A LADOK3 Python API

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Abstract

We provide a Python wrapper for the LADOK3 REST API. This wrapper provide a useful object-oriented framework for working with LADOK and direct API calls that return the unprocessed JSON data directly from LADOK.

We also provide a command-line interface (CLI) for the library. We then construct some useful (shell) scripts using this CLI. These scripts automates the reporting of results from Canvas to LADOK.

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Chapter 1

Introduction

LADOK (abbreviation of Lokalt Adb–baserat DOKumentationssystem, in Swedish) is the national documentation system for higher education in Sweden. This is the documented source code of `ladok3`, a LADOK3 API wrapper for Python.

The `ladok3` library provides a non-GUI application (a command-line interface, CLI) that, similar to access via a web browser, only provides the user with access to the LADOK data and functionality that they would actually have based on their specific user permissions in LADOK. It can be seem as a very streamlined web browser just for LADOK's web interface. While the library exploits caching to reduce the load on the LADOK server, this represents a subset of the information that would otherwise be obtained via LADOK's web GUI export functions.

You can install the `ladok3` package by running

```
1 python3 -m pip install ladok3 # to use it in Python, or
2 pipx install ladok3           # to just use the CLI
```

in the terminal.

Then you can use the CLI by running `ladok` in the terminal. The command has built-in help, simply run `ladok -h` to see the available commands. However, the first thing you want to run after installing the package is

```
3 ladok login
```

This will set up your credentials for the CLI. However, if you want to use the library in a script, you can read

```
4 ladok login -h
```

for alternative ways of providing your credentials.

For use in Python scripts, we provide the main class `LadokSession` (Section 9.1). The `LadokSession` class acts like 'factories' and will return objects representing various LADOK data. These data objects' classes inherit the `LadokData` (Section 9.2.1) and `LadokRemoteData` (Section 9.2.3) classes. Data of the type `LadokData` is not expected to change, unlike `LadokRemoteData`, which is. Objects of type `LadokRemoteData` know how to update themselves, i.e., fetch and refresh their data from LADOK. When relevant they can also write data to LADOK, i.e., update entries such as results.

One design criteria is to improve performance. We do this by caching all factory methods of any `LadokSession`. The `LadokSession` itself is also designed to be

cacheable: if the session to LADOK expires, it will automatically reauthenticate to establish a new session.

You can find a quick reference by running

```
pydoc ladok3 # doesn't work if installed with pipx
```

Part I

Example applications

Chapter 2

Transfer results from Canvas to LADOK

In this chapter we'll see some scripts for reporting results from Canvas to LADOK. These scripts are run as cronjobs. This means that they run unattended and only produce output when they need attention.

We want to report results for courses that are titled 'DD2520 VT25', 'DD1310 HT24', 'DD1317 HT24', and similar in Canvas. The advantage to using this command is that it will automatically report the correct dates and everyone who has participated in the grading of each student—as required by regulation. The official tools, like KTH Transfer to Ladok or SUNET's version of the same, don't do this. They don't set the dates correctly, meaning that each individual should have a separate date (date of submission). They also don't register the graders in LADOK. For each results, everyone who participated in the grading process should be registered in LADOK.

We'll have a script ⟨*ladok.sh* (never defined)⟩ that is run by `cron`. It's useful to load our profile, so that we have our normal environment.

4a ⟨*ladok.sh* 4a⟩≡

```
#!/bin/bash
. ${HOME}/.profile
```

This definition is continued in chunk 4b.
Root chunk (not used in this document).

We also want some helper functions and a main function that is only run when the script is run. If the script is sourced, the main function is not run. This way we can use the helper functions in our terminal.

The design is that all functions output lines expected by `ladok report`. This way, we can simply pipe the output of the main function to `ladok report -fv` to report them. This also makes it easy to debug the script by running it in the terminal and seeing what it would report.

4b ⟨*ladok.sh* 4a⟩+≡

```
⟨constants 5a⟩
⟨helper functions 8b⟩

main() {
  ⟨main script 5b⟩
}
```

```
# Only run if this is the main script
if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
  main "$@" | ladok report -fv
fi
```

We need to report more than once for a course. All students might not be done by the time of reporting. When they're done, we must report the results again[1]. Sometimes a student finishes a course years after it ended. To speed up execution it's better to report results for a sliding window of courses, instead of all courses. For those rare cases when a student finishes a course years after it ended, we can report the results manually for that course again—by importing and invoking the functions below in the terminal.

[1] And students have a right to do this without having to reregister on a later course round.

We'll let `YEARS` be a regex for the years that we're interested in reporting for. We'll use the current year and the previous year. The advantage of this window is that when we pass new year's eve, the autumn courses are still current for a few weeks—but the year is the wrong one. As a side effect, during autumn we report results for any late results for the previous year too.

To construct the regex for years, we simply take a sequence of years (`24 25`) and make a regex (`(24|25)`) out of it.

5a ⟨*constants* 5a⟩≡

```
YEAR=$(date +%y)
LOOKBACK=5
YEARS=$(echo -n "("; \
        seq $((YEAR - $LOOKBACK)) $YEAR \
        | sed -zE "s/\s/|/g" \
        | sed "s/|$/)/")
```

This code is used in chunk 4b.

2.1 Reporting results on course components

We want a script that reports the results for all courses, including all previous years, to LADOK. We want to do this for previous years as sometimes they finish assignments years after the course ended.

We'll add a function that takes a course regex and a component regex and reports the results to LADOK. To report the modules, we sometimes need to override the default summary function of `canvaslms`[2]. We want something like ⟨*main script* 5b⟩ below.

[2] For details on `canvaslms results`, see Chapters 10 and 11 in its documentation, found on https://github.com/dbosk/canvaslms/releases/tag/v4.7. Particularly Chapter 11 discusses the summary modules. You can also read `pydoc canvaslms.grades` for a more brief summary.

2.1.1 DD1301 datintro

For the datintro course (DD1301), we simply have four lab assignments in the assignment group LAB1. LAB1 is the only course component in LADOK.

5b ⟨*main script* 5b⟩≡

```
# datintro
report_components "DD1301 HT${YEARS}" \
                  LAB1
```

This definition is continued in chunks 6–9.
This code is used in chunk 4b.

2.1.2 DD1317 prgi

For the prgi (DD1317) course we have four components: KAL1, LAB1, LAB2 and LAB3. In the old version of the course (DD1315), we had MAT1 instead of KAL1.

The LAB1, MAT1 and KAL1 components each contain lab assignments. The students must pass all of them for a grade.

6a ⟨*main script* 5b⟩+≡

```
# prgi
# labs
report_components "DD1317 HT${YEARS}" \
                  "LAB1"
report_components "DD1317 HT${YEARS}" \
                  "KAL1"
```

This code is used in chunk 4b.

The LAB2 component is just an exam. In some older versions it also contains a mandatory survey to get a date in the last week of the course in LADOK. In some versions we also have multiple assignments, one for each time the exam was given (hence maxgradesurvey); but in newer we reuse the same assignment for all re-exams.

6b ⟨*main script* 5b⟩+≡

```
# datorprov with optional survey
report_components "DD1317.*LAB2.*${YEARS}" \
                  LAB2 \
                  canvaslms.grades.maxgradesurvey
```

This code is used in chunk 4b.

However, now we have that mandatory survey in the LAB3 component with the project that the students finish last. This project contains three parts:

(1) the specification (P/F),

(2) the peer review (P/F),

(3) the presentation of the project (A–F grades), and

(4) the mandatory survey (numerical).

We use the `canvaslms.grades.conjunctavgsurvey` summary module to get the final grade to be the A–F grade of the presentation, but only if the specification, peer review and survey are all passed.

6c ⟨*main script* 5b⟩+≡

```
# p-uppgift with optional survey
report_components "DD1317 HT${YEARS}" \
                  LAB3 \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

2.1.3 DD1315 prgi2[0-3]

For the old version of the course, we simply have MAT1 instead of KAL1. And there was no mandatory survey. But we run it for a fixed number of years.

7a ⟨*main script* 5b⟩+≡
```
report_components "DD1315 HT2[0-3]" \
                  "LAB1"
report_components "DD1315 HT2[0-3]" \
                  "MAT1"
report_components "DD1315 HT2[0-3]" \
                  "LAB3"
```
This code is used in chunk 4b.

We don't need to run LAB2 for it, because they have to reregister for the newer course to do LAB2.

2.1.4 DA2215 vetcyb

For vetcyb (DA2215) we have one component: INL1. It's just a few P/F-assignments and a mandatory survey.

7b ⟨*main script* 5b⟩+≡
```
# vetcyb
report_components "DA2215 [HV]T${YEARS}" \
                  INL1 \
                  canvaslms.grades.conjunctavgsurvey
```
This code is used in chunk 4b.

However, we also want to report the 'Participation INL1'. But that would require us to rewrite the name of the group to just INL1, so we need to use the `report_alt_components` function. Also, we need to use the `canvaslms.grades.participation` summary module to get the participation grade (since those assignments consist only of complete/incomplete and 0–100 grades).

7c ⟨*main script* 5b⟩+≡
```
# vetcyb participation
report_alt_components "DA2215 [HV]T${YEARS}" \
                      "Participation INL1" INL1 \
                      canvaslms.grades.participation
```
This code is used in chunk 4b.

2.1.5 DD2520 tilkry

For tilkry (DD2520) we have two components: INL1 and LAB1. The INL1 component is just a few P/F-assignments. The LAB1 component is a set of mandatory and optional assignments. The number of optional assignments (and their grades) determine the final grade. So it has a custom summary module: `canvaslms.grades.tilkryLAB1`.

7d ⟨*main script* 5b⟩+≡
```
# tilkry
report_components "DD2520 VT${YEARS}" \
                  INL1
report_components "DD2520 VT${YEARS}" \
                  LAB1 \
```

```
                    canvaslms.grades.tilkryLAB1
```

This code is used in chunk 4b.

Finally, let's do this also for the courses that I have given previous years.

8a ⟨*main script* 5b⟩+≡

```
# tidigare kurser
# DD1310 - prgm2[1-5]
report_components "DD1310 HT2[1-5]" \
                  "LAB1"
report_components "DD1310 HT2[1-5]" \
                  "LAB3" \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

2.2 Getting component results from Canvas to LADOK

To get the results out of Canvas we'll use the `canvaslms results` command. We must install the `canvaslms` tool. We can do this by running:

```
1 python3 -m pip install canvaslms # to use it with Python, or
2 pipx install canvaslms           # to only use the CLI
3 canvaslms login                  # or read `canvaslms login --help`
```

For details on how to extract the results, read `canvaslms results --help` (also read Footnote 2 on page 5).

Course codes always have the same structure, so they're easy to replace. But sometimes we also want to replace the component name with the desired component name in LADOK.

8b ⟨*helper functions* 8b⟩≡

```
report_alt_components() {
  local course="$1"
  local component="$2"
  local desired_component="$3"
  local summary_module="$4"

  local summary_opt=""
  if [[ -n "$summary_module" ]]; then
    summary_opt="-S $summary_module"
  fi

  # Get the course results from Canvas.
  canvaslms results -c "$course" -A "$component" $summary_opt \
  | ⟨change course column to only course code 9b⟩ \
  | ⟨rename the component column to the desired component 9c⟩
}
```

This definition is continued in chunks 9a and 10a.
This code is used in chunk 4b.

However, let's also add a version where the component name is the same. This will be used most of the time.

9a ⟨*helper functions* 8b⟩+≡
```
report_components() {
  local course="$1"
  local component="$2"
  local summary_module="$3"

  report_alt_components "$course" "$component" "$component" "$summary_module"
}
```
This code is used in chunk 4b.

The course code the is the first column of the output from `canvaslms results`. The course code is the first word, separated from the rest by a space. So we simply drop everything after the first space.

9b ⟨*change course column to only course code* 9b⟩≡
```
awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }'
```
This code is used in chunk 8b.

We can do something similar for the component column, but we simply replace it with the desired component name.

9c ⟨*rename the component column to the desired component* 9c⟩≡
```
awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
```
This code is used in chunk 8b.

2.3 Reporting course grade

Now we can set the course grades based on the reported components. We'll have to report one course at a time since the course grade is based on different components in different courses.

We'll use the LADOK data to solve this. This means that when the code above is run, it outputs what `ladok report` should put in LADOK. That means that if anyone there completes the course, we will not see it here. However, that's only good: we can't use those results anyway until they're certified/attested in LADOK.

We simply do this for *all rounds*: We look for students who have no grade on the course, then we look if they have a grade on the component, and if they do, we report that as the course grade. We'll fail for those who have not yet finished the other components of the course or those whose results are not yet attested, but that's acceptable. Then we get an overview of who has leftovers. However, we can actually filter those out by looking at the latest date of any component—which we'll need anyway for the date of the course.

9d ⟨*main script* 5b⟩+≡
```
report_course DD1315 LAB3
report_course DD1317 LAB3
report_course DD2520 LAB1
```
This code is used in chunk 4b.

We don't need to report the course grade for the other courses since they have only one component. For courses with only one component, LADOK will automatically set the course grade based on the grade of the single component.

This approach makes for a simpler implementation of `report_course`. We simply extract the course data using `ladok course -l` and then filter it using `awk`. The output data from `ladok course -l` has the following columns (tab separated):

```
1 course_code  round_code  component  student  grade  date
```

The `-l` option gives us the student's LADOK identifier instead of name.

The course grade is given by the component being the same as the course code. If the course grade is empty but the grade of the component we're interested in is not empty, we report the component grade as the course grade. So we can filter out whoever has no course grade (`-` in the grade column). Then we filter out who of those have a grade on the component.

As for the grade, we need the newest grade on any component for a student. This also allows us to filter out students who have not yet finished all components of the course. The dates are in ISO format (YYYY-MM-DD), so sorting them lexicographically works. If there is no result on a component, the date is blank.

Finally, we report those to LADOK.

10a ⟨*helper functions* 8b⟩+≡

```
report_course() {
  local course="$1"
  local component="$2"

  ladok course -l "$course" \
  | awk -F '\t' -v OFS='\t' \
        -v comp="$component" \
        -v course="$course" \
    '{
       ⟨store course and component grades and dates 10b⟩
     }
     END {
           ⟨print students with component grade but no course grade 11b⟩
      }'
}
```

This code is used in chunk 4b.

We check for the course grade and store if it exists.

10b ⟨*store course and component grades and dates* 10b⟩≡

```
if ($3 == $1) {
  course_grade[$4]=$5
}
```

This definition is continued in chunks 10c and 11a.
This code is used in chunk 10a.

Then we check for the component grade and store it if it exists.

10c ⟨*store course and component grades and dates* 10b⟩+≡

```
else if ($3 == comp) {
  component_grade[$4]=$5
}
```

This code is used in chunk 10a.

We also store the latest date for *any* component. Here we also want to unset the grade date if there is a date that is blank—since that means one component is not yet finished. However, we should only do that for components, not the course grade.

If we find a blank date, we set the date to `-`. This way we can be sure to distinguish between the first and second time we look at dates. We do the same for assignments.

11a ⟨*store course and component grades and dates* 10b⟩+≡

```
if ($3 != $1) {
  if ($5 == "-" || $5 == "" || $6 == "")
    component_date[$4] = "-"
  else if (component_date[$4] != "-" && $6 > component_date[$4])
    component_date[$4] = $6
}
```

This code is used in chunk 10a.

Now we want to print the students who have a component grade but no course. But only if they also have a valid date (not `-`). And we want to print them in the format required by `ladok report`:

```
1 course_code  course_code  student  grade  date
```

11b ⟨*print students with component grade but no course grade* 11b⟩≡

```
for (student in component_grade) { \
  if (course_grade[student] == "-" \
      && component_grade[student] != "-" \
      && component_date[student] != "-")
  {
    print course, course, student, component_grade[student], \
                                   component_date[student]
  }
}
```

This code is used in chunk 10a.

2.4 The script as a whole

```
#!/bin/bash
. ${HOME}/.profile
YEAR=$(date +%y)
LOOKBACK=5
YEARS=$(echo -n "("; \
        seq $((YEAR - $LOOKBACK)) $YEAR \
        | sed -zE "s/\s/|/g" \
        | sed "s/|$/)/")
report_alt_components() {
  local course="$1"
  local component="$2"
  local desired_component="$3"
  local summary_module="$4"

  local summary_opt=""
  if [[ -n "$summary_module" ]]; then
```

```
    summary_opt="-S $summary_module"
  fi

  # Get the course results from Canvas.
  canvaslms results -c "$course" -A "$component" $summary_opt \
  | awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }' \
  | awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
}
report_components() {
  local course="$1"
  local component="$2"
  local summary_module="$3"

  report_alt_components "$course" "$component" "$component" "$summary_module"
}
report_course() {
  local course="$1"
  local component="$2"

  ladok course -l "$course" \
  | awk -F '\t' -v OFS='\t' \
        -v comp="$component" \
        -v course="$course" \
    '{
       if ($3 == $1) {
         course_grade[$4]=$5
       }
       else if ($3 == comp) {
         component_grade[$4]=$5
       }
       if ($3 != $1) {
         if ($5 == "-" || $5 == "" || $6 == "")
           component_date[$4] = "-"
         else if (component_date[$4] != "-" && $6 > component_date[$4])
           component_date[$4] = $6
       }
     }
     END {
           for (student in component_grade) { \
             if (course_grade[student] == "-" \
                 && component_grade[student] != "-" \
                 && component_date[student] != "-")
             {
               print course, course, student, component_grade[student], \
                                              component_date[student]
             }
           }
         }'
}

main() {
```

```
68    # datintro
69    report_components "DD1301 HT${YEARS}" \
70                      LAB1
71    # prgi
72    # labs
73    report_components "DD1317 HT${YEARS}" \
74                      "LAB1"
75    report_components "DD1317 HT${YEARS}" \
76                      "KAL1"
77    # datorprov with optional survey
78    report_components "DD1317.*LAB2.*${YEARS}" \
79                      LAB2 \
80                      canvaslms.grades.maxgradesurvey
81    # p-uppgift with optional survey
82    report_components "DD1317 HT${YEARS}" \
83                      LAB3 \
84                      canvaslms.grades.conjunctavgsurvey
85    report_components "DD1315 HT2[0-3]" \
86                      "LAB1"
87    report_components "DD1315 HT2[0-3]" \
88                      "MAT1"
89    report_components "DD1315 HT2[0-3]" \
90                      "LAB3"
91    # vetcyb
92    report_components "DA2215 [HV]T${YEARS}" \
93                      INL1 \
94                      canvaslms.grades.conjunctavgsurvey
95    # vetcyb participation
96    report_alt_components "DA2215 [HV]T${YEARS}" \
97                          "Participation INL1" INL1 \
98                          canvaslms.grades.participation
99    # tilkry
100   report_components "DD2520 VT${YEARS}" \
101                     INL1
102   report_components "DD2520 VT${YEARS}" \
103                     LAB1 \
104                     canvaslms.grades.tilkryLAB1
105   # tidigare kurser
106   # DD1310 - prgm2[1-5]
107   report_components "DD1310 HT2[1-5]" \
108                     "LAB1"
109   report_components "DD1310 HT2[1-5]" \
110                     "LAB3" \
111                     canvaslms.grades.conjunctavgsurvey
112   report_course DD1315 LAB3
113   report_course DD1317 LAB3
114   report_course DD2520 LAB1
115 }
116
117 # Only run if this is the main script
118 if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
```

```
119   main "$@" | ladok report -fv
120 fi
```

Chapter 3

Transfer results from Canvas to LADOK in Python

Here we provide an example program `canvas2ladok.py` which exports results from Canvas to LADOK for the introductory programming course DD1315.

However, a better way to do this is by using the CLI (see Chapter 2 for an even better version):

```
#!/bin/bash

. ${HOME}/.profile

year=22
courses="DD13(10HT${year}|17HT${year})"
components="(LAB[123]|MAT1|KAL1)"

canvaslms results -c "$courses" -A "$components" \
| sed -E "s/ ?[HV]T[0-9]{2}( \(.*\))?//" \
| ladok report -fv
```

But now we'll have a look at how we can do this (well, a simpler version) in Python.

3.1 Overview

We want to get results out of Canvas and put them into LADOK. We want to take each assignment group in Canvas and map into a course component in LADOK. *Assumption*: we assume that all assignments in the Canvas course instance are grouped; and each group must map exactly to the names of the LADOK components.

The course components in LADOK (and assignment groups in Canvas) for the DD1315 course are

- LAB1,
- LAB2,
- LAB3,
- MAT1[1].

[1] URL: https://www.kth.se/student/kurser/kurs/DD1315

The LAB3 component corresponds to a project. In Canvas, it has P/F assignments (e.g., presentation) and one A–F assignment (the project itself). The component grade is based on the project itself, but the other assignments each must have a P too.

For now we will ignore setting the grade on the full course.

When running the program we must have the following environment variables set:

- `LADOK_LOGIN` and `LADOK_PASSWD` which hold the credentials for LADOK (or KTH CAS).
- `CANVAS_SERVER` and `CANVAS_TOKEN` to point to the Canvas server to use and a token to authenticate.

We provide a Docker image for running this program.

3.1.1 Building files

We provide the following files:

- ⟨*canvas2ladok.mk* 16⟩.
- ⟨*Dockerfile* 17a⟩,
- ⟨*canvas2ladok.py* (never defined)⟩,

We provide an include file for GNU make to build all the targets.

16 ⟨*canvas2ladok.mk* 16⟩≡

```
.PHONY: all
all: canvas2ladok.py canvas2ladok

.PHONY: canvas2ladok
canvas2ladok: canvas2ladok.py Dockerfile
  docker build -t canvas2ladok .

Dockerfile: canvas2ladok.nw
  ${NOTANGLE}

.PHONY: clean
clean:
  ${RM} canvas2ladok.pdf canvas2ladok.py
  ${RM} Dockerfile canvas2ladok.mk

.PHONY: distclean
distclean:
  -docker image rm canvas2ladok
```

Root chunk (not used in this document).

The Docker image will just contain the `canvas2ladok.py` file and run it by default.

17a ⟨*Dockerfile* 17a⟩≡

```
FROM dbosk/ladok3

RUN pip install --no-cache-dir canvasapi
COPY canvas2ladok.py ./

CMD ["python", "./canvas2ladok.py"]
```

Root chunk (not used in this document).

3.2 `canvas2ladok.py`: configuration and dependencies

We use the standard structure for the script. We start with the imports and set up our `ladok` and `canvas` objects, these are used to access the two systems.

17b ⟨*canvas2ladok.py* 17b⟩≡

```
import cachetools
from canvasapi import Canvas
import collections
import datetime
import ladok3
import os
import re

LOGIN = os.environ["LADOK_USER"]
PASSWD = os.environ["LADOK_PASS"]

ladok = ladok3.LadokSession("KTH",
                            vars={"username": LOGIN, "password": PASSWD},
                            test_environment=False) # for experiments

API_URL = os.environ["CANVAS_SERVER"]
API_KEY = os.environ["CANVAS_TOKEN"]

canvas = Canvas(API_URL, API_KEY)

course_code_ladok = "DD1315"
# We match all course round HT20 and onwards
course_code_canvas = "DD1315[HV]T[2-9][0-9]"
components = [
  "LAB1",
  "LAB2",
  "LAB3",
  "MAT1"
]

⟨classes 19b⟩
⟨functions 18a⟩

def main():
```

⟨*main body* 18d⟩

```
if __name__ == "__main__":
  main()
```

Root chunk (not used in this document).

3.3 Getting the results out of Canvas

We must first select the course. We do this my matching against a regular expression.

18a ⟨*functions* 18a⟩≡

```
@cachetools.cached(cache={})
def get_courses(code):
  pattern = re.compile(code)

  for course in canvas.get_courses():
    if pattern.match(course.course_code):
      yield course

  return None
```

This definition is continued in chunks 18–21.
This code is used in chunk 17b.

We must process each assignment group (which corresponds to a LADOK component). So we get all relevant objects from Canvas.

18b ⟨*functions* 18a⟩+≡

```
def get_components(course):
  for component in course.get_assignment_groups():
    if component.name in components:
      yield component
```

This code is used in chunk 17b.

For each component, we must check which students passed all assignments; we must report the student's LADOK identifier, what grade they should have and the time of submission of the assignment.

18c ⟨*functions* 18a⟩+≡

```
def students_results(course, component):
  ⟨produce results for a component 21b⟩
```

This code is used in chunk 17b.

We cover the details in Section 3.6, once we've covered what LADOK needs in Section 3.5.

3.4 The main body

Then we can report those results to LADOK. In summary, we do the following:

18d ⟨*main body* 18d⟩≡

```
for course in get_courses(course_code_canvas):
  for component in get_components(course):
    print(f"{course.course_code} {component.name}")
    component_results = students_results(course, component)
```

```
    report_results(course_code_ladok, component.name, component_results)
```
This code is used in chunk 17b.

3.5 Putting the results into LADOK

We get a list of results for a component. We simply try to report them to LADOK.

19a ⟨*functions* 18a⟩+≡
```
def report_results(course_code, component_name, results):
  for result in results:
    try:
      student = ladok.get_student(result.person_nr)
      course = student.courses(code=course_code)[0]
      component = course.results(component=component_name)[0]
      if not component.attested:
        component.set_grade(result.grade, result.date)
        component.finalize()
      elif component.grade != result.grade:
        print(f"{student}: attested {component.component} "
          f"result {component.grade} is different from {result.grade}.")
    except Exception as err:
      try:
        print(f"{student}: {err}")
      except ValueError as verr:
        print(f"{verr}: {result.person_nr}: {err}")
```
This code is used in chunk 17b.

3.6 Producing the list of results

We need the result to have the following data:

19b ⟨*classes* 19b⟩≡
```
Result = collections.namedtuple(
  "Result", ["person_nr", "date", "grade", "grade_scale"])
```
This definition is continued in chunk 19c.
This code is used in chunk 17b.

Now, given a `component`, we should produce such `Result` tuples.

3.6.1 Produce gradebook

To do this, we must first produce a gradebook that we can filter. The gradebook will use the simpler `Grade` tuple. It will use the student's LADOK ID as the key.

19c ⟨*classes* 19b⟩+≡
```
Grade = collections.namedtuple("Grade", ["grade", "date"])
```
This code is used in chunk 17b.

To create the gradebook, we will first fetch all the users and then fetch all the submissions. Then we will map them together. This way we only need two requests to Canvas, instead of one per user.

20a ⟨*functions* 18a⟩+≡

```
def make_gradebook(course, component):
  gradebook = {}

  users_by_id = {}
  for user in course.get_users(enrollment_type=["student"]):
    users_by_id[user.id] = user
    gradebook[user.integration_id] = {}

  for assignment in assignments_in_component(course, component):
    for submission in assignment.get_submissions():
      try:
        user = users_by_id[submission.user_id].integration_id
      except KeyError:
        # This only happens for the Test Student
        continue

      if not submission.graded_at:
        gradebook[user][assignment.name] = None
        continue

      date = submission.submitted_at or submission.graded_at
      date = datetime.date.fromisoformat(date.split("T")[0]) or None
      graded_date = datetime.date.fromisoformat(
        submission.graded_at.split("T")[0])
      if date > graded_date:
        date = graded_date

      gradebook[user][assignment.name] = \
        Grade(grade=submission.grade, date=date)

  return gradebook
```

This code is used in chunk 17b.

Note that for some users, we won't get any submission. And for some other users, we get a submission with no grade and no date.

We the component object doesn't give the assignments it include. We must check each assignment if it belongs to the component or not.

20b ⟨*functions* 18a⟩+≡

```
def assignments_in_component(course, component):
  return filter(
    lambda assignment: assignment.assignment_group_id == component.id,
    course.get_assignments())
```

This code is used in chunk 17b.

3.6.2 Assignment grades to component grade

Next, we must filter the gradebook so that only the students who passed all assignments are reported to LADOK with a pass. A student must pass all assignments, the latest date sets the date to use in LADOK. *Assumption:* If some assignments are P/F and some are A–F, then the A–F one should be the grade. There will not be more than one A–F assignment per component.

21a ⟨*functions* 18a⟩+≡

```
def summarize(grades):
  max_grade = "P"
  grade_scale = "PF"
  max_date = datetime.date(year=1970, month=1, day=1)
  for _, grade in grades.items():
    if grade is None or grade.grade is None or grade.grade[0] == "F":
      return None

    if grade.date > max_date:
      max_date = grade.date

    if grade.grade in "ABCDE":
      max_grade = grade.grade
      grade_scale = "AF"

  return (Grade(grade=max_grade, date=max_date), grade_scale)
```

This code is used in chunk 17b.

3.6.3 Convert to LADOK result form

Lastly, we must put these things together and convert the result to the `Result` format that we need.

21b ⟨*produce results for a component* 21b⟩≡

```
to_report = []
gradebook = make_gradebook(course, component)

for ladok_id, grades in gradebook.items():
  try:
    grade, grade_scale = summarize(grades)
  except TypeError as err:
    # Only happens for students who are not done
    continue

  to_report.append(Result(
    person_nr=ladok.get_student(ladok_id).personnummer,
    grade=grade.grade,
    grade_scale=grade_scale,
    date=grade.date))

return to_report
```

This code is used in chunk 18c.

3.7 The script as a whole

```
import cachetools
from canvasapi import Canvas
import collections
import datetime
import ladok3
import os
import re

LOGIN = os.environ["LADOK_USER"]
PASSWD = os.environ["LADOK_PASS"]

ladok = ladok3.LadokSession(
    "KTH", vars={"username": LOGIN, "password": PASSWD}, test_environment=False
)  # for experiments

API_URL = os.environ["CANVAS_SERVER"]
API_KEY = os.environ["CANVAS_TOKEN"]

canvas = Canvas(API_URL, API_KEY)

course_code_ladok = "DD1315"
# We match all course round HT20 and onwards
course_code_canvas = "DD1315[HV]T[2-9][0-9]"
components = ["LAB1", "LAB2", "LAB3", "MAT1"]

Result = collections.namedtuple("Result", ["person_nr", "date", "grade", "grade_scale"])
Grade = collections.namedtuple("Grade", ["grade", "date"])


@cachetools.cached(cache={})
def get_courses(code):
    pattern = re.compile(code)

    for course in canvas.get_courses():
        if pattern.match(course.course_code):
            yield course

    return None


def get_components(course):
    for component in course.get_assignment_groups():
        if component.name in components:
            yield component


def students_results(course, component):
    to_report = []
    gradebook = make_gradebook(course, component)
```

```
50
51      for ladok_id, grades in gradebook.items():
52          try:
53              grade, grade_scale = summarize(grades)
54          except TypeError as err:
55              # Only happens for students who are not done
56              continue
57
58          to_report.append(
59              Result(
60                  person_nr=ladok.get_student(ladok_id).personnummer,
61                  grade=grade.grade,
62                  grade_scale=grade_scale,
63                  date=grade.date,
64              )
65          )
66
67      return to_report
68
69
70  def report_results(course_code, component_name, results):
71      for result in results:
72          try:
73              student = ladok.get_student(result.person_nr)
74              course = student.courses(code=course_code)[0]
75              component = course.results(component=component_name)[0]
76              if not component.attested:
77                  component.set_grade(result.grade, result.date)
78                  component.finalize()
79              elif component.grade != result.grade:
80                  print(
81                      f"{student}: attested {component.component} "
82                      f"result {component.grade} is different from {result.grade}."
83                  )
84          except Exception as err:
85              try:
86                  print(f"{student}: {err}")
87              except ValueError as verr:
88                  print(f"{verr}: {result.person_nr}: {err}")
89
90
91  def make_gradebook(course, component):
92      gradebook = {}
93
94      users_by_id = {}
95      for user in course.get_users(enrollment_type=["student"]):
96          users_by_id[user.id] = user
97          gradebook[user.integration_id] = {}
98
99      for assignment in assignments_in_component(course, component):
100         for submission in assignment.get_submissions():
```

```
            try:
                user = users_by_id[submission.user_id].integration_id
            except KeyError:
                # This only happens for the Test Student
                continue

            if not submission.graded_at:
                gradebook[user][assignment.name] = None
                continue

            date = submission.submitted_at or submission.graded_at
            date = datetime.date.fromisoformat(date.split("T")[0]) or None
            graded_date = datetime.date.fromisoformat(
                submission.graded_at.split("T")[0]
            )
            if date > graded_date:
                date = graded_date

            gradebook[user][assignment.name] = Grade(grade=submission.grade, date=date)

    return gradebook


def assignments_in_component(course, component):
    return filter(
        lambda assignment: assignment.assignment_group_id == component.id,
        course.get_assignments(),
    )


def summarize(grades):
    max_grade = "P"
    grade_scale = "PF"
    max_date = datetime.date(year=1970, month=1, day=1)
    for _, grade in grades.items():
        if grade is None or grade.grade is None or grade.grade[0] == "F":
            return None

        if grade.date > max_date:
            max_date = grade.date

        if grade.grade in "ABCDE":
            max_grade = grade.grade
            grade_scale = "AF"

    return (Grade(grade=max_grade, date=max_date), grade_scale)


def main():
    for course in get_courses(course_code_canvas):
        for component in get_components(course):
```

```
152             print(f"{course.course_code} {component.name}")
153             component_results = students_results(course, component)
154             report_results(course_code_ladok, component.name, component_results)
155
156
157 if __name__ == "__main__":
158     main()
```

Part II

The command-line interface

Chapter 4

The base interface

This is the documentation of the command-line interface module (`cli`) of the `ladok3` package, ⟨*cli.py* (never defined)⟩.

The command-line interface is divided into subcommands, similar to Git. Currently, we provide the following commands:

data The command outputs all results for all rounds of a course in CSV format.

4.1 Overview of the source code and dependencies

We use `argparse` with `argcomplete` to handle the command-line interface. We use `appdirs` to handle configuration directories on various systems, we set up a global `dirs` that we can use.

27 ⟨*cli.py* 27⟩≡

```
#!/bin/env python3
"""A command-line interface for LADOK 3"""

import appdirs
import argcomplete, argparse
import base64
from cryptography.fernet import Fernet
from cryptography.hazmat.primitives import hashes
from cryptography.hazmat.primitives.kdf.pbkdf2 import PBKDF2HMAC
import getpass
import json
import keyring
import ladok3
import os
import pickle
import re
import sys
import traceback
import weblogin
import weblogin.ladok
import weblogin.seamlessaccess as sa
```

⟨*modules* 41b⟩

```
dirs = appdirs.AppDirs("ladok", "dbosk@kth.se")
```

⟨*functions* 28b⟩
⟨*command-line interface* 28a⟩
Root chunk (not used in this document).

4.2 A command-line interface

The idea is that we have the basic command that can take some options and ultimately some subcommand. The subcommands do the heavy lifting. We use a standard Pythonic if-main construction.

28a ⟨*command-line interface* 28a⟩≡

```
def main():
  """Run the command-line interface for the ladok command"""
  ⟨process command-line options 29a⟩

if __name__ == "__main__":
  try:
    main()
    sys.exit(0)
  except Exception as e:
    err(-1, e)
```

This code is used in chunk 27.

We want uniform error handling. We will use the function `err` for errors and `warn` for warnings, both inspired by err(3) and warn(3) in the BSD world.

28b ⟨*functions* 28b⟩≡

```
def err(rc, msg):
  """Print error message to stderr and exit with given return code.

  Args:
      rc (int): Return code to exit with.
      msg (str): Error message to display.
  """
  print(f"{sys.argv[0]}: error: {msg}", file=sys.stderr)
  sys.exit(rc)

def warn(msg):
  """Print warning message to stderr.

  Args:
      msg (str): Warning message to display.
  """
  print(f"{sys.argv[0]}: {msg}", file=sys.stderr)
```

This definition is continued in chunks 30a, 31b, 35b, 37a, 38a, and 41a.
This code is used in chunk 27.

4.2.1 Process command-line options

The main part done here is to set up a `LadokSession` object `ls`. We can do this in two ways: (1) create a new object using the user's credentials to log in; or (2) restore the `ls` object from a previous run.

We'll use `argparse` to parse the command-line options.

29a ⟨*process command-line options* 29a⟩≡

```
argp = argparse.ArgumentParser(
  description="This is a CLI-ification of LADOK3's web GUI.",
  epilog="Copyright (c) 2020 Alexander Baltatzis, Gerald Q. Maguire Jr.; "
         "2021--2026 Daniel Bosk. "
         "Licensed under MIT. "
         "Web: https://github.com/dbosk/ladok3"
)
⟨add global configuration options 33b⟩
subp = argp.add_subparsers(
  title="commands",
  dest="command",
  required=True
)
⟨add subparsers to subp 34⟩
argcomplete.autocomplete(argp)
args = argp.parse_args()
⟨create or restore the LadokSession ls 30b⟩
⟨execute subcommand 29b⟩
⟨save LadokSession ls 31a⟩
```

This code is used in chunk 28a.

For each subcommand, we will add a subparser (`subp.add_parser`) that will set the `func` attribute. Then we can execute the correct function and let that function check the remaining arguments. We must also pass on a LADOK session object `ls`.

We note, however, that some subcommands (like `cache` or `login`) don't need the `ls`. The command `login` in particular is expected to run before the `ls` object can be constructed (no credentials exist). The reason this works is that we can create the `ls` object with `None` for credentials, the failure will not happen until we make the first request. The first request is made by the command's function, which in the case of `login` never uses `ls`.

29b ⟨*execute subcommand* 29b⟩≡

```
if "func" in args:
  args.func(ls, args)
```

This code is used in chunk 29a.

4.3 Create the LadokSession `ls`

We have several options for creating the LadokSession object `ls` that must be passed to the subcommand:

(1) The first one is to read the user's credentials (from the keyring, environment or configuration) and create the `ls` object by instantiating the `LadokSession` class.

(2) Read a pickled `LadokSession` object from file.

The second option allows us to save time by not having to reestablish an authenticated session to LADOK. The authentication step takes much more time than individual LADOK requests.

We want to handle authentication for all universities. This means that we must keep track of two things, the institution and the user's credentials[1] at that institution. When we create the LADOK session object, we must supply those credentials to the `weblogin.ladok.SSOlogin` login handler.

[1] Which is usually a username and a password.

This leads to the following approach. `LADOK_INST` is simply a string identifying the institution at SeamlessAccess.org (see documentation of `weblogin`) and `LADOK_VARS` is a dictionary where the keys map to variable names and the values should be substituted in the login forms (see documentation of `weblogin`). We use `LADOK_VARS` as credentials, since it contains the credentials.

The session lifecycle—load credentials, try to restore a cached session, fall back to a fresh `LadokSession`—is shared with the module-level `ladok3.session` attribute. We cannot have the CLI use `ladok3.session` directly, because the CLI needs to pass a custom `config_file` path and because the `login` command must work even without credentials. Instead, we factor the shared lifecycle into `get_session`, which both the CLI and `ladok3.session` call.

30a ⟨*functions* 28b⟩+≡

```
def get_session(config_file=None):
  """Load or create a LadokSession from available credentials.

  Tries to restore a cached session first; if unavailable, creates a fresh
  one from credentials. Returns a tuple of (session, credentials).

  Args:
      config_file (str or None): Path to configuration file, or None for
          default.

  Returns:
      tuple: (LadokSession, credentials) where credentials is a dict.

  Raises:
      ValueError: If a cached session exists but cannot be decrypted.
  """
  institution, credentials = load_credentials(config_file)
  session = restore_ladok_session(credentials)
  if not session:
    session = ladok3.LadokSession(institution, vars=credentials)
  return session, credentials
```

This code is used in chunk 27.

The CLI calls `get_session` with the user-supplied config file path. We catch `ValueError` separately because it indicates a corrupted or unreadable cache—the user should know about that rather than silently creating a new session.

30b ⟨*create or restore the LadokSession ls* 30b⟩≡

```
try:
  ls, LADOK_VARS = get_session(args.config_file)
except ValueError as error:
  err(-1, f"Couldn't restore LADOK session: {error}")
```

This code is used in chunk 29a.

31a ⟨*save LadokSession ls* 31a⟩≡
```
store_ladok_session(ls, LADOK_VARS)
```
This code is used in chunk 29a.

4.3.1 Saving and restoring the `LadokSession` object

Now we need to implement the `store_ladok_session` and `restore_ladok_session` functions. We will use `pickle` for storing and restoring the object. But we also want to encrypt the stored object using authenticated encryption. That way, we know that we can trust the pickle (which is otherwise a problem).

31b ⟨*functions* 28b⟩+≡
```
def store_ladok_session(ls, credentials):
  """Store a LadokSession object to disk with encryption.

  Saves the session object as an encrypted pickle file in the user's cache directory.
  The credentials are used to derive an encryption key for security.

  Args:
      ls (LadokSession): The session object to store.
      credentials (tuple): Tuple of (institution, vars) used for key derivation.

  Raises:
      ValueError: If credentials are missing or invalid.
  """
  if not os.path.isdir(dirs.user_cache_dir):
    os.makedirs(dirs.user_cache_dir)

  file_path = dirs.user_cache_dir + "/LadokSession"

  pickled_ls = pickle.dumps(ls)
  ⟨encrypt pickled ls 32a⟩

  with open(file_path, "wb") as file:
    file.write(encrypted_ls)

def restore_ladok_session(credentials):
  """Restore a LadokSession object from disk.

  Attempts to load and decrypt a previously stored session object. Returns None
  if no cached session exists or decryption fails.

  Args:
      credentials (tuple): Tuple of (institution, vars) used for key derivation.

  Returns:
      LadokSession or None: The restored session object, or None if unavailable.
  """
  file_path = dirs.user_cache_dir + "/LadokSession"
```

```
    if os.path.isfile(file_path):
      with open(file_path, "rb") as file:
        encrypted_ls = file.read()
        ⟨decrypt encrypted ls 32b⟩
        if pickled_ls:
          return pickle.loads(pickled_ls)

    return None
```

This code is used in chunk 27.

We don't want to only encrypt the object, we also want to provide integrity for the object. This is to avoid any vulnerabilities with `pickle`. We use the `cryptography` module to handle the encryption. In particular, we use the `cryptography.fernet` protocol which encrypts using AES and signs using HMAC.

We will use the user's LADOK password to generate a cryptographic key. Then we do the encryption/decryption.

32a ⟨*encrypt pickled ls* 32a⟩≡

```
  ⟨set up kdf and derive key from credentials 32c⟩

  fernet_protocol = Fernet(key)
  encrypted_ls = fernet_protocol.encrypt(pickled_ls)
```

This code is used in chunk 31b.

32b ⟨*decrypt encrypted ls* 32b⟩≡

```
  ⟨set up kdf and derive key from credentials 32c⟩

  fernet_protocol = Fernet(key)
  try:
    pickled_ls = fernet_protocol.decrypt(encrypted_ls)
  except Exception as err:
    warn(f"cache was corrupted, cannot decrypt: {err}")
    pickled_ls = None
```

This code is used in chunk 31b.

To actually do the key derivation, we use the PBKDF2 based on HMAC. We use the supplied credentials for salt and password.

32c ⟨*set up kdf and derive key from credentials* 32c⟩≡

```
  if not credentials or len(credentials) < 2:
    raise ValueError(f"Missing credentials, see `ladok login -h`.")

  if isinstance(credentials, dict):
    try:
      salt = credentials["username"]
      passwd = credentials["password"]
    except KeyError:
      credentials = list(credentials.values())
      ⟨get salt and passwd from credentials list 33a⟩
  else:
    ⟨get salt and passwd from credentials list 33a⟩
```

```
kdf = PBKDF2HMAC(
  algorithm=hashes.SHA256(),
  length=32,
  salt=salt.encode("utf-8"),
  iterations=100000
)
key = base64.urlsafe_b64encode(kdf.derive(passwd.encode("utf-8")))
```

This code is used in chunk 32.

33a ⟨*get salt and passwd from credentials list* 33a⟩≡

```
salt = credentials[0]
passwd = credentials[1]
```

This code is used in chunk 32c.

4.4 Configuration

We provide a global configuration file. We want to allow the user to specify different locations for the configuration.

Location of configuration files We want the user to be able to specify the location of the configuration file.

33b ⟨*add global configuration options* 33b⟩≡

```
argp.add_argument("-f", "--config-file",
  default=f"{dirs.user_config_dir}/config.json",
  help="Path to configuration file "
    f"(default: {dirs.user_config_dir}/config.json) "
    "or set LADOK_USER and LADOK_PASS environment variables.")
```

This code is used in chunk 29a.

Since we provide the default value here, we can always rely on it to be available, so we can use `args.config_file` directly when we want to access the configuration file.

4.5 Managing credentials: the `login` command

We want a subcommand to handle the user's credentials for accessing LADOK. In particular, we need the user to be able to change the credentials in the system keyring, e.g., in case the user wrote the wrong password. The rest we don't need to do much about, merely point out the possibilities to the user.

33c ⟨*login description* 33c⟩≡

```
Manages the user's LADOK login credentials. There are three ways to supply the
login credentials, in order of priority:

1) Through the environment: Just set the environment variables

   a) LADOK_INST, the name of the institution, e.g. KTH Royal Institute of
      Technology;
```

```
    b) LADOK_VARS, a colon-separated list of environment variables, similarly to
       what's done in `ladok login` --- most don't need this, but can rather set
       LADOK_USER (the username, e.g. dbosk@ug.kth.se) and LADOK_PASS (the
       password) instead.

  2) Through the configuration file: Just write

       {{
         "institution": "the name of the university"
         "username": "the actual username",
         "password": "the actual password"
       }}

     to the file {dirs.user_config_dir}/config.json (default, or use the -f
     option). (The keys 'username' and 'password' can be renamed to correspond to
     the necessary values if the university login system uses other names.)

  3) Through the system keyring: Just run `ladok login` and you'll be asked to
     enter the credentials and they will be stored in the keyring. Note that for
     this to work on the WSL platform (and possibly on Windows), you need to
     install the `keyrings.alt` package: `python3 -m pip install keyrings.alt`.

  The keyring is the most secure. However, sometimes one want to try different
  credentials, so the environment should override the keyring. Also, on WSL the
  keyring might require you to enter a password in the terminal---this is very
  inconvenient in scripts. However, when logging in, we first try to store the
  credentials in the keyring.

  If your institution uses Microsoft Authenticator for multi-factor authentication
  (MFA), ladok will automatically handle the number-matching challenge. A number
  will be displayed that you need to enter in the Authenticator app on your phone.
  By default, the number is printed to the terminal. You can set the environment
  variable WEBLOGIN_MFA_NOTIFICATION to a command that will display the number as
  a notification, e.g. `export WEBLOGIN_MFA_NOTIFICATION=notify-send`.
```

This code is used in chunk 34.

34 ⟨*add subparsers to subp* 34⟩≡

```
login_parser = subp.add_parser("login",
  help="Manage login credentials",
  formatter_class=argparse.RawDescriptionHelpFormatter,
  description=f"""
⟨login description 33c⟩
""")

login_parser.set_defaults(func=update_credentials_in_keyring)
```

This definition is continued in chunks 40–42.
This code is used in chunk 29a.

4.5.1 Updating the credentials in the keyring

As stated, if the subcommand is run, we should update the credentials in the keyring.

35a ⟨*login prompt* 35a⟩≡

```
This login process is exactly the same as when you log in using
the web browser. You need three things:

  1) The name of your institution, so that it can be uniquely identified.

  2) Your username at your institution. This is sometimes a username (such as
     `dbosk`) or an email address (such as `dbosk@kth.se`). However,
     occasionally, you type in the username in the web browser and it is
     actually complemented: for instance, at KTH, I type in my username `dbosk`
     and then on the password screen, I can see it has been complemented to
     `dbosk@ug.kth.se`. Be observant about that.

  3) Your password at your institution.
```

This code is used in chunk 35b.

If we run this subcommand, also want to clear the cache; otherwise, the cache will keep the outdated credentials.

35b ⟨*functions* 28b⟩+≡

```
def update_credentials_in_keyring(ls, args):
  print("""
⟨login prompt 35a⟩
""")
  while True:
    institution = input("Institution: ")
    ⟨check that institution uniquely identifies on SeamlessAccess 36b⟩

  vars = {
    "username": input("Institution username: "),
    "password": getpass.getpass("Institution password: [input is hidden] ")
  }
  ⟨try to log into LADOK to verify credentials or update vars 36c⟩

  try:
    keyring.set_password("ladok3", "institution", institution)
    keyring.set_password("ladok3", "vars", ";".join(vars.keys()))
    for key, value in vars.items():
      keyring.set_password("ladok3", key, value)
  except Exception as err:
    ⟨print error message about keyring 36a⟩

  clear_cache(ls, args)
```

This code is used in chunk 27.

We want to print using the `err` function defined earlier. But this doesn't work due to all exceptions named `err`. However, we can access it using the `globabl()["err"]`.

36a ⟨*print error message about keyring* 36a⟩≡

```
globals()["err"](-1, f"You don't seem to have a working keyring. "
                     f"Use one of the other methods, see "
                     f"`ladok login -h`: {err}.")
```

This code is used in chunk 35b.

Now, we want to check that the institution is uniquely identified at SeamlessAccess using the name provided by the user. We do this by looking up the name and asking the user to change if not a unique match.

36b ⟨*check that institution uniquely identifies on SeamlessAccess* 36b⟩≡

```
matches = sa.find_entity_data_by_name(institution)

if not matches:
  print("No match, try again.")
  continue

if len(matches) > 1:
  print("More than one match. Which one?")
  for match in matches:
    print(f"- {match['title']}")
  continue

match = matches[0]

print(f"Matched uniquely, using {match['title']}\n"
      f"            with domain {match['domain']} and\n"
      f"      unique identifier {match['id']}.")

institution = match['id']
break
```

This code is used in chunk 35b.

Once we're done with the institution, we can try to log in with the credentials. We do this by creating a LADOK session object and try if we can successfully make an API call. If there is an authentication error, we'll get a `weblogin.AuthenticationError` exception that can be used by the user to debug and adjust the variable names needed by their institution's login service.

36c ⟨*try to log into LADOK to verify credentials or update vars* 36c⟩≡

```
while True:
  temp_ls = ladok3.LadokSession(institution, vars=vars)

  try:
    temp_ls.user_info_JSON()
  except weblogin.AuthenticationError as err:
    adjust_vars(vars, err.variables)
  else:
    break
```

This code is used in chunk 35b.

37a ⟨*functions* 28b⟩+≡
```
def adjust_vars(vars, form_variables):
  print("""
⟨user instructions to adapt variable names and values 37b⟩
""")
  input("\nPress return to continue.\n")

  ⟨adjust vars using variables from err 37c⟩
```
This code is used in chunk 27.

An authentication error can be due to several things:

(1) the user entered the username or (more likely) the password incorrectly,

(2) the user's institution uses different names for their form fields than `username` and `password`.

In both cases, we'll ask the user to review the variables and their contents, and adjust if necessary.

37b ⟨*user instructions to adapt variable names and values* 37b⟩≡
```
Some part of the authentication went wrong. Either you typed your username or
password incorrectly, or your institution requires some adjustments. We'll
guide you through it.

We will show you some variable names and values and give you the opportunity to
change the values according to the name of the variable. For instance, we
assume that the institution call the variable for the username `username`, but
they might call it `användarnamn` instead. You'll have to figure this out.

Remember, the problem might also be that you entered your username as 'dbosk',
when it should be 'dbosk@ug.kth.se' --- or something similar. Use your
institution's login page to figure this out.

Note: Your password will be visible on screen during this process.
```
This code is used in chunk 37a.

We note that `weblogin.ladok.SSOlogin` requires the keys to be casefolded. So we do that too, and present the variables casefolded so that the users use casefolded names when they try to set up environment variables.

37c ⟨*adjust vars using variables from err* 37c⟩≡
```
for key, value in form_variables.items():
  key = key.casefold()
  new_val = input(f"{key} = '{value}' "
                  f"[enter new value, blank to keep] ")
  if new_val:
    vars[key] = new_val
```
This code is used in chunk 37a.

4.5.2 Loading user credentials

The `load_credentials` function will try to get the user's LADOK credentials. There are three locations:

(1) the system keyring,

(2) the environment variables: `LADOK_INST`, `LADOK_USER` and `LADOK_PASS`,

(3) the configuration file.

They are given the priority they are listed in above. It tries to fetch the credentials in the given order; if it succeeds, it returns those credentials, otherwise it tries the next. If all fail, the function will return `None` for both. (This is due to how we handle the `login` command.)

38a ⟨*functions* 28b⟩+≡

```
def load_credentials(filename="config.json"):
  """
  Loads credentials from environment or file named filename.
  Returns the tuple (instituation, credential dictionary) that
  can be passed to `LadokSession(instiution, credential dictionary)`.
  """

  ⟨fetch institution from environment 38b⟩
  ⟨fetch username and password from environment 38c⟩
  ⟨fetch vars from environment 39a⟩
  ⟨fetch vars from config file 39c⟩
  ⟨fetch vars from keyring 39d⟩
  ⟨fetch username and password from keyring 40a⟩

  return None, None
```

This code is used in chunk 27.

First in priority is to read from the environment. We try to read the institution. If that fails, we assume we're using the old format that only supported KTH.

38b ⟨*fetch institution from environment* 38b⟩≡

```
try:
  institution = os.environ["LADOK_INST"]
except:
  institution = "KTH Royal Institute of Technology"
```

This code is used in chunk 38a.

38c ⟨*fetch username and password from environment* 38c⟩≡

```
try:
  vars = {
    "username": os.environ["LADOK_USER"],
    "password": os.environ["LADOK_PASS"]
  }
  if institution and vars["username"] and vars["password"]:
    return institution, vars
except:
  pass
```

This code is used in chunk 38a.

If we couldn't read the old `LADOK_USER` and `LADOK_PASS`, we try to read the `vars` from the environment using `LADOK_VARS`. Note that we need the `institution` to be set from `LADOK_INST` above for this.

39a ⟨*fetch vars from environment* 39a⟩≡

```
try:
  vars_keys = os.environ["LADOK_VARS"]

  vars = {}
  for key in vars_keys.split(":"):
    try:
      value = os.environ[key]
      if value:
        vars[key] = value
    except KeyError:
      ⟨print warning about missing variable in LADOK_VARS 39b⟩

  if institution and vars:
    return institution, vars
except:
  pass
```

This code is used in chunk 38a.

Unlike in the other cases, we don't just ignore the exception of the key not existing. Since the user has explicitly specified the variable, we should warn them that it doesn't exist.

39b ⟨*print warning about missing variable in LADOK_VARS* 39b⟩≡

```
warn(f"Variable {key} not set, ignoring.")
```

This code is used in chunk 39a.

If none of the above worked, we try the config file next. We pop the institution from the configuration file (a dictionary), because then the remaining entries will be used as `vars`.

39c ⟨*fetch vars from config file* 39c⟩≡

```
try:
  with open(filename) as conf_file:
    config = json.load(conf_file)

  institution = config.pop("institution",
                           "KTH Royal Institute of Technology")
  return institution, config
except:
  pass
```

This code is used in chunk 38a.

Lastly, if nothing else worked, we try to fetch the institution and vars from the keyring. Note that `keyring` returns `None` if the key doesn't exist, it doesn't raise an exception.

39d ⟨*fetch vars from keyring* 39d⟩≡

```
try:
  institution = keyring.get_password("ladok3", "institution")
  vars_keys = keyring.get_password("ladok3", "vars")
```

```
    vars = {}
    for key in vars_keys.split(";"):
      value = keyring.get_password("ladok3", key)
      if value:
        vars[key] = value

    if institution and vars:
      return institution, vars
  except:
    pass
```

This code is used in chunk 38a.

However, if that fails, we fall back on the previous format, that only supported KTH.

40a ⟨*fetch username and password from keyring* 40a⟩≡

```
  try:
    institution = "KTH Royal Institute of Technology"
    username = keyring.get_password("ladok3", "username")
    password = keyring.get_password("ladok3", "password")
    if username and password:
      return institution, {"username": username, "password": password}
  except:
    pass
```

This code is used in chunk 38a.

4.6 Managing the cache: the `cache` command and subcommands

We need a command to control the cache. For this purpose we provide the `cache` subcommand. This command will in turn have subcommands.

40b ⟨*add subparsers to subp* 34⟩+≡

```
  cache_parser = subp.add_parser("cache",
    help="Manage cache",
    description="Manages the cache of LADOK data"
  )
  cache_subp = cache_parser.add_subparsers(
    title="subcommands",
    dest="subcommand",
    required=True
  )
  ⟨add subcommands to cache command 40c⟩
```

This code is used in chunk 29a.

4.6.1 Clear the cache

Since the cache stores sensitive data (student data) and the login credentials, we want to be able to clear the cache.

40c ⟨*add subcommands to cache command* 40c⟩≡

```
  cache_clear = cache_subp.add_parser("clear",
```

```
    help="Clear the cache",
    description="Clears everything from the cache"
  )
  cache_clear.set_defaults(func=clear_cache)
```

This code is used in chunk 40b.

The `clear_cache` function will clear the cache. We simply remove the existing cache file and then exit. If we don't exit using `sys.exit`, the main program will write the cache back again on its exit.

41a ⟨*functions* 28b⟩+≡

```
  def clear_cache(ls, args):
    """Clear the cached LADOK session data.

    Removes the stored encrypted session file from the user's cache directory.
    Silently ignores if the file doesn't exist.

    Args:
        ls (LadokSession): The LADOK session (unused but required by interface).
        args: Command line arguments (unused).
    """
    try:
      os.remove(dirs.user_cache_dir + "/LadokSession")
    except FileNotFoundError as err:
      pass

    sys.exit(0)
```

This code is used in chunk 27.

4.7 Other subcommands

To add a subcommand we must add a subparser to the `subp` parser object from above, we do this in ⟨*add subparsers to subp* 34⟩. Every subcommand exists in a separate module and that module provides the function `add_command_options` that takes `subp` as an argument.

We add the `data` subcommand.

41b ⟨*modules* 41b⟩≡

```
  import ladok3.data
```

This definition is continued in chunks 41d and 42a.
This code is used in chunk 27.

41c ⟨*add subparsers to subp* 34⟩+≡

```
  ladok3.data.add_command_options(subp)
```

This code is used in chunk 29a.

We add the `report` command.

41d ⟨*modules* 41b⟩+≡

```
  import ladok3.report
```

This code is used in chunk 27.

41e ⟨*add subparsers to subp* 34⟩+≡

```
  ladok3.report.add_command_options(subp)
```

This code is used in chunk 29a.

We add the `student` command.

42a ⟨*modules* 41b⟩+≡

```
import ladok3.student
```

This code is used in chunk 27.

42b ⟨*add subparsers to subp* 34⟩+≡

```
ladok3.student.add_command_options(subp)
```

This code is used in chunk 29a.

Chapter 5

The `course` command

We want to compute statistics based on LADOK data.We want to answer the following questions:

(1) What are the grade distribution of a course round?

(2) How do grade distributions differ between years (i.e., rounds) for the same course?

(3) How do grade distributions differ between (similar) courses?

(4) How is the throughput distribution of a course?

(5) How do throughput distributions vary between years?

We provide the module `data` (⟨*data.py* (never defined)⟩) to extract the necessary data from LADOK (Section 5.1). This is a subcommand for the `ladok` command-line interface. It can be used like this:

```
1 ladok course DD1315 > DD1315.csv
```

This program will produce CSV-formated data to answer the questions above. The data is formated like this:

- course,
- round,
- component,
- student (pseudonym),
- grade,
- either absolute date or normalized to the course start and finish.

5.1 The course subcommand

This is a subcommand run as part of the ladok3.cli module. We provide a function add_command_options that adds the subcommand options to a given parser. We need access to LADOK through the ladok3 module. We will also write data to disk in CSV form, so we need the csv module.

44a ⟨ *data.py* 44a⟩≡

```
import csv
import datetime
import ladok3
import os
import sys

⟨functions 45c⟩

def add_command_options(parser):
  """Add the 'course' subcommand options to the argument parser.

  Creates a subparser for the course data extraction command with all
  necessary arguments for filtering and output formatting.

  Args:
      parser (ArgumentParser): The parent parser to add the subcommand to.
  """
  ⟨add data parser to parser 44b⟩
  ⟨add data command arguments to data parser 45b⟩

def command(ladok, args):
  """Execute the course data extraction command.

  Args:
      ladok (LadokSession): The LADOK session for data access.
      args: Parsed command line arguments containing course and filter options.
  """
  ⟨produce data about course specified in args 45a⟩
```

Root chunk (not used in this document).

5.1.1 Setting up the data command options

We add a subparser. We set it up to use the function command.

44b ⟨*add data parser to parser* 44b⟩≡

```
data_parser = parser.add_parser("course",
  help="Returns course results data in CSV form",
  description="""
Returns the results in CSV form for all students on a course round.
By default, all students are included.
Use --exclude-reregistered to exclude students who reregistered.
Use --exclude-credit-transfers to exclude students with credit transfers.
""".strip())
```

```
  data_parser.set_defaults(func=command)
```
This code is used in chunk 44a.

5.2 Producing data

We fetch the data from LADOK and print it in CSV format to standard out (`sys.stdout`). This way the user can deal with how to store the data.

45a ⟨*produce data about course specified in args* 45a⟩≡
```
  data_writer = csv.writer(sys.stdout, delimiter=args.delimiter)
  course_rounds = filter_rounds(
                          ladok.search_course_rounds(code=args.course_code),
                          args.rounds)

  if args.header:
    data_writer.writerow([
      "Course", "Round", "Component", "Student", "Grade", "Time"
    ])
  for course_round in course_rounds:
    data = extract_data_for_round(ladok, course_round, args)

    for student, component, grade, time in data:
      data_writer.writerow(
        [course_round.code, course_round.round_code, component,
          student, grade, time]
      )
```
This code is used in chunk 44a.

We must take a course code and a delimiter as arguments. We also want to know if we want a header or not.

45b ⟨*add data command arguments to data parser* 45b⟩≡
```
  data_parser.add_argument("course_code",
    help="The course code of the course for which to export data")

  data_parser.add_argument("-d", "--delimiter",
    default="\t",
    help="The delimiter for the CSV output; "
      "default is a tab character to be compatible with POSIX commands, "
      "use `-d,` or `-d ,` to get comma-separated values.")

  data_parser.add_argument("-H", "--header", action="store_true",
                           help="Print a header line with the column names.")
```
This definition is continued in chunks 46a, 47b, and 50.
This code is used in chunk 44a.

We filter the rounds.

45c ⟨*functions* 45c⟩≡
```
  def filter_rounds(all_rounds, desired_rounds):
    """Returns only the round objects with round code in desired_rounds."""
    if not desired_rounds:
      return all_rounds
```

```
    return filter(
      lambda x: x.round_code in desired_rounds,
      all_rounds
    )
```

This definition is continued in chunks 46b, 48, 50, and 51.
This code is used in chunk 44a.

We need a list of desired rounds.

46a ⟨*add data command arguments to data parser* 45b⟩+≡

```
  data_parser.add_argument("-r", "--rounds", nargs="+",
    help="The round codes for the rounds to include, "
      "otherwise all rounds will be included.")
```

This code is used in chunk 44a.

5.3 Extracting data for a round

Now we want to extract data for a given course round. This is done by the function `extract_data_for_round`. We need access to LADOK through the `ladok` object of type `LadokSession`. We also need the course round through the `course_round` object of type `CourseRound`.

46b ⟨*functions* 45c⟩+≡

```
  def extract_data_for_round(ladok, course_round, args):
    """Extract student result data for a specific course round.

    Processes a course round to extract student results data in CSV format,
    filtering by students and components as specified in args.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        course_round: The course round object to extract data from.
        args: Command line arguments containing filter options.

    Returns:
        list: List of result data dictionaries for CSV output.
    """
    ⟨compute start and length of the course 47c⟩
    ⟨get the results for the course round 48a⟩

    students = filter_students(course_round.participants(),
                               args.students)

    for student in students:
      student_results = filter_student_results(student,
                                               results)

      ⟨determine if student should be included 51a⟩

      components = filter_components(course_round.components(),
                                     args.components)
```

```
for component in components:
  if len(student_results) < 1:
    result_data = None
  else:
    result_data = filter_component_result(component,
                                student_results[0]["ResultatPaUtbildningar"])

  if not result_data:
    grade = "-"
    normalized_date = None
  else:
    ⟨extract grade and normalized date from result data 49c⟩

  ⟨yield student, component, grade and date 47a⟩
```

This code is used in chunk 44a.

We want to yield the data in CSV form, so we simply yield a tuple. The date is either the normalized date or the date from the result data. The student's identifier will be either the LADOK ID or the student name and personnummer, depending on the command line arguments.

47a ⟨yield student, component, grade and date 47a⟩≡

```
yield student.ladok_id if args.ladok_id \
                       else student, \
      component, \
      grade, \
      normalized_date if args.normalize_date \
                      else result_data["Examinationsdatum"] if result_data \
                                                            else None
```

This code is used in chunk 46b.

47b ⟨add data command arguments to data parser 45b⟩+≡

```
data_parser.add_argument("-l", "--ladok-id", action="store_true",
                         help="Use the LADOK ID for the student, "
                              "otherwise the student name and personnummer "
                              "will be used.")
data_parser.add_argument("-n", "--normalize-date", action="store_true",
                         help="Normalize the date to the start of the course, "
                              "otherwise the date is printed as is.")
```

This code is used in chunk 44a.

5.3.1 Get round data

We need the start of the course and the length to be able to normalize the dates for the grades.

47c ⟨compute start and length of the course 47c⟩≡

```
course_start = course_round.start
course_length = course_round.end - course_start
```

This code is used in chunk 46b.

We must get the results for the course round from LADOK. For this we must use an instance ID of a component. However, LADOK returns the results for all components, not just the one requested for.

48a ⟨*get the results for the course round* 48a⟩≡

```
component = course_round.components()[0]
results = ladok.search_reported_results_JSON(
  course_round.round_id, component.instance_id)
```

This code is used in chunk 46b.

Now, we don't iterate over these results. We iterate over the students and the components of a course round. LADOK doesn't report 'none results'. But we want to have a result showing that a student hasn't done anything, that should affect the statistics. Then we must search for a student's result in the batch of results we received from LADOK.

48b ⟨*functions* 45c⟩+≡

```
def filter_student_results(student, results):
  """Filter results for a specific student.

  Args:
      student: Student object with ladok_id attribute.
      results (list): List of result dictionaries from LADOK.

  Returns:
      list: Filtered list containing only results for the specified student.
  """
  return list(filter(
    lambda x: x["Student"]["Uid"] == student.ladok_id,
    results))
```

This code is used in chunk 44a.

Similarly, we want to find the result for a particular component.

48c ⟨*functions* 45c⟩+≡

```
def filter_component_result(component, results):
  """Find the result data for a specific course component.

  Searches through results to find the entry matching the given component.

  Args:
      component: Course component object to search for.
      results (list): List of result dictionaries to search through.

  Returns:
      dict or None: Result data for the component, or None if not found.
  """
  for component_result in results:
    ⟨get the component result data 49a⟩
    ⟨check component code in result data 49b⟩
    return result_data

  return None
```

This code is used in chunk 44a.

Depending on whether the data is attested or not, we can get the actual grade and date from two different substructures: 'Arbetsunderlag' are results in LADOK that have been entered, but not attested; 'SenastAttesteradeResultat' are results that have been attested. They both have the same structure.

49a ⟨*get the component result data* 49a⟩≡
```
if "Arbetsunderlag" in component_result:
  result_data = component_result["Arbetsunderlag"]
elif "SenastAttesteradeResultat" in component_result:
  result_data = component_result["SenastAttesteradeResultat"]
else:
  continue
```
This code is used in chunk 48c.

The results only refer to the component's instance ID, so we must match the component on that ID. The `course_round` object allows us to do exactly that with the `components` method. We note that we can ignore the grade on the whole course, since that one is determined by the other components.

49b ⟨*check component code in result data* 49b⟩≡
```
if component.instance_id != result_data["UtbildningsinstansUID"]:
  continue
```
This code is used in chunk 48c.

Finally, if there is a grade, we can extract the grade and compute the normalized date. However, if there are no results, we set `None`.

We also only consider grades finished during the course. I.e., if the student has finished after the course ended, we set it as not finished. Otherwise, we cannot compare with earlier courses, since then students have had the chance to finish, so we want to see how many didn't finish on time. We use `args.time_limit` to specify this.

Sometimes, there is a result draft without any date, we ignore these completely.

49c ⟨*extract grade and normalized date from result data* 49c⟩≡
```
if "Betygsgradsobjekt" in result_data:
  grade = result_data["Betygsgradsobjekt"]["Kod"]
  try:
    date = datetime.date.fromisoformat(
      result_data["Examinationsdatum"])
  except KeyError:
    normalized_date = None
    grade = "-"
  else:
    normalized_date = (date - course_start) / course_length
    if args.time_limit and normalized_date > args.time_limit:
      grade = "-"
      normalized_date = None
else:
  grade = "-"
  normalized_date = None
```
This code is used in chunk 46b.

We must add the command line argument for the limit for the normalized date.

50a ⟨*add data command arguments to data parser* 45b⟩+≡

```
data_parser.add_argument("-t", "--time-limit", type=float,
  help="The time (normalized) for cutting off results, "
    "use `-t 1.0` to cut off at course end.")
```

This code is used in chunk 44a.

5.3.2 Filtering data

We might not want all data, but specify on the command-line which data to keep.
We want to filter on students and components.

50b ⟨*functions* 45c⟩+≡

```
def filter_students(all_students, desired_students):
  """Returns only the students with personnummer in desired_students."""
  if not desired_students:
    return all_students
  return filter(
    lambda x: x.personnummer in desired_students,
    all_students
  )

def filter_components(all_components, desired_components):
  """Returns only the components with a code in the desired_components."""
  if not desired_components:
    return all_components
  return filter(
    lambda x: x.code in desired_components,
    all_components
  )
```

This code is used in chunk 44a.

Now, we must also add the suitable command-line options.

50c ⟨*add data command arguments to data parser* 45b⟩+≡

```
data_parser.add_argument("-s", "--students", nargs="+",
  help="List of personnummer for students to include, "
    "otherwise all students will be included.")

data_parser.add_argument("-c", "--components", nargs="+",
  help="List of component codes for components to include, "
    "otherwise all components will be included.")

data_parser.add_argument("-x", "--exclude-reregistered", action="store_true",
  help="Exclude students who are reregistered on this round "
    "(i.e., only include students registered for the first time).")

data_parser.add_argument("-X", "--exclude-credit-transfers", action="store_true",
  help="Exclude students who have credit transfers on the course "
    "(note: credit transfer may be for only part of the course).")
```

This code is used in chunk 44a.

5.4 Which students to include

By default, we include all students on a course round. However, for certain analyses, we may want to exclude some students. The user can optionally exclude reregistered students or students with credit transfers using command-line flags.

51a ⟨*determine if student should be included* 51a⟩≡
```
if not should_include(ladok, student, course_round, student_results,
                      args.exclude_reregistered, args.exclude_credit_transfers):
  continue
```
This code is used in chunk 46b.

We filter students based on the user's choices. If the user has specified `-x` (`--exclude-reregistered`), we exclude students who are reregistered on this round. If the user has specified `-X` (`--exclude-credit-transfers`), we exclude students who have any credit transfer on the course.

51b ⟨*functions* 45c⟩+≡
```
def should_include(ladok, student, course_round, result,
                   exclude_reregistered=False, exclude_credit_transfers=False):
  """Returns True if student should be included, False if to be excluded"""
  if exclude_reregistered and is_reregistered(ladok, student.ladok_id, course_round):
    return False

  if exclude_credit_transfers and has_credit_transfer(result):
    return False

  return True
```
This code is used in chunk 44a.

A student should be counted on the first round they were registered on. We check if a student is reregistered by checking if the course round is the first round the student was registered on.

51c ⟨*functions* 45c⟩+≡
```
def is_reregistered(ladok, student_id, course):
  """Check if the student is reregistered on the course round course."""
  registrations = ladok.registrations_on_course_JSON(
    course.education_id, student_id)
  registrations.sort(
    key=lambda x: x["Utbildningsinformation"]["Studieperiod"]["Startdatum"])
  first_reg = registrations[0]
  return first_reg["Utbildningsinformation"]["Utbildningstillfalleskod"] != \
    course.round_code
```
This code is used in chunk 44a.

If the student has a credit transfer for any part of the course, we should exclude the student.

51d ⟨*functions* 45c⟩+≡
```
def has_credit_transfer(results):
  """Returns True if there exists a credit tranfer among the results."""
  for result in results:
    for component_result in result["ResultatPaUtbildningar"]:
      if component_result["HarTillgodoraknande"]:
```

```
            return True

    return False
```

This code is used in chunk 44a.

Chapter 6

The `report` command

We want to report results from the command line.We need the following data for each result:

- course identifier,
- course component,
- student identifier,
- grade, and
- date[1];
- grader 1,
- grader 2,
- …

We provide two ways to do this: The first is to provide positional arguments on the command line. The second is to not provide any positional argument, and in this case we read CSV data from standard input.

[1] Optional, we set today's date if not present.

6.1 The `report` subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

53 ⟨*report.py* 53⟩≡

```
import csv
import datetime
import ladok3
import sys

⟨functions 54b⟩

def add_command_options(parser):
  """Add the 'report' subcommand options to the argument parser.
```

```
    Creates a subparser for result reporting with options for single results
    via command line arguments or batch processing via CSV input.

    Args:
        parser (ArgumentParser): The parent parser to add the subcommand to.
    """
    report_parser = parser.add_parser("report",
      help="Reports course results to LADOK",
      description="Reports course results to LADOK"
    )
    report_parser.set_defaults(func=command)
    ⟨add report command arguments to report parser 54a⟩

  def command(ladok, args):
    """Execute the result reporting command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing result data or CSV options.
    """
    ⟨report results depending on args 60b⟩
```

Root chunk (not used in this document).

As mentioned above, we provide two ways of doing this.

54a ⟨add report command arguments to report parser 54a⟩≡

```
  one_parser = report_parser.add_argument_group(
    "one result as positional args, only date is optional")
  ⟨add one result group arguments 59a⟩
  many_parser = report_parser.add_argument_group(
    "many results read from standard input as CSV, columns: "
    "course, component, student, grade, date, grader 1, ..., grader N")
  ⟨add many results group arguments 55d⟩
```

This definition is continued in chunk 55b.
This code is used in chunk 53.

6.2 Report the results

We provide two functions, one for each way of reporting the results.

54b ⟨functions 54b⟩≡

```
  def report_one_result(ladok, args):
    """Report a single result specified via command line arguments.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments containing course, student, component, and grade info.
    """
    ⟨report results given in args 60a⟩

  def report_many_results(ladok, args):
```

```
    """Report multiple results read from CSV data on stdin.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments containing CSV processing options.
    """
```
⟨*report results given in stdin* 55c⟩

This definition is continued in chunk 57a.
This code is used in chunk 53.

In both cases, we want to specify whether or not the results should be finalized. We add an option whether we want to finalize the grade for attestation by the examiner. We add this argument outside the two groups, since it's valid for both.

55a ⟨*finalize option help* 55a⟩≡
```
Finalize the grade (mark as ready/klarmarkera) for examiner to attest.
Note that without this option, no graders will be registered in LADOK.
```
This code is used in chunk 55b.

55b ⟨*add report command arguments to report parser* 54a⟩+≡
```
report_parser.add_argument("-f", "--finalize",
  help="""⟨finalize option help 55a⟩""",
  action="store_true",
  default=False
)
```
This code is used in chunk 53.

6.3 Report many results given in standard input

We want to read CSV data from standard input.

55c ⟨*report results given in stdin* 55c⟩≡
```
data_reader = csv.reader(sys.stdin, delimiter=args.delimiter)
for course_code, component_code, student_id, grade, date, *graders in data_reader:
  ⟨report a result read from stdin 56b⟩
```
This code is used in chunk 54b.

We need to add an argument for the delimiter.

55d ⟨*add many results group arguments* 55d⟩≡
```
many_parser.add_argument("-d", "--delimiter",
  default="\t",
  help="The delimiter for the CSV input; "
    "default is a tab character to be compatible with POSIX commands, "
    "use `-d,` or `-d ,` to get comma-separated values.")
```
This definition is continued in chunk 56a.
This code is used in chunk 54a.

We also want to handle errors and confirmations. When reporting in bulk, we don't want unnecessary errors. We also want to have a summary of the changes.

56a ⟨*add many results group arguments* 55d⟩+≡
```
many_parser.add_argument("-v", "--verbose",
  action="count", default=0,
  help="Increases the verbosity of the output: -v will print results that "
    "were reported to standard out. Otherwise only errors are printed.")
```
This code is used in chunk 54a.

Then we can actually report the result using the values read from `stdin`.

56b ⟨*report a result read from stdin* 56b⟩≡
```
try:
  set_grade(ladok, args,
            student_id, course_code, component_code, grade, date, graders)
except Exception as err:
  ⟨try to resolve student from ladok using student_id 56c⟩
  print(f"{course_code} {component_code}={grade} ({date}) {student}: "
        f"{err}",
        file=sys.stderr)
```
This code is used in chunk 55c.

The reason we want to resolve the student from LADOK is that the `student_id` might be a personnummer or a LADOK ID—if the latter, it's not particularly readable for a human and we can't use the LADOK ID in the LADOK web interface when we want to deal with the errors manually. But if we resolve the student, then we get a readable name.

56c ⟨*try to resolve student from ladok using student_id* 56c⟩≡
```
try:
  student = ladok.get_student(student_id)
except Exception:
  student = student_id
```
This code is used in chunks 56b and 60a.

When we set the grade, there are a few cases that should be handled. If the grade isn't attested, we can modify it. First, if the grade is different from what we want, we set the new grade. Then, if we want to finalize, we finalize the grade—this allows us to run the command first without `-f` (to set the grade) and then with `-f` (to finalize it) without getting an error. If we've selected the verbose option, then we print what we have reported.

Results in LADOK go through three states:

Draft Can be modified and finalized.

Finalized Ready for examiner attestation, cannot be modified or finalized again.

Attested Fully locked.

If the result is already finalized (but not attested), we skip trying to modify or finalize it again—this makes the command idempotent. If the result was attested, we check if the grade is different. If it's different, we output an error. If it's the same, we silently ignore it. This is best for bulk reporting, because then we can always try to report for all students.

We want to report errors as exceptions.

57a ⟨*functions* 54b⟩+≡

```
def set_grade(ladok, args,
              student_id, course_code, component_code, grade, date, graders):
  """Set a grade for a student's course component result.

  Handles the logic for setting grades, including checking if results are
  already attested, validating dates, and optionally finalizing results.

  Args:
      ladok (LadokSession): The LADOK session for data access.
      args: Command line arguments with options like verbose and finalize.
      student_id (str): Student identifier (personnummer or LADOK ID).
      course_code (str): Course code (e.g., "DD1315").
      component_code (str): Component code (e.g., "LAB1").
      grade (str): Grade to assign (e.g., "P", "F", "A").
      date (str): Examination date in YYYY-MM-DD format.
      graders (list): List of grader identifiers.

  Raises:
      Exception: If the grade setting fails or validation errors occur.
  """
  student = ladok.get_student(student_id)
  ⟨get course from student and course_code 58b⟩
  ⟨get component from course and component_code 58c⟩

  if component.attested:
    ⟨handle attested result 58a⟩
  elif component.finalized:
    ⟨handle finalized result 57c⟩
  else:
    ⟨handle draft result 57b⟩
```

This code is used in chunk 53.

If the result is a draft, we can set and finalize the grade as usual.

57b ⟨*handle draft result* 57b⟩≡

```
if component.grade != grade:
  ⟨ensure date is a valid date for course 58d⟩
  component.set_grade(grade, date)
if args.finalize:
  component.finalize(graders)
if args.verbose:
  print(f"{course_code} {student}: reported "
        f"{component.component} = {component.grade} ({date}) "
        f"by {', '.join(graders)}.")
```

This code is used in chunk 57a.

If the result is already finalized but not attested, it's waiting for the examiner to attest it. We cannot modify or re-finalize it, so we skip those operations. In verbose mode, we inform the user that the result is already finalized.

57c ⟨*handle finalized result* 57c⟩≡

```
if args.verbose:
  print(f"{course_code} {student}: {component.component} already finalized, "
        f"waiting for attestation.")
```

This code is used in chunk 57a.

If the result is attested, we check if the grade we want to report matches. If not, we raise an error since we cannot change an attested grade. If it matches, we silently succeed since the desired grade is already set.

58a ⟨*handle attested result* 58a⟩≡

```
if component.grade != grade:
  raise ladok3.LadokValidationError(f"attested {component.component} "
                  f"result {component.grade} ({component.date}) "
                  f"is different from {grade} ({date}).")
```

This code is used in chunk 57a.

Now we simply want to set those objects up. We want to throw exceptions that explain what the problem is if these don't exist.

58b ⟨*get* `course` *from* `student` *and* `course_code` 58b⟩≡

```
try:
  course = student.courses(code=course_code)[0]
except IndexError:
  raise ladok3.LadokNotFoundError(f"{course_code}: No such course for {student}")
```

This code is used in chunk 57a.

58c ⟨*get* `component` *from* `course` *and* `component_code` 58c⟩≡

```
try:
  component = course.results(component=component_code)[0]
except IndexError:
  raise ladok3.LadokNotFoundError(f"{component_code}: no such component for {course_code}")
```

This code is used in chunk 57a.

Finally, we want to ensure the date is correct. The date must be at the earliest the start of the course. The student can't finish any results before the course has started. LADOK will not accept that.

58d ⟨*ensure* `date` *is a valid date for* `course` 58d⟩≡

```
if not isinstance(date, datetime.date):
  date = datetime.date.fromisoformat(date)

if date < course.start:
  print(f"{course_code} {component_code}={grade} "
        f"({date}) {student}: "
        f"Grade date ({date}) is before "
        f"course start date ({course.start}), "
        f"using course start date instead.")
  date = course.start
```

This code is used in chunk 57b.

6.4 Report a result given on command line

If we've chosen to give one result on the command line, then we'll need the following arguments.

We start with the course, component code, the student's ID and grade.

59a ⟨*add one result group arguments* 59a⟩≡
```
one_parser.add_argument("course_code", nargs="?",
  help="The course code (e.g. DD1315) for which the grade is for."
)

one_parser.add_argument("component_code", nargs="?",
  help="The component code (e.g. LAB1) for which the grade is for. "
       "This can be set to the course code (e.g. DD1315) to set the "
       "final grade for the course. But all components must be "
       "certified (attested) before the course grade can be set."
)

one_parser.add_argument("student_id", nargs="?",
  help="Student identifier (personnummer or LADOK ID)."
)

one_parser.add_argument("grade", nargs="?",
  help="The grade (e.g. A or P)."
)
```
This definition is continued in chunk 59.
This code is used in chunk 54a.

We must make them optional like this to make it work with our second alternative (bulk reporting through `stdin`), so we must check ourselves that we got the arguments.

59b ⟨*check that we got all positional arguments* 59b⟩≡
```
if not (args.course_code and args.component_code and
  args.student_id and args.grade):
  print(f"{sys.argv[0]} report: "
        "not all positional args given: "
        "course_code, component, student, grade",
        file=sys.stderr)
  sys.exit(1)
```
This code is used in chunk 60a.

Next, we have the date. To ensure it's a valid date we'll make `argparse` convert it to `datetime` format. If it's not provided, we let `argparse` set it to today's date.

59c ⟨*add one result group arguments* 59a⟩+≡
```
one_parser.add_argument("date", nargs="?",
  help="Date on ISO format (e.g. 2021-03-18), "
      f"defaults to today's date ({datetime.date.today()}).",
  type=datetime.date.fromisoformat,
  default=datetime.date.today()
)
```
This code is used in chunk 54a.

Finally, we have the list of graders.

59d ⟨*add one result group arguments* 59a⟩+≡
```
one_parser.add_argument("graders", nargs="*",
  help="Space separated list of who did the grading, "
```

```
        "give each grader as 'First Last <email@institution.se>'.")
```

This code is used in chunk 54a.

Now that we have the arguments, we can just execute the following code using them.

60a ⟨*report results given in args* 60a⟩≡

```
⟨check that we got all positional arguments 59b⟩
try:
  set_grade(ladok, args,
            args.student_id, args.course_code, args.component_code,
            args.grade, args.date, args.graders)
except Exception as err:
  student_id = args.student_id
  ⟨try to resolve student from ladok using student_id 56c⟩
  print(f"{args.course_code} {args.component_code}={args.grade} ({args.date}) "
        f"{student}: {err}",
        file=sys.stderr)
```

This code is used in chunk 54b.

6.5 Determine which function to run

We know that if a course code is given as positional argument, then we know that we should report one result from the command line.

60b ⟨*report results depending on args* 60b⟩≡

```
if args.course_code:
  report_one_result(ladok, args)
else:
  report_many_results(ladok, args)
```

This code is used in chunk 53.

Chapter 7

The `student` command

We want to show data for a student.For this, we need a student identifier. We want to use it like this:

```
1 ladok student 700101-1234
```

We also want to optionally print courses.

```
1 ladok student 700101-1234 -c "DD131[0-9]"
```

7.1 The `student` subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

61 ⟨*student.py* 61⟩≡

```
import csv
import ladok3.cli

⟨functions 63c⟩

def add_command_options(parser):
  """Add the 'student' subcommand options to the argument parser.

  Creates a subparser for displaying student information with options
  for course filtering and result display.

  Args:
      parser (ArgumentParser): The parent parser to add the subcommand to.
  """
  student_parser = parser.add_parser("student",
    help="Shows a student's information in LADOK",
    description="""
    Show a student's information in LADOK.
    Shows information like name, personnummer, contact information.
    """
  )
```

```
    student_parser.set_defaults(func=command)
    ⟨add student command arguments to student parser 62a⟩

  def command(ladok, args):
    """Execute the student information display command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing student ID and display options.
    """
    ⟨print info depending on args 63b⟩
```

Root chunk (not used in this document).

7.2 The student command options

7.2.1 The student identifier

As mentioned above, we want to take one positional argument, the student identifier. Since our API (Section 12.1) can handle both personnummer and LADOK ID transparently, we don't have to care about that either.

62a ⟨add student command arguments to student parser 62a⟩≡

```
  student_parser.add_argument("id",
    help="The student's ID, either personnummer or LADOK ID"
  )
```

This definition is continued in chunks 62 and 63a.
This code is used in chunk 61.

7.2.2 An optional course identifier

We also want an option for the course code.

62b ⟨add student command arguments to student parser 62a⟩+≡

```
  student_parser.add_argument("-c", "--course",
    nargs="?", const=".*",
    help="A regular expression for which course codes to list, " \
      "use no value for listing all courses."
  )
```

This code is used in chunk 61.

7.2.3 A results flag

We also want a flag for specifying whether or not to include the results of each course.

62c ⟨add student command arguments to student parser 62a⟩+≡

```
  student_parser.add_argument("-r", "--results",
    action="store_true", default=False,
    help="Set to include results for each course listed."
  )
```

This code is used in chunk 61.

7.2.4 A contact information flag

We also want a flag for specifying whether or not to include the student's contact information (email, phone, address).

63a ⟨*add student command arguments to student parser* 62a⟩+≡
```
student_parser.add_argument("--contact",
  action="store_true", default=False,
  help="Include contact information (email, phone, address)."
)
```
This code is used in chunk 61.

7.3 Print the student data

Now that we have the student identifier, we can simply use that to fetch the student from LADOK. Note that we access the `student.alive` attribute just to force pulling the personal data from LADOK to trigger any error in the try-statement.

63b ⟨*print info depending on args* 63b⟩≡
```
try:
  student = ladok.get_student(args.id)
  student.alive
except Exception as err:
  ladok3.cli.err(-1, f"can't fetch student data for {args.id}: {err}")

print_student_data(student, args)

if args.course:
  print()
  print_course_data(student, args)
```
This code is used in chunk 61.

7.3.1 Printing personal student data

To print the student's personal data, we simply print the most interesting attributes.

63c ⟨*functions* 63c⟩≡
```
def print_student_data(student, args):
  """Prints the student data, all attributes, to stdout.

  Args:
    student: A Student object with the student's data
    args: Command line arguments, including flags like --contact
  """
  print(f"First name:   {student.first_name}")
  print(f"Last name:    {student.last_name}")
  print(f"Personnummer: {student.personnummer}")
  print(f"LADOK ID:     {student.ladok_id}")
  print(f"Alive:        {student.alive}")
  ⟨print info about suspensions for student 64a⟩
  ⟨print contact info if requested 64c⟩
```
This definition is continued in chunk 64d.

This code is used in chunk 61.

We want to print whether the student is currently suspended or not. We want to make this really clear.

64a ⟨*print info about suspensions for* `student` 64a⟩≡
```
print(f"Suspended:    ", end="")
if any(map(lambda x: x.is_current, student.suspensions)):
  print("YES")
else:
  print("no")
```
This definition is continued in chunk 64b.
This code is used in chunk 63c.

Then we also want to print all the times the student has been suspended. We only want to print this if the student has been suspended at least once.

64b ⟨*print info about suspensions for* `student` 64a⟩+≡
```
if student.suspensions:
  print(f"Suspenions:   ", end="")
  for suspension in student.suspensions:
    print(f"{suspension}", end="\n              ")
  print()
```
This code is used in chunk 63c.

Now we add the contact information display. We only want to print this if the user has requested it using the `--contact` flag.

64c ⟨*print contact info if requested* 64c⟩≡
```
if args.contact:
  print("Contact information:")
  if student.email:
    print(f"Email:        {student.email}")
  if student.phone:
    print(f"Phone:        {student.phone}")
  if student.address:
    print(f"Address:      {student.address[0]}")
    for line in student.address[1:]:
      print(f"              {line}")
```
This code is used in chunk 63c.

7.3.2 Printing student's course data

To print the student's course data, we simply filter the courses on the option that the user supplies. We then print all courses and, if the flag is set, we also print the results for each course.

64d ⟨*functions* 63c⟩+≡
```
def print_course_data(student, args):
  """Prints the courses"""
  print("Courses:")
  for course in student.courses(code=args.course):
    print(f"{course}")
    if args.results:
      for result in course.results():
```

```
        print(f"  {result}")
```

This code is used in chunk 61.

Part III

The Python library

Chapter 8

Overview

This is the documented source code of the LADOK3 API wrapper for Python, the package `ladok3`. We use the standard structure for the script. We start with the imports and then our class definitions follow in ⟨*classes* 71⟩ and some helper functions in ⟨*functions* 78⟩.

67a ⟨*ladok3.py* 67a⟩≡

```
"""A Python wrapper for the LADOK3 API"""
# -*- coding: utf-8 -*-
import cachetools
import datetime
import functools
import html
import json
import operator
import re
import requests
from requests.adapters import HTTPAdapter
from urllib3.util.retry import Retry
import urllib.parse
import weblogin.ladok
import weblogin.microsoft

⟨lazy session attribute 68⟩

⟨classes 71⟩
⟨functions 78⟩
```

Root chunk (not used in this document).

We also provide tests for all functionality in ⟨*test ladok3.py* (never defined)⟩. These illustrate how to the `ladok3` module and provide testing using `pytest`.

67b ⟨*test ladok3.py* 67b⟩≡

```
import json
import ladok3
import os

⟨test functions 72a⟩
```

Root chunk (not used in this document).

8.1 Convenient access to a cached session

For scripts that use the CLI's cached credentials, we provide a convenient module-level attribute `session`. This allows a one-liner pattern:

```
1 import ladok3
2 student = ladok3.session.get_student("191234561234")
```

instead of the usual three-line boilerplate of loading credentials and restoring a cached session manually.

The session lifecycle—load credentials, try to restore a cached session, fall back to creating a fresh one—is shared with the CLI. Rather than duplicating that logic here, we delegate to `ladok3.cli.get_session`, which encapsulates the three-step process. The helper lives in `cli` because that module already owns the credential-loading and session-caching functions it depends on.

Since LADOK sessions contain OAuth tokens that get refreshed during use, we register an `atexit` handler to save the session back to the cache on process exit. This preserves refreshed tokens for the next invocation, just as the CLI does after every command.

We use Python's module-level `__getattr__` (PEP 562) for lazy loading—importing `ladok3` alone does *not* require credentials; the session is loaded only when `session` is first accessed. We import `ladok3.cli` inside `__getattr__` rather than at module level to avoid circular imports, since `cli.py` itself imports `ladok3`.

68 ⟨*lazy session attribute* 68⟩≡

```
_session = None
_credentials = None

def _save_session():
    if _session is not None and _credentials is not None:
        import ladok3.cli
        ladok3.cli.store_ladok_session(
            _session, _credentials
        )

def __getattr__(name):
    global _session, _credentials
    if name == "session":
        if _session is None:
            import atexit
            import ladok3.cli
            try:
                _session, _credentials = (
                    ladok3.cli.get_session()
                )
            except Exception:
                _session = None
            if _session is None:
                raise RuntimeError(
                    "No LADOK credentials found. "
                    "Run `ladok login` first, or "
```

```
                    "create a session manually with "
                    "ladok3.LadokSession(...)."
                )
            atexit.register(_save_session)
        return _session
    raise AttributeError(
        f"module 'ladok3' has no attribute {name!r}"
    )
```

This code is used in chunk 67a.

Chapter 9

Accessing LADOK

To access LADOK we provide a class `LadokSession`. An instance of this class provides the `session` attribute, which is an authenticated session to LADOK's REST API. It uses the `requests` module.

The simplest way to get a session is to use the module-level `ladok3.session` attribute, which handles credential loading, session caching, and cleanup automatically:

```
import ladok3

student = ladok3.session.get_student("123456-1234")
```

For more control, we can use the class directly as follows.

```
import ladok3
import weblogin.kth

ladok = ladok3.LadokSession(
        "KTH Royal Institute of Technology",
        autologin_handlers=[
          weblogin.kth.SAMLlogin(),
          weblogin.kth.UGlogin(os.environ["KTH_LOGIN"],
                               os.environ["KTH_PASSWD"])
        ],
        test_environment=True) # for experiments

```

An alternative way would be to use the general authentication procedure that seems to work at most Swedish universities.

```
import ladok3

ladok = ladok3.LadokSession("KTH Royal Institute of Technology",
                            vars={"username": os.environ["KTH_LOGIN"],
                                  "password": os.environ["KTH_PASSWD"]},
                            test_environment=True) # for experiments
```

Yet another way is to use the `ladok` command's own credential store.

```
import ladok3
import ladok3.cli

ladok = ladok3.LadokSession(*ladok3.cli.load_credentials(),
                            test_environment=True) # for experiments
```

Just note the unpacking `*` to unpack the tuple that `load_credentials` returns.

This chapter covers how the `LadokSession` class work. The remaining chapters cover what the `ladok` object can be used for. Chapter 12 covers how we can work with student data. Chapter 13 covers how we can work with course data.

9.1 The `LadokSession` class

There are two categories of functionality that we want from the `LadokSession` object. The first is the `session` attribute. This is an active and logged-in session that can be used to query LADOK (REST API over HTTPS). The second is the set of methods to get objects of interest, these methods use the `session` attribute to query data to create the objects. We cover the first (the `session` attribute) in this section and the second (the data methods) in Section 9.2.

We want to provide the attribute `session` which is an active and logged-in session for querying LADOK. We must thus handle authentication to LADOK. The authentication for using LADOK is performed using a university SSO system. We will use the `weblogin` package[1] to handle this. This will guarantee that we're always signed in.

[1] URL: https://github.com/dbosk/weblogin

71 ⟨*classes* 71⟩≡

```
class LadokSession:
  """This is an interface for reading and writing data from and to LADOK."""
  def __init__(self, institution, vars=None, autologin_handlers=None,
               test_environment=False, notification_cmd=None):
    """
    Creates a session with LADOK.
    - `institution` is the name (str) of the university that will give a unique
      match when searching SeamlessAccess.org (see weblogin.ladok.SSOlogin).
    - `vars` is a dictionary that is passed to weblogin.ladok.SSOlogin to
      supply the login credentials. Usually contains keys 'username' and
      'password', see weblogin.ladok.SSOlogin documentation for details.
    - `autologin_handlers` is a list of weblogin.AutologinHandler objects
      specific to the institution. Usually one for the SAML handler and one for
      the actual login server. (For KTH it's weblogin.kth.SAMLlogin and
      weblogin.kth.UGlogin.) Default value is None, only the
      `weblogin.ladok.SSOlogin` handler will be used.
      A `weblogin.microsoft.AzureMFA` handler is always appended automatically
      to handle Microsoft Authenticator MFA challenges.
    - `test_environment` specifies whether we should use LADOK's test
      environment instead of the production environment.
    - `notification_cmd` is an optional command (str) used to notify the user
      of the MFA number (e.g. 'notify-send'). The environment variable
      WEBLOGIN_MFA_NOTIFICATION takes precedence if set.
    """
    self.__session = None
```

⟨*construct the session object from the autologin handlers* 72b⟩
⟨*LadokSession constructor body* 77⟩

```
@property
def session(self):
  """A guaranteed to be active and logged in requests session to LADOK"""
  return self.__session

@session.setter
def session(self, new_value):
  self.__session = new_value
```

⟨*LadokSession data methods* 82⟩
This definition is continued in chunks 74–76, 83, 84, 88a, 93c, 96, 103, 106, and 108c.
This code is used in chunk 67a.

Now let's test this class. We create a single `LadokSession` object at the module level that is shared across all tests. This minimizes the number of MFA authentications required when running the test suite, since each session creation triggers a full login flow.

72a ⟨*test functions* 72a⟩≡

```
ladok = ladok3.LadokSession(
        os.environ["LADOK_INST"],
        vars={"username": os.environ["LADOK_USER"],
              "password": os.environ["LADOK_PASS"]},
        test_environment=True,
        notification_cmd="notify-send")

def test_LadokSession_vars():
  assert ladok.user_info_JSON()
```

This definition is continued in chunks 79–81.
This code is used in chunk 67b.

9.1.1 Construct the session using `weblogin`

To construct the session, we simply construct a `weblogin.AutologinSession` object. This one requires a list of `weblogin.AutologinHandler` objects.

We simply pass the institution to the constructor of the `weblogin.ladok.SSOlogin` class. We add that to the list of autologin handlers supplied by the user. Due to the internal workings of `weblogin.AutologinSession`, we add it first as a, probably negligible, optimization.

Many Swedish universities use Microsoft's identity platform, which may require multi-factor authentication (MFA) via Microsoft Authenticator. We add a `weblogin.microsoft.AzureMFA` handler at the end of the handler list to handle this transparently. It is placed last because MFA challenges occur after password authentication. The handler is passive: if no MFA challenge is encountered, it does nothing. Users can configure a custom notification command via the `WEBLOGIN_MFA_NOTIFICATION` environment variable.

72b ⟨*construct the session object from the autologin handlers* 72b⟩≡

```
if not vars:
  vars = {}
```

```
if not autologin_handlers:
  autologin_handlers = []

autologin_handlers.insert(0,
            weblogin.ladok.SSOlogin(institution, vars=vars,
                                    test_environment=test_environment))

autologin_handlers.append(
            weblogin.microsoft.AzureMFA(notification_cmd=notification_cmd))

self.__session = weblogin.AutologinSession(autologin_handlers)
⟨configure retry policy for the session 74a⟩
```

This code is used in chunk 71.

9.1.2 Retry policy for network resilience

Network operations can fail transiently due to temporary connectivity issues, server overload, or other intermittent problems. To make the LADOK API wrapper more robust, we implement an automatic retry mechanism with exponential backoff.

The retry policy addresses the "why" behind network failures: they are often temporary. Rather than immediately failing when encountering a network error or server overload (5xx errors), we wait and try again. The exponential backoff prevents overwhelming an already struggling server while still providing reasonable response times for transient failures.

We use the `urllib3.util.retry.Retry` class, which provides sophisticated retry logic, combined with `requests.adapters.HTTPAdapter` to integrate it into our session. This approach is preferable to manual retry loops because it:

- Handles backoff timing automatically with exponential growth
- Respects HTTP standards (like `Retry-After` headers)
- Integrates seamlessly with the `requests` session infrastructure
- Applies to all HTTP methods uniformly

We configure the retry policy as follows:

Total retries We set a maximum of 10 retry attempts. With exponential backoff starting at 1 second, this allows for approximately 5 minutes of total retry time (1, 2, 4, 8, 16, 32, 64, 128, 256, 300 seconds = ~5 minutes when capped at 300 seconds).

Backoff factor We use a backoff factor of 1, meaning the wait time between retries is {backoff factor} $\times 2^{(\text{retry number}-1)}$ seconds. The first retry waits 1 second, the second waits 2 seconds, the third waits 4 seconds, and so on.

Maximum backoff We cap the backoff at 300 seconds (5 minutes) to prevent excessively long waits on later retries while still allowing the full retry sequence to span approximately 5 minutes total.

Status forcelist We retry on HTTP status codes 500 (Internal Server Error), 502 (Bad Gateway), 503 (Service Unavailable), and 504 (Gateway Timeout). These indicate temporary server-side issues that often resolve quickly.

Allowed methods We allow retries on all HTTP methods including GET, POST, PUT, and DELETE. While POST/PUT/DELETE are not idempotent by HTTP standards, LADOK's API design makes these operations safe to retry (results are either already recorded or will be recorded on retry).

74a ⟨*configure retry policy for the session* 74a⟩≡

```
retry_strategy = Retry(
    total=10,
    backoff_factor=1,
    backoff_max=300,
    status_forcelist=[500, 502, 503, 504],
    allowed_methods=["HEAD", "GET", "PUT", "DELETE", "OPTIONS", "TRACE",
                     "POST"]
)
adapter = HTTPAdapter(max_retries=retry_strategy)
self.__session.mount("http://", adapter)
self.__session.mount("https://", adapter)
```

This code is used in chunk 72b.

The `mount` method attaches the retry-enabled adapter to both HTTP and HTTPS URLs, ensuring all requests through this session benefit from automatic retries.

9.2 The `LadokSession` data methods

The data methods are essentially factories for various objects mapping to data in LADOK. We will first look at the base classes and then provide methods that return instances of various subclasses.

9.2.1 LADOK data base class: `LadokData`

Some objects will only have read-only attributes, like grade scales, whereas others, like students, will have modifiable attributes, such as results, which must be synced.

We will provide properties for the various attributes. This way we can have read-only properties for attributes that cannot be changed, such as students' names, and read–write properties for attributes that can be changed, such as results.

We also want to serialize the data. We will use the JSON format for this. We provide this as a read only property `json`. If the output of `json` is given as the `kwargs` parameter to the `make_properties` method, it will restore all the attributes.

We provide the `LadokData` class with a constructor that takes keyword arguments (`**kwargs`). These are not used, but just so that we can add `super().__init__(**kwargs)` at the top of every constructor of the child classes.

Thus, we have the following base class.

74b ⟨*classes* 71⟩+≡

```
class LadokData:
  """Base class for LADOK data"""
  def __init__(self, /, **kwargs):
    pass

  def make_properties(self, kwargs):
    """Turn keywords into private attributes and read-only properties"""
```

⟨*set up read-only properties* 76a⟩

```
def __eq__(self, other):
  if type(self) == type(other):
    return self.__dict__ == other.__dict__
  return False

def __repr__(self):
  return str(self.json)

@property
def json(self):
  """JSON compatible dictionary representation of the object"""
  json_format = self.__dict__.copy()
  for key, value in json_format.items():
    if isinstance(value, LadokData):
      json_format[key] = value.json
  json_format["type"] = type(self).__name__
  return json_format
```

This code is used in chunk 67a.

9.2.2 To and from JSON format

We want to be able to restore an object from that JSON formatted dictionary. We provide a function `restore`, which restores an object from a JSON-like dictionary. The `restore` function uses the constructor and, in turn, the `__setup_properties` method.

75a ⟨*function* 75a⟩≡

```
def restore(json_dict):
  if "type" not in json_dict:
    return LadokData(**json_dict)

  ⟨check type and return such object (never defined)⟩

  raise TypeError(f"cannot restore type {json_dict.type}, not a known type")
```

Root chunk (not used in this document).

For completeness, we also provide `LadokDataEncoder`, a subclass of `JSONEncoder`.

75b ⟨*classes* 71⟩+≡

```
class LadokDataEncoder(json.JSONEncoder):
  """JSON encoder for LadokData objects.

  Extends JSONEncoder to properly serialize LadokData objects using their
  json property for consistent JSON output.
  """
  def default(self, object):
    """Convert LadokData objects to JSON-serializable format.

    Args:
        object: The object to encode.
```

```
    Returns:
        dict: JSON representation for LadokData objects, or default handling.
    """
    if isinstance(object, LadokData):
      return object.json
    return super().default(object)
```

This code is used in chunk 67a.

For the `__setup_properties` method, we want it to set up private attributes and read-only properties for them. For each keyword in `kwargs`, we add the private attribute using `setattr(self, ...)` and the corresponding property to the class itself using `setattr(type(self), ...)`. (Note that we only add the property if it doesn't already exist.) We check the names, if the attributes already match the pattern for a private attribute name, we don't 'privatize' it again.

76a ⟨*set up read-only properties* 76a⟩≡

```
for attribute in kwargs:
  # private attributes are named on the form _class__attribute
  priv_attr_prefix = f"_{type(self).__name__}__"
  if priv_attr_prefix in attribute:
    priv_attr_name = attribute
    property_name = attribute.replace(priv_attr_prefix, "")
  else:
    priv_attr_name = priv_attr_prefix + attribute
    property_name = attribute

  setattr(self, priv_attr_name, kwargs[attribute])
  if not hasattr(type(self), property_name):
    setattr(type(self), property_name,
      property(operator.attrgetter(priv_attr_name)))
```

This code is used in chunk 74b.

9.2.3 LADOK remote data base class: `LadokRemoteData`

The objects that can be modified can also be updated. They can be updated locally, which must be pushed to LADOK; they can be changed remotely, which must be pulled from LADOK. These objects must also keep a LADOK session internally (`self.ladok`).

76b ⟨*classes* 71⟩+≡

```
class LadokRemoteData(LadokData):
  """Base class for remote LADOK data"""
  def __init__(self, /, **kwargs):
    super().__init__(**kwargs)
    if "_LadokRemoteData__ladok" in kwargs:
      self.make_properties(**kwargs)
    else:
      self.__ladok = kwargs.pop("ladok")

  @property
  def ladok(self):
```

```
      return self.__ladok

    def pull(self):
      """Pull updates for object from LADOK"""
      raise NotImplementedError("This object doesn't support pulling from LADOK")

    def push(self):
      """Push changes made to the object to LADOK"""
      raise NotImplementedError("This object doesn't support pushing to LADOK")
```

This code is used in chunk 67a.

The LADOK session object provides some methods for searching for data, e.g., students. These methods will return instances of `LadokData` or `LadokRemoteData`.

9.2.4 Cached methods

Since the objects that can be updated can update themselves (`LadokRemoteData`), we can cache the factories to speed up interaction with LADOK. Since Python uses references for objects, a cached object will always be up-to-date if the program has made changes to it. This way we don't have to interact with the LADOK servers for every request, but only when necessary.

We will have a shared cache for all methods.

77 ⟨*LadokSession constructor body* 77⟩≡

```
  self.cache = {}
```

This code is used in chunk 71.

Then we can make the method caching by the following code.

```
1 @cachetools.cachedmethod(
2   operator.attrgetter("cache"),
3   key=functools.partial(cachetools.keys.hashkey, "method"))
4 def method(self, *args):
5   pass
```

However, this construction cannot handle non-hashable objects (e.g., dictionaries and lists) as arguments. But the JSON representation of objects should be possible to make hashable.

Chapter 10

Helper functions

We have several helper functions that are useful throughout.

10.1 Filter on keys

Many data methods will filter objects based on attributes. We provide a function that takes a list of objects and a dictionary. Each key in the dictionary corresponds to an attribute for the objects. The value corresponding to the key, is checked for matching.

We will provide the following function, `filter_on_keys`, which does exactly that. This implementation runs through the (remaining) items once per keyword, meaning it's conjunctive — all key–values must match the attribute values of the objects.

We use the function `compare_values` to compare the values, we'll get back to that function below.

78 ⟨*functions* 78⟩≡

```
def filter_on_keys(items, /, **kwargs):
  """
  Input:
  - items is a list of objects.
  - kwargs is a dictionary where keys match the attributes of the objects in
    items.

  Output:
  - Only objects where *all* key--value pairs match for the corresponding
    attribues.
  - If values are strings, the value from kwargs is interpreted as a regular
    expression.

  Example:
  student.first_name = "Student"
  student.last_name = "Studentdotter"

  filter_on_keys([student], firt_name="Student")
    gives [student]
  filter_on_keys([student], firt_name="Student", last_name="Studentsson")
    gives []
  """
```

```
    for key in kwargs:
      items = filter(
        lambda x: compare_values(operator.attrgetter(key)(x), kwargs[key]),
        items)
    return list(items)
```

This definition is continued in chunks 79–81 and 88b.
This code is used in chunk 67a.

We test this function with the following tests.

79a ⟨*test functions* 72a⟩+≡

```
  def test_filter_on_keys():
    class Object:
      pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_keys(students, first_name="Student") == students
    assert ladok3.filter_on_keys(students,
      first_name="Student", last_name="Studentsdotter") == [student1]
    assert ladok3.filter_on_keys(students,
      last_name="Students(dotter|son)") == students
```

This code is used in chunk 67b.

To achieve disjunctive behaviour, we must run `filter_on_keys` once per keyword. However, that causes problems if an item matches on more than one key. The following function solves that problem by not checking an item against more keys once it has matched one key.

79b ⟨*functions* 78⟩+≡

```
  def filter_on_any_key(items, /, **kwargs):
    """
    Input:
    - items is a list of objects.
    - kwargs is a dictionary where keys match the attributes of the objects in
      items.

    Output:
    - Only objects where *any* key--value pairs match for the corresponding
      attribues.
    - If values are strings, the value from kwargs is interpreted as a regular
      expression.

    Example:
    student.first_name = "Student"
    student.last_name = "Studentsdotter"
```

```
    filter_on_keys([student], firt_name="Student")
      gives [student]
    filter_on_keys([student], firt_name="Student", last_name="Studentsson")
      gives [student]
    """
    matching_items = []
    for item in items:
      for key in kwargs:
        if compare_values(operator.attrgetter(key)(item), kwargs[key]):
          matching_items.append(item)
          break

    return matching_items
```

This code is used in chunk 67a.

We test this function with the following tests.

80a ⟨*test functions* 72a⟩+≡

```
  def test_filter_on_any_key():
    class Object:
      pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_any_key(students,
      first_name="Student", last_name="Studentsdotter") == students
```

This code is used in chunk 67b.

The function `compare_values` is how we compare the values. The reason we don't simply replace it with the `==` operator is that for strings, we actually want to use regular expressions for matching. The downside of this is that we might accidentally get substring matches when we expect exact matches. E.g., `F` will match both `F` and `Fx` unless we specify `^F$`.

80b ⟨*functions* 78⟩+≡

```
  def compare_values(val1, val2):
    """
    Compares val1 and val2:
    - if val1 and val2 both are strings, then val2 is interpreted as a regular
      expression.
    - otherwise we use ==
    """
    if isinstance(val1, str) and isinstance(val2, str):
      return re.search(val2, val1)

    return val1 == val2
```

This code is used in chunk 67a.

We test this function with the following tests.

81a ⟨*test functions* 72a⟩+≡

```
def test_compare_values():
  assert ladok3.compare_values("Studentsdotter", "^Student")
  assert ladok3.compare_values("Studentsdotter", "dotter")
  assert not ladok3.compare_values("Studentsdotter", "son")
  assert ladok3.compare_values(1, 1)
  assert not ladok3.compare_values(1, 2)
```

This code is used in chunk 67b.

10.2 Extracting translations

In many cases, LADOK provides several translations. They do that in the form of this JSON structure:

```
{
  "Benamning": [
    {
      "Sprakkod": "sv",
      "Text": "Laborationer",
      "link": []
    },
    {
      "Sprakkod": "en",
      "Text": "Programming Assignments",
      "link": []
    }
  ]
}
```

We provide the function `get_translation` to get the `Text` based on a specified `Sprakkod`.

81b ⟨*functions* 78⟩+≡

```
def get_translation(lang_code, list_of_translations):
  for translation in list_of_translations:
    if translation["Sprakkod"] == lang_code:
      return translation["Text"]
  raise KeyError(f"no translation for language {lang_code}")
```

This code is used in chunk 67a.

Chapter 11

Grading scales

LADOK has various grading scales. Whenever we deal with results, we must use them and their identifiers. We provide classes that wraps LADOK's grading scales: `GradeScale` and `Grade`. We also provide a method, `get_grade_scales`, which returns a list of `GradeScale` objects.

11.1 The `get_grade_scales` method

We start with the method that returns the grading-scales objects. This method interacts with LADOK, so we want to cache its responses. We also want to be able to filter the responses, we do this by keyword arguments.

82 ⟨*LadokSession data methods* 82⟩≡

```
@cachetools.cachedmethod(
  operator.attrgetter("cache"),
  key=functools.partial(cachetools.keys.hashkey, "grade_scale"))
def get_grade_scales(self, /, **kwargs):
  """Return a list of (un)filtered grade scales"""
  if len(kwargs) == 0:
    return [GradeScale(**scale_data)
              for scale_data in self.grade_scales_JSON()]

  return filter_on_keys(self.get_grade_scales(), **kwargs)
```

This definition is continued in chunks 87 and 95.
This code is used in chunk 71.

The `grade_scales_JSON` method is part of the LADOK API and is documented in Section 16.1.

11.2 The `GradeScale` and `Grade` classes

We need a class for grade scales. This object should be read only and we never need to update it, so we can base it on `LadokData`. `kwargs` will have the following format:

```
{
  "Benamning": {
    "sv": "Engradig skala f\u00f6r deltagande",
    "en": "One-grade scale for participation only"
```

```
  },
  "Beskrivning": {},
  "Betygsgrader": [
    {
      "Benamning": {
        "sv": "Deltagit",
        "en": "Participated"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "102041",
      "Kod": "D",
      "Ordningsnummer": 1,
      "link": []
    }
  ],
  "Dolt": true,
  "Giltighetsperiod": {
    "link": []
  },
  "ID": "102040",
  "Kod": "DT",
  "LarosateID": -1,
  "link": []
}
```

This makes the follow class design suitable.

83 ⟨*classes* 71⟩+≡

```
class GradeScale(LadokData):
  """A grade scale"""
  def __init__(self, /, **kwargs):
    super().__init__(**kwargs)

    if "_GradeScale__id" in kwargs:
      self.make_properties(**kwargs)
    else:
      self.__id = int(kwargs.pop("ID"))
      self.__code = kwargs.pop("Kod")
      self.__name = kwargs.pop("Benamning")["sv"]
      self.__grades = [Grade(**grade_data)
                       for grade_data in kwargs.pop("Betygsgrader")]

  @property
  def id(self):
    return self.__id

  @property
  def code(self):
    return self.__code
```

```
@property
def name(self):
  return self.__name

def grades(self, /, **kwargs):
  """Returns grades filtered on keyword"""
  return filter_on_keys(self.__grades, **kwargs)

def __contains__(self, grade):
  ⟨test if grade is in grading scale 85a⟩

def __iter__(self):
  ⟨iterate over grades in grading scale 85b⟩
```

This code is used in chunk 67a.

Then we need a class for the grades themselves. We construct a grade from the LADOK JSON data. We also implement easy comparison so that we can search for the string 'A' instead of the `Grade` object for the A grade.

84 ⟨*classes* 71⟩+≡

```
class Grade(LadokData):
  """An individual grade part of a grade scale"""
  def __init__(self, /, **json_data):
    """Constructor taking a dictionary (JSON-like) structure"""
    if "_Grade__id" in json_data:
      self.make_properties(**json_data)
    else:
      self.__id = int(json_data.pop("ID"))
      self.__code = json_data.pop("Kod")
      self.__accepted = json_data.pop("GiltigSomSlutbetyg")

  @property
  def id(self):
    return self.__id

  @property
  def code(self):
    return self.__code

  def __str__(self):
    return self.code

  @property
  def accepted(self):
    return self.__accepted

  def __eq__(self, other):
    if isinstance(other, Grade):
      return self.__dict__ == other.__dict__
    elif isinstance(other, str):
      return self.code == other
```

```
    else:
      raise NotImplementedError(f"can't test equality with {type(other)}")
```

This code is used in chunk 67a.

Checking if a grade is in a grading scale We can now easily implement the check if a grade is in a grading scale.

85a ⟨*test if grade is in grading scale* 85a⟩≡

```
return grade in self.__grades
```

This code is used in chunk 83.

This works even if `grade` is a string, thanks to how `__eq__` is implemented in the `Grade` class.

Similarly, we can iterate over the grades in the grading scale.

85b ⟨*iterate over grades in grading scale* 85b⟩≡

```
return iter(self.__grades)
```

This code is used in chunk 83.

Chapter 12

Students

This chapter treats how we can work with student data. We can get student data from LADOK using the `LadokSession` class. We first create the `ladok` object, an instance of a LADOK session.

```
import ladok3
import os

ladok = ladok3.LadokSession("KTH",
                            vars={
                                "username": os.environ["KTH_LOGIN"],
                            },
                            test_environment=True) # for experiments

me = ladok.get_student("8506097891")
me2 = ladok.get_student("de709f81-a867-11e7-8dbf-78e86dc2470c")

```

This is the same as in Chapter 9.

Next we want to access data of a student. We can refer to the student by personnummer or the unique LADOK ID.

This gives us objects of the `Student` class. The objects `me` and `me2` both refer to the same person, so the outputs should be the same.

We can see which course instances the student is registered on (throughout history).

```
print(f"{me.ladok_id} == {me2.ladok_id}")
print()
```

We can select a particular course and we can get the results for that course in the same way.

```
for course in me.courses():
    print(f"{course.code} {course.name}")

course = me.courses(code="DD2395")[0]

print(f"{course.code} results:")
```

```
for result in course.results():
    s = f"{course.code}"
    if result.component:
        s += f" {result.component}"
    s += f" {result.grade}"
```

We can check if the result is attested or not. If it's not attested, we can change it.

```
    print(s)
print()

student = ladok.get_student("1234561234")
datintro = student.courses(code="DD1301")[0]

print(f"{student.personnummer} {student.first_name} {student.last_name}")

for result in datintro.results():
    print(f"{result.component} {result.grade} ({result.date})", end="")
    if not result.attested:
        print("*")
    else:
        print()

print("Changing grades")

try:
    lab1 = datintro.results(component="LAB1")[0]
    lab1.set_grade("P", "2022-11-18")
```

12.1 Getting students from LADOK

Perhaps the main data that we want to access is that of a student. We provide two ways to identify the student. The personal identity number (Swedish *personnummer*) and the unique LADOK identifier. These are so different in format that we can distinguish one from the other. However, we an delegate this job to the `Student` class.

87 ⟨*LadokSession data methods* 82⟩+≡

```
  @cachetools.cachedmethod(
    operator.attrgetter("cache"),
    key=functools.partial(cachetools.keys.hashkey, "get_student"))
  def get_student(self, id):
    """Get a student by unique ID, returns a Student object"""
    # note that self is the required LadokSession object
    return Student(ladok=self, id=id)
```

This code is used in chunk 71.

12.2 The `Student` class

We can create a `Student` object from an identifier and a `LadokSession` object. Then the `Student` object can fetch data from LADOK and update any changes.

We can determine if an identifier is a personnummer or LADOK ID. Based on either of those unique identifiers we can fetch the rest of the data using the LADOK session `self.ladok`.

88a ⟨*classes* 71⟩+≡

```
class Student(LadokRemoteData):
  """Class representing a student and related data"""
  def __init__(self, /, **kwargs):
    """Requires ladok (a LadokSession object),
    id (either a personnummer or LADOK ID)"""
    super().__init__(**kwargs)
    id = kwargs.pop("id")
    self.__personnummer = format_personnummer(id)
    if not self.__personnummer:
      self.__ladok_id = id
    else:
      self.__ladok_id = None

  def pull(self):
    """pull student data from LADOK"""
    ⟨pull all attributes from LADOK 90a⟩

  ⟨student attribute methods 89⟩
```

This code is used in chunk 67a.

We use the function `format_personnummer` to format a personnummer according to LADOK's requirements. This function returns `None` if it's not a personnummer, in which case we assume that it is a LADOK ID in the code above.

88b ⟨*functions* 78⟩+≡

```
def format_personnummer(person_nr_raw):
  """Returns None or a LADOK-formated person nr"""
  pnrregex = re.compile(r"^(\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)$")
  pnr = pnrregex.match(person_nr_raw)
  if pnr:
    now = datetime.datetime.now()
    if pnr.group(1) == None: # first digits 19 or 20 missing
      if now.year - 2000 >= int(pnr.group(2)) + 5: # must be > 5 years old
        return "20" + pnr.group(2) + pnr.group(3) + pnr.group(4)
      else:
        return "19" + pnr.group(2) + pnr.group(3) + pnr.group(4)
    else:
      return pnr.group(1) + pnr.group(2) + pnr.group(3) + pnr.group(4)
  else:
    return None
```

This code is used in chunk 67a.

Note that we must match the start and end in the regex, otherwise we sometimes match parts of LADOK IDs as personnummer.

12.3 Students' personal attributes

The student's personal attributes are the following. We use the helper method `__get_personal_attributes` which pulls all personal attributes, since LADOK returns all of these in one call.

89 ⟨*student attribute methods* 89⟩≡

```
def __get_personal_attributes(self):
  """Helper method that fetches personal attributes"""
  ⟨pull student attributes from LADOK 90b⟩

@property
def ladok_id(self):
  """Return the student's LADOK ID"""
  try:
    if self.__ladok_id:
      return self.__ladok_id
  except:
    pass
  self.__get_personal_attributes()
  return self.__ladok_id

@property
def personnummer(self):
  """Return the student's personnummer"""
  try:
    if self.__personnummer:
      return self.__personnummer
  except:
    pass
  self.__get_personal_attributes()
  return self.__personnummer

@property
def first_name(self):
  """Return the student's first name"""
  try:
    return self.__first_name
  except:
    self.__get_personal_attributes()
  return self.__first_name

@property
def last_name(self):
  """Return the student's last name"""
  try:
    return self.__last_name
  except:
    self.__get_personal_attributes()
  return self.__last_name

def __str__(self):
```

```
    return f"{self.personnummer} {self.first_name} {self.last_name}"

  @property
  def alive(self):
    """Return whether student is alive or not"""
    try:
      return self.__alive
    except:
      self.__get_personal_attributes()
    return self.__alive
```

⟨*student contact attribute methods* 90c⟩

This definition is continued in chunks 92 and 94.
This code is used in chunk 88a.

Then we can call that method to update all attributes.

90a ⟨*pull all attributes from LADOK* 90a⟩≡

```
  self.__get_personal_attributes()
```

This definition is continued in chunk 93a.
This code is used in chunk 88a.

When we pull the student attributes from LADOK, we can use either of the two IDs: `self.personnummer` and `self.ladok_id`. (However, we avoid using the properties above in this code, since we don't want to recursively trigger the fetch ad absurdum.) Depending on which attribute is set, we pull the data differently.

90b ⟨*pull student attributes from LADOK* 90b⟩≡

```
  if self.__ladok_id:
    record = self.ladok.get_student_data_by_uid_JSON(self.__ladok_id)
  elif self.__personnummer:
    record = self.ladok.get_student_data_JSON(self.__personnummer)
  else:
    raise AttributeError("neither personnummer, nor LADOK ID set")

  self.__ladok_id = record['Uid']
  self.__personnummer = record['Personnummer'] # twelve digits only
  self.__first_name = record['Fornamn']
  self.__last_name = record['Efternamn']
  self.__alive = not record['Avliden']
```

This code is used in chunk 89.

12.4 Students' contact attributes

The contact attributes include email, phone number, and postal address information. We use the `__get_contact_attributes` helper method to populate these attributes from a separate LADOK API call.

90c ⟨*student contact attribute methods* 90c⟩≡

```
  @property
  def email(self):
    """Return the student's email address"""
    try:
```

```
      return self.__email
    except:
      self.__get_contact_attributes()
    return self.__email

  @property
  def phone(self):
    """Return the student's phone number"""
    try:
      return self.__phone
    except:
      self.__get_contact_attributes()
    return self.__phone

  @property
  def address(self):
    """Return the student's postal address as a list of lines"""
    try:
      return self.__address
    except:
      self.__get_contact_attributes()
    return self.__address

  def __get_contact_attributes(self):
    """Helper method that fetches contact attributes"""
    ⟨pull student contact attributes from LADOK 91⟩
```

This code is used in chunks 89 and 92a.

91 ⟨*pull student contact attributes from LADOK* 91⟩≡

```
  try:
    contact_data = self.ladok.get_student_contact_data_JSON(self.ladok_id)

    # Extract email address
    self.__email = None
    if 'Epost' in contact_data and contact_data['Epost']:
      for email in contact_data['Epost']:
        if 'Adress' in email:
          self.__email = email['Adress']
          break

    # Extract phone number
    self.__phone = None
    if 'Telefon' in contact_data and contact_data['Telefon']:
      for phone in contact_data['Telefon']:
        if 'Nummer' in phone:
          self.__phone = phone['Nummer']
          break

    # Extract postal address
    self.__address = []
```

```
    if 'Postadress' in contact_data and contact_data['Postadress']:
      addr = contact_data['Postadress']
      if isinstance(addr, list) and len(addr) > 0:
        addr = addr[0]
      if isinstance(addr, dict):
        for field in ['Adressrad1', 'Adressrad2', 'Adressrad3']:
          if field in addr and addr[field]:
            self.__address.append(addr[field])
        if 'Postnummer' in addr and addr['Postnummer'] and 'Postort' in addr and addr['Postort']:
          self.__address.append(f"{addr['Postnummer']} {addr['Postort']}")

  except Exception:
    # If contact data can't be retrieved, set default empty values
    self.__email = None
    self.__phone = None
    self.__address = []
```

This code is used in chunk 90c.

92a ⟨*student attribute methods* 89⟩+≡
⟨*student contact attribute methods* 90c⟩

This code is used in chunk 88a.

12.5 Students' study-related attributes

The study related attributes are courses and course results. Similarly to above, we use the `__get_study_attributes` helper method to populate all study-related attributes that LADOK returns in one request.

92b ⟨*student attribute methods* 89⟩+≡

```
  def __get_study_attributes(self):
    """Helper method to fetch study related attributes"""
    ⟨create a list of the student's course objects 93b⟩

  def courses(self, /, **kwargs):
    """
    Returns a list of courses that the student is registered on.
    Filtered based on keywords, see ladok3.filter_on_keys for details.
    """
    try:
      courses = self.__courses
    except:
      self.__get_study_attributes()
      courses = self.__courses

    return filter_on_keys(courses, **kwargs)
```

This code is used in chunk 88a.

Then we can call the last method when we want to pull all attributes too (using the `pull` method).

93a ⟨*pull all attributes from LADOK* 90a⟩+≡
```
self.__get_study_attributes()
```
This code is used in chunk 88a.

To create a list of the student's course registrations, we use the `registrations_JSON` API method.

93b ⟨*create a list of the student's course objects* 93b⟩≡
```
self.__courses = []

for course in self.ladok.registrations_JSON(self.ladok_id):
  if not course['Nuvarande'] or \
    'Utbildningskod' not in course['Utbildningsinformation']:
    continue

  self.__courses.append(CourseRegistration(
    ladok=self.ladok,
    student=self,
    **course["Utbildningsinformation"]))
```
This code is used in chunk 92b.

12.6 Is the student suspended?

We also want to know if a student is suspended or not. We can get a list of suspensions for a student. This list looks like this:

```
[
  {"Anteckning": "VJ-2024-...",
   "Giltighetsperiod": {"Slutdatum": "2024-12-03",
                        "Startdatum": "2024-09-25", "link": []},
   "LarosateID": 29,
   "OrsakID": 101450,
   "SenastAndradAv": "someone@kth.se",
   "SenastSparad": "2024-09-24T16:45:56.941",
   "StudentUID": "...",
   "Uid": "...",
   "link": [{"method": "GET",
             "uri": "https://api.ladok.se:443/studentinformation/internal/avstangning/...",
             "mediaType": "application/vnd.ladok+xml",
             "rel": "self"}]
  }
]
```

Let's make a class for this.

93c ⟨*classes* 71⟩+≡
```
class Suspension(LadokData):
  """A suspension"""
  def __init__(self, /, **kwargs):
    super().__init__(**kwargs)
```

```
      self.__note = kwargs.pop("Anteckning")
      self.__validity = (
        datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Startdatum"]),
        datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Slutdatum"])
      )

    @property
    def note(self):
      """
      The note of the suspension. This is usually a case number.
      """
      return self.__note

    @property
    def validity(self):
      """
      A tuple (start, end) of the validity period of the suspension.
      """
      return self.__validity

    @property
    def is_current(self):
      """
      Is True if the suspension is currently valid.
      """
      return self.validity[0] <= datetime.date.today() <= self.validity[1]

    def __str__(self):
      return f"{self.validity[0]}--{self.validity[1]}"
```

This code is used in chunk 67a.

We never cache this result since we always want the most up-to-date version.

94 ⟨*student attribute methods* 89⟩+≡

```
  @property
  def suspensions(self):
    """
    The list of the students' suspensions.
    """
    suspensions = self.ladok.get_student_suspensions_JSON(
                                            self.ladok_id)["Avstangning"]
    return [Suspension(**suspension) for suspension in suspensions]
```

This code is used in chunk 88a.

Chapter 13

Courses

We can use the course-related classes as follows.

```
#!/usr/bin/python3
# -*- coding: utf-8 -*-
# -*- mode: python; python-indent-offset: 4 -*-
import ladok3
import os

ladok = ladok3.LadokSession("KTH",
                            vars={"username": os.environ["KTH_LOGIN"],
                                  "password": os.environ["KTH_PASSWD"]},
                            test_environment=True) # for experiments

course_rounds = ladok.search_course_rounds(code="DD1315")

for course_round in course_rounds:
    print(f"{course_round.code} {course_round.start}--{course_round.end}")
print()

course_round = course_rounds[0]
print(f"{course_round.code} {course_round.start}--{course_round.end}")
print(f"round: {course_round.round_id}")
print(f"round code: {course_round.round_code}")
print(f"instance: {course_round.instance_id}")
print(f"education: {course_round.education_id}")
print(f"{course_round.code} components:")
for component in course_round.components():
    print(f"{component.code}: {component.instance_id}")
```

13.1 Course rounds

We can search for courses like this. The result consists of a list of `CourseRound` objects.

95 ⟨*LadokSession data methods* 82⟩+≡

```
  @cachetools.cachedmethod(
    operator.attrgetter("cache"),
    key=functools.partial(cachetools.keys.hashkey, "search_courses"))
```

```
  def search_course_rounds(self, /, **kwargs):
    """Query LADOK about course rounds, possible keys:
    code, round_code, name
    """
    results = self.search_course_rounds_JSON(**kwargs)
    return [CourseRound(ladok=self, **result) for result in results]
```

This code is used in chunk 71.

The response consists of this JSON data:

```
{
  "FinansieringsformID": 101050,
  "Slutdatum": "2026-01-12",
  "Startdatum": "2025-08-25",
  "StudielokaliseringID": 135195,
  "StudietaktID": 6,
  "TillfallesKod": "50441",
  "Uid": "c2e79045-b95c-11ef-9553-beecfac44351",
  "UndervisningsformID": 1,
  "Utbildningsinstans": {
    "Avvecklad": false,
    "Benamning": [
      {
        "Sprakkod": "sv",
        "Text": "Programmeringsteknik"
      },
      {
        "Sprakkod": "en",
        "Text": "Programming Techniques"
      }
    ],
    "Enhet": "HP",
    "GallerUtbildningUtanAngivenOmfattning": false,
    "Omfattning": 7.5,
    "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
    "ResultatPaKursVidAttesteringAvModul": false,
    "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
    "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
    "Utbildningskod": "DD1317",
    "Versionsnummer": 1
  }
}
```

We have two classes that are relevant here, `CourseInstance` and `CourseRound`. The `CourseInstance` corresponds to the data in `Utbildningsinstans` above. And the `CourseRound` is the data 'wrapping around' that of the `CourseInstance`. Thus, we will make `CourseRound` a specialization of `CourseInstance`. This makes sense as it contains additional data, such as start and end date. This class takes care of those and then defers the rest to the `CourseInstance` class (by calling its constructor).

96 ⟨*classes* 71⟩+≡

```
  class CourseInstance(LadokRemoteData):
    """Represents a course instance. Must be constructed from at least
```

```
    ladok (a LadokSession object),
    UtbildningsinstansUID (an instance_id from LADOK),
    optionally a data dictionary from LADOK"""
    ⟨CourseInstance methods 98a⟩

  class CourseRound(CourseInstance):
    """Represents a course round"""
    def __init__(self, /, **kwargs):
      """
      Must be constructed from at least:
      Uid, TillfallesKod, Startdatum, Slutdatum
      """
      self.__round_id = kwargs.pop("Uid")
      self.__round_code = kwargs.pop("TillfallesKod")

      self.__start = datetime.date.fromisoformat(kwargs.pop("Startdatum"))
      self.__end = datetime.date.fromisoformat(kwargs.pop("Slutdatum"))

      ⟨prepare kwargs and call CourseInstance constructor 97⟩

    @property
    def round_id(self):
      return self.__round_id

    @property
    def round_code(self):
      return self.__round_code

    @property
    def start(self):
      return self.__start

    @property
    def end(self):
      return self.__end

    ⟨CourseRound data methods 104⟩
```

This code is used in chunk 67a.

The `CourseInstance` constructor expects only the `Utbildningsinstans` part of the data. However, the `Uid` should be renamed `UtbildningsinstansUID`. We must also pass on the `ladok` object.

97 ⟨*prepare kwargs and call CourseInstance constructor* 97⟩≡

```
  instance_data = kwargs.pop("Utbildningsinstans")
  instance_data["UtbildningsinstansUID"] = instance_data.pop("Uid")
  super().__init__(ladok=kwargs.pop("ladok"), **instance_data)
```

This code is used in chunk 96.

13.2 Course instances

We have the course instance as the base class. This is essentially an 'instance of a course syllabus'. We know from above that it inherits from `LadokRemoteData` and that it must be initialized with the keywords `ladok` (for its parent) and `UtbildningsinstansUID` (for itself) and optionally some data.

98a ⟨*CourseInstance methods* 98a⟩≡

```
def __init__(self, /, **kwargs):
  self.__instance_id = kwargs.pop("UtbildningsinstansUID")
  super().__init__(**kwargs) # sets self.ladok

  ⟨CourseInstance constructor body 100a⟩
```

This definition is continued in chunks 100b and 101d.
This code is used in chunk 96.

We can fetch the data from LADOK as follows. Note that we need to use the `round_id` from the `CourseRound` object. This works since we never have a `CourseInstance` object on its own, it's always parent of a `CourseRound` object. (And that makes this kind of ugly from an OOP perspective.)

98b ⟨*fetch CourseInstance data from LADOK* 98b⟩≡

```
data = self.ladok.course_round_components_JSON(self.round_id)
```

This code is used in chunk 100b.

Then data will be populated with the following values:


```
{
  "AntalRegistrerade": 0,
  "Benamning": {
    "sv": "Programmeringsteknik och Matlab",
    "en": "Programming Techniques and Matlab"
  },
  "BetygsskalaID": 131657,
  "Enhet": "HP",
  "GallerUtbildningUtanAngivenOmfattning": false,
  "IngaendeMoment": [
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "38a66848-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "38a6416f-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB1"
    },
    {
      "Benamning": {
```

```
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "38a1d44d-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "38a1867d-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB2"
    },
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131657,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 3.0,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "389b1e62-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "389b1dda-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB3"
    },
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "387c99a9-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "387c7248-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "MAT1"
    }
  ],
  "KravPaProjekttitel": false,
  "Kurstillfalleskod": "51872",
  "Omfattning": 7.5,
  "ResultatrapporteringMojlig": true,
  "Slutdatum": "2022-01-17 ",
  "Startdatum": "2021-08-30 ",
  "Studietaktsbenamning": {
```

```
    "sv": "Kvartsfart",
    "en": "One-quarter-time"
  },
  "Takt": 25,
  "Undervisningsformbenamning": {
    "sv": "Normal",
    "en": "Normal teaching"
  },
  "UtbildningUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
  "UtbildningsinstansUID": "9f30cc02-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "Utbildningskod": "DD1315",
  "Versionsnummer": 2
}
```

Now that we have all data in `data`, we can assign its values to the private attributes. We note, however, that some course instances lack both `Versionsnummer` and `Omfattning`. It seems like faux courses are created to document when students go on Exchanges. These faux courses have a name and code, but no credits or version of syllabus. Consequently they don't have any grading scales either.

Our approach will be to try to assign the attributes using `kwargs`, and if that fails, we will fetch the data (pull from LADOK). If that pull fails with missing data, then we will assume that it's one of these faux courses.

100a ⟨*CourseInstance constructor body* 100a⟩≡

```
try:
  self.__assign_attr(kwargs)
except:
  self.__pull_attributes()
```

This code is used in chunk 98a.

100b ⟨*CourseInstance methods* 98a⟩+≡

```
def __assign_attr(self, data):
  ⟨assign CourseInstance data to private attributes 101b⟩

def __pull_attributes(self):
  ⟨fetch CourseInstance data from LADOK 98b⟩
  try:
    self.__assign_attr(data)
  except:
    self.__assign_faux(data)

def pull(self):
  self.__pull_attributes()

def __assign_faux(self, data):
  ⟨assign faux CourseInstance data to private attributes 101c⟩
```

This code is used in chunk 96.

By trial-and-error, it seems like the faux courses has none of the attributes that the real courses have. However, we try our best.

101a ⟨*assign common CourseInstance data to private attributes* 101a⟩≡

```
self.__components = []
⟨add course components to self.__components 102a⟩
```

This code is used in chunk 101.

101b ⟨*assign CourseInstance data to private attributes* 101b⟩≡

```
⟨assign common CourseInstance data to private attributes 101a⟩

self.__name = data.pop("Benamning")
self.__code = data.pop("Utbildningskod")

self.__credits = data.pop("Omfattning")
self.__unit = data.pop("Enhet")

self.__version = data.pop("Versionsnummer")

self.__education_id = data.pop("UtbildningUID")

self.__grade_scale = self.ladok.get_grade_scales(
  id=data.pop("BetygsskalaID"))
```

This code is used in chunk 100b.

101c ⟨*assign faux CourseInstance data to private attributes* 101c⟩≡

```
⟨assign common CourseInstance data to private attributes 101a⟩

self.__name = data.pop("Benamning", None)
self.__code = data.pop("Utbildningskod", None)

self.__credits = data.pop("Omfattning", None)
self.__unit = data.pop("Enhet", None)

self.__version = data.pop("Versionsnummer", None)

self.__education_id = data.pop("UtbildningUID", None)

try:
  self.__grade_scale = self.ladok.get_grade_scales(
    id=data.pop("BetygsskalaID"))
except KeyError:
  self.__grade_scale = None
```

This code is used in chunk 100b.

Finally, we want to have properties to access the private attributes.

101d ⟨*CourseInstance methods* 98a⟩+≡

```
@property
def instance_id(self):
  return self.__instance_id

@property
```

```
  def education_id(self):
    return self.__education_id

  @property
  def code(self):
    return self.__code

  @property
  def name(self):
    return self.__name["en"]

  @property
  def version(self):
    return self.__version

  @property
  def grade_scale(self):
    return self.__grade_scale

  @property
  def credits(self):
    return self.__credits

  @property
  def unit(self):
    return self.__unit

  def components(self, /, **kwargs):
    """Returns the list of components, filtered on keywords"""
    return filter_on_keys(self.__components, **kwargs)
```

This code is used in chunk 96.

13.2.1 Course components

We need to add the courses components to the course instance. That is things like LAB1 or EXA1 that make up the course in LADOK.

102a ⟨*add course components to* `self.__components` 102a⟩≡

```
  if "IngaendeMoment" in data:
    self.__components += [CourseComponent(
        ladok=self.ladok, course=self,
        **component) for component in data["IngaendeMoment"]]
```

This definition is continued in chunk 102b.
This code is used in chunk 101a.

We also add the course itself as a component. This is to handle the grade on the course itself. Once all the components have a grade, the course itself will get a grade. This component represents that grade. It will get the course code as its code.

102b ⟨*add course components to* `self.__components` 102a⟩+≡

```
  try:
    course_component_data = data.copy()
```

```
    course_component_data["ladok"] = self.ladok
    self.__components.append(CourseComponent(course=self,
                                             **course_component_data))
  except KeyError:
    pass
```

This code is used in chunk 101a.

13.3 Course components

The `CourseComponent` class will make the attributes available. We specify the most interesting ones and let the `LadokData` constructor turn the rest into properties as well, so that they are available for the curious.

Turns out that some course components don't have any credits. This is probably a consequence of being a component in a course with no credits, e.g., one of those faux courses to register exchange studies.

103 ⟨*classes* 71⟩+≡

```
class CourseComponent(LadokData):
  """Represents a course component of a course registration"""
  def __init__(self, /, **kwargs):
    super().__init__(**kwargs)

    self.__course = kwargs.pop("course")

    if "UtbildningsinstansUID" in kwargs:
      self.__instance_id = kwargs.pop("UtbildningsinstansUID")
    else:
      self.__instance_id = kwargs.pop("Uid")

    self.__education_id = kwargs.pop("UtbildningUID")

    self.__code = kwargs.pop("Utbildningskod")
    description = kwargs.pop("Benamning")
    if isinstance(description, dict):
      self.__description = description["sv"]
    else:
      self.__description = description

    self.__credits = kwargs.pop("Omfattning", None)
    self.__unit = kwargs.pop("Enhet", None)

    ladok = kwargs.pop("ladok")
    grade_scale_id = kwargs.pop("BetygsskalaID")
    self.__grade_scale = ladok.get_grade_scales(id=grade_scale_id)[0]

  @property
  def course(self):
    return self.__course

  @property
```

```
  def instance_id(self):
    return self.__instance_id

  @property
  def education_id(self):
    return self.__education_id

  @property
  def code(self):
    """Returns the name of the component (as in syllabus)"""
    return self.__code

  @property
  def description(self):
    """Returns description of component (as in syllabus)"""
    return self.__description

  @property
  def unit(self):
    """Returns the unit for the credits"""
    return self.__unit

  @property
  def credits(self):
    """Returns the number of credits"""
    return self.__credits

  @property
  def grade_scale(self):
    return self.__grade_scale

  def __str__(self):
    return self.code

  def __eq__(self, other):
    if isinstance(other, str):
      return self.code == other
    return self.__dict__ == other.__dict__
```

This code is used in chunk 67a.

We have the latter method, `__eq__`, so that we can filter on keys and compare with strings.

13.4 Results for a course round

We can access the results of all the students during a course round. We do this through the method `results`, which takes keyword arguments to possibly filter the results.

104 ⟨*CourseRound data methods* 104⟩≡

```
  def results(self, /, **kwargs):
```

```
    """Returns all students' results on the course"""
    try:
      self.__results
    except:
      self.__fetch_results()

    return filter_on_keys(self.__results, **kwargs)
```

This definition is continued in chunk 105.
This code is used in chunk 96.

To fetch the results from LADOK, we must do the following query.

105a ⟨*CourseRound data methods* 104⟩+≡

```
  def __fetch_results(self):
    raise NotImplementedError(
      f"{type(self).__name__}.__fetch_results not implemented")
```

This code is used in chunk 96.

13.5 Participants for a course round

We want to get a list of participants for a course round, i.e., a list of `Student` objects.

105b ⟨*CourseRound data methods* 104⟩+≡

```
  def participants(self, /, **kwargs):
    """Returns a Student object for each participant in the course."""
    try:
      self.__participants
    except:
      self.__fetch_participants()

    return filter_on_keys(self.__participants, **kwargs)
```

This code is used in chunk 96.

When we fetch the participants, we don't create new `Student` objects. We use the `get_student` method of the LADOK session object to fetch objects from the cache if they already exist.

105c ⟨*CourseRound data methods* 104⟩+≡

```
  def __fetch_participants(self):
    self.__participants = []
    for student in self.ladok.participants_JSON(self.round_id):
      self.__participants.append(
        self.ladok.get_student(student["Student"]["Uid"]))
```

This code is used in chunk 96.

Chapter 14

Course objects related to students

14.1 Course registrations and a student's results

Students register for a course. The `CourseRegistration` class represents this data from LADOK. This is the object that must be used to get results for a student. This object keeps more info than the course instance.

We note that some registrations lack the 'Utbildningstillfalleskod' attribute. This happens on 'custom courses' like Erasmus exchanges. If that's the case, we use the value `None` in its place.

106 ⟨*classes* 71⟩+≡

```
class CourseRegistration(CourseInstance):
  """Represents a student's participation in a course instance"""
  def __init__(self, /, **kwargs):
    self.__student = kwargs.pop("student")

    # ett Ladok-ID för kursomgången
    self.__round_id = kwargs.pop("UtbildningstillfalleUID")
    self.__round_code = kwargs.pop("Utbildningstillfalleskod", None)

    dates = kwargs.pop("Studieperiod")
    self.__start = datetime.date.fromisoformat(dates["Startdatum"])
    self.__end = datetime.date.fromisoformat(dates["Slutdatum"])

    super().__init__(**kwargs)

  @property
  def round_id(self):
    """Returns LADOK ID for the course round (kursomgång)"""
    return self.__round_id

  @property
  def round_code(self):
    """Returns the human-readable round code (tillfälleskod)"""
    return self.__round_code

  @property
```

```
  def start(self):
    return self.__start

  @property
  def end(self):
    return self.__end

  def __str__(self):
    return f"{self.code} {self.round_code or ''} ({self.start}--{self.end})"

  def __repr__(self):
    return f"{self.code}:{self.round_code or ''}:{self.start}--{self.end}"

  def results(self, /, **kwargs):
    """Returns the student's results on the course, filtered on keywords"""
    try:
      return filter_on_keys(self.__results, **kwargs)
    except:
      self.__fill_results()
    return filter_on_keys(self.__results, **kwargs)

  def __fill_results(self):
    """Helper method to fetch results from LADOK"""
    ⟨pull existing CourseResult objects from LADOK 107⟩
    ⟨add new CourseResult objects for missing components 108b⟩

  def push(self):
    """Pushes any new results"""
    for result in self.results():
      result.push()
```

This code is used in chunk 67a.

We can pull these from LADOK as well. We construct `CourseResult` objects using a `CourseRegistration` object. From the response we get from LADOK, we construct `CourseResult` objects that deal with the details. (It's a bit unclear why `Kursversioner` is a list, so far it has always worked to take the first.)

107 ⟨*pull existing CourseResult objects from LADOK* 107⟩≡

```
response = self.ladok.student_results_JSON(
  self.__student.ladok_id, self.education_id
)["Kursversioner"][0]

self.__results = []

for result in response["VersionensModuler"]:
  try:
    self.__results.append(CourseResult(ladok=self.ladok,
                                       components=self.components(),
                                       student=self.__student,
                                       **result))
  except TypeError:
```

```
      pass
```

This definition is continued in chunk 108a.
This code is used in chunk 106.

As with the components, the course grade itself is a special case. That data is not in `VersionensModuler`, but in `VersionensKurs`. But we can do the same with it, just as we could with the components. (And this works since it's a component in `self.components()`.)

108a ⟨*pull existing CourseResult objects from LADOK* 107⟩+≡

```
  try:
    self.__results.append(CourseResult(ladok=self.ladok,
                                       components=self.components(),
                                       student=self.__student,
                                       **response["VersionensKurs"]))
  except TypeError:
    pass
```

This code is used in chunk 106.

Now we can see which components from `self.components` are missing from `self.__results` and just add empty results for those.

108b ⟨*add new CourseResult objects for missing components* 108b⟩≡

```
  for component in self.components():
    if not list(filter_on_keys(self.__results, component=component.code)):
      self.__results.append(
        CourseResult(
          ladok=self.ladok,
          component=component,
          student=self.__student))
```

This code is used in chunk 106.

14.2 Course results

The `CourseResult` objects have the following form. We have two cases: the result exists in LADOK and the result doesn't exist in LADOK. The difference is in how results are pushed to LADOK, i.e., the implementation of the `push` method.

108c ⟨*classes* 71⟩+≡

```
  class CourseResult(LadokRemoteData):
    """Represents a result on a course module"""
    def __init__(self, /, **kwargs):
      """To construct this object we must give existing data, i.e.
      Arbetsunderlag or SenastAttesteradeResultat directly from LADOK."""
      super().__init__(**kwargs)

      self.__student = kwargs.pop("student")

      self.__attested = False
      self.__finalized = False
      if "component" in kwargs:
        self.__component = kwargs.pop("component")
        self.__populate_attributes()
```

```
    elif "components" in kwargs and "ResultatPaUtbildning" in kwargs:
      components = kwargs.pop("components")

      results = kwargs.pop("ResultatPaUtbildning")

      if "Arbetsunderlag" in results:
        data = results["Arbetsunderlag"]
      elif "SenastAttesteradeResultat" in results:
        self.__attested = True
        self.__finalized = True
        data = results["SenastAttesteradeResultat"]
      else:
        data = kwargs

      self.__populate_attributes(**data, components=components)
    else:
      raise TypeError("not enough keys given to construct object")

  def __populate_attributes(self, /, **data):
    if not data:
      ⟨populate CourseResult attributes for empty result 111b⟩
    else:
      ⟨populate CourseResult attributes from data 111a⟩

  @property
  def component(self):
    """Returns the component the results is for"""
    return self.__component

  @property
  def grade_scale(self):
    """Returns the grade scale for the component"""
    return self.__grade_scale

  @property
  def grade(self):
    """Returns the grade set for the component"""
    return self.__grade

  def set_grade(self, grade, date):
    """Sets a new grade and date for the component"""
    if self.attested:
      raise AttributeError("can't change already attested grade")
    if self.finalized:
      raise AttributeError("can't change finalized grade without "
                           "un-finalizing first")

    ⟨set the grade for CourseResult 112a⟩

    self.__modified = True
```

```
      self.push()

    def finalize(self, graders=[], notify=False):
      """Finalizes the set grade"""
      if self.modified:
        self.push()
```

⟨*finalize the grade for CourseResult* 113b⟩

```
    @property
    def modified(self):
      """Returns True if there are unpushed changes"""
      return self.__modified

    @property
    def date(self):
      """Returns the date of the grade"""
      return self.__date

    @property
    def attested(self):
      """Returns True if the grade has been attested in LADOK"""
      return self.__attested

    @property
    def finalized(self):
      """Returns True if the grade has been finalized (klarmarkerad) in LADOK"""
      try:
        return self.__finalized
      except AttributeError: # can occur with an old cache
        return self.__attested

    def __str__(self):
      return f"{self.component} {self.grade} " \
             f"{self.date}{'*' if not self.attested else ''}"

    def push(self):
      if self.__uid:
        ⟨push the existing CourseResult grade data to LADOK 112b⟩
      else:
        ⟨push the new CourseResult grade data to LADOK 113a⟩
      self.__modified = False
```

This code is used in chunk 67a.

If we get the data from LADOK, then we can fill in all the attributes. We also need to check if the result has been finalized (klarmarkerad). LADOK uses `ProcessStatus` to indicate the state of a result:

1 Draft (Utkast) — can be modified and finalized.

2 Finalized (Klarmarkerad) — ready for examiner attestation, cannot be finalized again.

An attested result has no `ProcessStatus` since it's stored in `SenastAttesteradeResultat` rather than `Arbetsunderlag`.

111a ⟨*populate CourseResult attributes from data* 111a⟩≡

```
self.__uid = data.pop("Uid", None)
self.__instance_id = data.pop("UtbildningsinstansUID")
self.__results_id = data.pop("ResultatUID", None)
self.__study_results_id = data.pop("StudieresultatUID", None)

process_status = data.pop("ProcessStatus", None)
if process_status == 2:
  self.__finalized = True

try:
  grade = data.pop("Betygsgrad", None)
  grade_scale_id = data.pop("BetygsskalaID")
except KeyError:
  grade_scale_id = int(data["Betygsskala"]["ID"])

self.__date = data.pop("Examinationsdatum", None)
self.__grade_scale = self.ladok.get_grade_scales(id=grade_scale_id)[0]
if grade:
  self.__grade = self.__grade_scale.grades(id=grade)[0]
else:
  self.__grade = None

if "components" in data:
  components = data.pop("components")
  component_list = filter_on_keys(components, instance_id=self.__instance_id)
  self.__component = component_list[0] if component_list \
                                       else None

self.__last_modified = data.pop("SenasteResultatandring", None)
self.__modified = False
```

This code is used in chunk 108c.

However, if this is a completely new result, it doesn't exist in LADOK. Then we lack quite a few of the attributes. A new result is neither finalized nor attested.

111b ⟨*populate CourseResult attributes for empty result* 111b⟩≡

```
self.__uid = None
self.__instance_id = self.__component.instance_id

self.__date = None
self.__grade_scale = self.__component.grade_scale
self.__grade = None

self.__finalized = False
self.__modified = False
```

```
self.__last_modified = None
```
This code is used in chunk 108c.

14.2.1 Setting the grade

We can accept the grade either as a grade object or as a string. We must check both values for correctness before we update either of the attributes — otherwise we might end up in an inconsistent state.

112a ⟨*set the grade for CourseResult* 112a⟩≡
```
if isinstance(grade, Grade) and grade not in self.grade_scale.grades():
  raise TypeError(f"The grade {grade} is not in"
    f"the scale {self.grade_scale.code}")
elif isinstance(grade, str):
  try:
    grade = self.grade_scale.grades(code=grade)[0]
  except:
    raise TypeError(
      f"The grade {grade} is not in the scale {self.grade_scale.code}")
else:
  raise TypeError(f"Can't use type {type(grade)} for grade")

if isinstance(date, str):
  date = datetime.date.fromisoformat(date)
elif not isinstance(date, datetime.date):
  raise TypeError(f"Type {type(date)} not supported for date")

self.__grade = grade
self.__date = date
```
This code is used in chunk 108c.

14.2.2 Working with existing results

To push an updated result to LADOK, we do the following.

112b ⟨*push the existing CourseResult grade data to LADOK* 112b⟩≡
```
try:
  response = self.ladok.update_result_JSON(
    self.__uid, self.grade.id, self.date.isoformat(), self.__last_modified
  )
except Exception as err:
  raise LadokError(
    f"couldn't update {self.component.code} to {self.grade} ({self.date})"
    f" to LADOK: {err}"
  )

self.__populate_attributes(**response)
```
This code is used in chunk 108c.

14.2.3 Adding new results

We treat new results differently. Since we don't update an already existing item, we must add a new result to LADOK. Particularly, we must add something to the student's study results.

113a ⟨*push the new CourseResult grade data to LADOK* 113a⟩≡

```
try:
  response = self.ladok.create_result_JSON(
    self.__student.ladok_id,
    self.__component.course.instance_id,
    self.__component.instance_id,
    self.grade.id, self.date.isoformat()
  )
except Exception as err:
  raise LadokError("Couldn't register "
    f"{self.component} {self.grade} {self.date}: {err}")

self.__populate_attributes(**response)
```

This code is used in chunk 108c.

14.2.4 Finalizing a result

When we finalize the result, we must know who reported the result.

113b ⟨*finalize the grade for CourseResult* 113b⟩≡

```
reporter_id = self.ladok.user_info_JSON()["AnvandareUID"]

if notify:
  response = self.ladok.finalize_result_JSON(
    self.__results_id, self.__last_modified, reporter_id, reporter_id,
    others=graders
  )
else:
  response = self.ladok.finalize_result_JSON(
    self.__results_id, self.__last_modified, reporter_id,
    others=graders
  )

self.__populate_attributes(**response)
```

This code is used in chunk 108c.

Part IV

API calls

Chapter 15

Overview of helper functions and methods

We will now document some possible API calls to LADOK. We also document the tests of these functions to illustrate their use.

15.1 Example outputs and test code for the API

We will provide both example outputs and test code. The test code is the test cases we want to be able to run with `pytest` later. We will design the test functions in such a way that we can reuse them to show the example outputs from the API requests.

We will use the following to test the API methods.

115 ⟨*test api.py* 115⟩≡

```
import json
import ladok3
import ladok3.cli
import os
from test_ladok3 import ladok

student_uid = "de709f81-a867-11e7-8dbf-78e86dc2470c"
dasak_instance_id = "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
dasak_education_id = "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
dasak_round_id = "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"
LAB1_uid = "39ca27fe-73d8-11e8-afa7-8e408e694e54"
LAB1_instance_id = "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
KTH_org_id = "2474f616-dc41-11e8-8cc1-eaeeb71b497f"

⟨test functions 120a⟩
```

Root chunk (not used in this document).

We will then add `test_X()` functions in the ⟨*test functions* 120a⟩ code block that will perform the tests. These test functions will also show how to use the functions. Also we will include example output from the function calls in the tests. This is useful for development and when LADOK changes anything in the API.

15.2 Exception classes

LADOK operations can fail in various ways, and it's important to handle these failures gracefully with meaningful error messages. To provide better error handling and debugging capabilities, we define a hierarchy of custom exception classes that represent different types of errors that can occur when working with the LADOK API.

All custom exceptions inherit from a base `LadokError` class, which in turn inherits from Python's built-in `Exception` class. This ensures backward compatibility while providing enhanced error handling capabilities.

15.2.1 Exception class hierarchy

The exception hierarchy is designed to allow applications to catch specific types of errors while still maintaining the ability to catch all LADOK-related errors with a single exception handler.

`LadokError` Base exception class for all LADOK-related errors.

`LadokServerError` For server-side LADOK errors (uses `response.json()["Meddelande"]`).

`LadokValidationError` For data validation errors (invalid person numbers, grades, etc.).

`LadokAPIError` For API/HTTP related errors (network failures, unexpected responses).

`LadokNotFoundError` For resource not found errors (missing courses, components, etc.).

Usage example:

```
import ladok3
import ladok3.cli

try:
    session = ladok3.LadokSession(**ladok3.cli.load_credentials(),
                                  test_environment=True)
    student = session.get_student("invalid-person-nr")
except ladok3.LadokValidationError as e:
    print(f"Invalid data provided: {e}")
except ladok3.LadokServerError as e:
    print(f"LADOK server returned error: {e}")
except ladok3.LadokAPIError as e:
    print(f"Network/API failure: {e}")
except ladok3.LadokError as e:
    print(f"General LADOK error: {e}")
```

This example should yield at least a validation error, since we supply an invalid personnummer to `.get_student`.

15.2.2 Exception class definitions

The exception classes are defined as follows:

117 ⟨*classes* 117⟩≡

```
class LadokError(Exception):
  """
  Base exception class for all LADOK-related errors.

  This is the parent class for all LADOK-specific exceptions. It can be used
  to catch any LADOK-related error in a single exception handler while still
  allowing more specific error handling when needed.

  All other LADOK exception classes inherit from this class, ensuring
  backward compatibility with existing code that catches generic exceptions.
  """
  pass

class LadokServerError(LadokError):
  """
  Exception for server-side LADOK errors.

  This exception is raised when the LADOK server returns an error response,
  typically containing an error message in the response JSON under the
  "Meddelande" key. This indicates that the request reached the server
  successfully, but the server was unable to process it due to business
  logic constraints or data validation issues on the server side.

  Examples:
  - Attempting to register a grade for a student not enrolled in the course
  - Trying to access data that the authenticated user doesn't have permission to view
  - Server-side validation failures
  """
  pass

class LadokValidationError(LadokError):
  """
  Exception for data validation errors.

  This exception is raised when input data fails validation before being
  sent to the LADOK API. This includes format validation, business rule
  validation, and other client-side checks that can be performed without
  contacting the server.

  Examples:
  - Invalid Swedish personal numbers (personnummer)
  - Invalid grade values for a specific grading scale
  - Missing required fields
  - Date format errors
  """
  pass
```

```
class LadokAPIError(LadokError):
  """
  Exception for API/HTTP related errors.

  This exception is raised when there are problems with the HTTP communication
  to the LADOK API or when the API returns unexpected responses. This includes
  network connectivity issues, HTTP protocol errors, and malformed responses.

  Examples:
  - Network connectivity failures
  - HTTP status codes indicating client or server errors
  - Malformed JSON responses
  - Authentication failures
  - Timeouts
  """
  pass

class LadokNotFoundError(LadokError):
  """
  Exception for resource not found errors.

  This exception is raised when a requested resource cannot be found in LADOK.
  This is typically used for HTTP 404 responses or when searching for entities
  that don't exist.

  Examples:
  - Course instances that don't exist
  - Students not found in the system
  - Course components that are not part of a course
  - Non-existent course rounds
  """
  pass
```

Root chunk (not used in this document).

15.3 HTTP queries to LADOK

We will make all queries to LADOK over HTTP as they provide a REST API. This means that we must keep track of some headers and whether we use the test or production system.

15.3.1 Data about the LADOK session

The data that we must keep track of is which URL to use, i.e., which system to access: the production system or test system. To run against the test environment, change the base URL to

`https://start.test.ladok.se`[1]

[1] According to https://ladok.se/drift-och-support/produktionsmiljo-for-nya-ladok.

119a ⟨*LadokSession constructor body* 119a⟩≡
```
self.base_url = "https://start.ladok.se" if not test_environment \
                                          else "https://start.test.ladok.se"
self.base_gui_url = self.base_url + "/gui"
self.base_gui_proxy_url = self.base_gui_url + "/proxy"
```
This definition is continued in chunks 119b and 124a.
Root chunk (not used in this document).

We also set the headers that we will accept.

119b ⟨*LadokSession constructor body* 119a⟩+≡
```
self.headers = { 'Accept' : 'application/vnd.ladok-resultat+json, \
application/vnd.ladok-kataloginformation+json, \
application/vnd.ladok-studentinformation+json, \
application/vnd.ladok-studiedeltagande+json, \
application/vnd.ladok-utbildningsinformation+json, \
application/vnd.ladok-examen+json, \
application/vnd.ladok-extintegration+json, \
application/vnd.ladok-uppfoljning+json, \
application/vnd.ladok-extra+json, \
application/json, \
text/plain'}
```

15.3.2 GET, PUT and POST queries

To make things easier, we will add four methods: `get_query`, `put_query`, `post_query` and `del_query`, which are shortcuts to make GET, PUT, POST and DEL queries to LADOK.

We note that we must record the time of the last GET request to track the freshness of the XSRF token. The other requests track that by the use of the XSRF token itself. We'll get back to this in Section 15.3.3.

A successful HTTP status does not guarantee that we actually received LADOK JSON. When an authenticated session expires, LADOK may redirect us to an HTML login page and still finish with `200 OK`. If we were to call `response.json()` unconditionally in that situation, the user would only see a low-level decoding failure. We therefore decode successful responses through a small helper that raises `LadokAPIError` with the final URL and content type when the body is not JSON.

119c ⟨*functions* 119c⟩≡
```
def response_json_or_error(response, path, method):
  """Return JSON from [[response]] or raise contextual [[LadokAPIError]]."""
  try:
    return response.json()
  except ValueError as err:
    content_type = response.headers.get("content-type", "<missing>")
    body = " ".join(response.text.split())
    if len(body) > 120:
      body = body[:117] + "..."
    raise LadokAPIError(
      f"{method} request to {path} returned non-JSON response "
      f"from {response.url} (Content-Type: {content_type}): {body}") from err
```
This definition is continued in chunks 124 and 125.

Root chunk (not used in this document).

Let's verify the improved error reporting with a synthetic HTML login page. The helper should raise `LadokAPIError` rather than leaking a bare JSON decoding exception.

120a ⟨*test functions* 120a⟩≡

```
def test_response_json_or_error_reports_html_login_pages():
  class Response:
    url = "https://start.ladok.se/gui/loggain"
    headers = {"content-type": "text/html;charset=UTF-8"}
    text = "<html><title>Ladok - start</title></html>"

    def json(self):
      raise ValueError("not json")

  try:
    ladok3.response_json_or_error(Response(), "/studentinformation", "GET")
  except ladok3.LadokAPIError as err:
    assert "non-JSON response" in str(err)
    assert "text/html;charset=UTF-8" in str(err)
    assert "https://start.ladok.se/gui/loggain" in str(err)
  else:
    assert False
```

This definition is continued in chunks 126b, 146–49, 336b, 340b, 356b, 360, 361b, 363, 406, 407b, 409, 411, 414, 417, 419, 427, 429–33, 435–38, 440b, 452b, 536b, 538, 545b, 667, 758b, 833b, 887b, 889b, 893b, 895b, 1024b, 1026b, 1069b, 1099b, 1127, 1134, 1135b, 1141b, 1145, 1158b, 1174, 1303, 1307b, and 1308b.
This code is used in chunk 115.

120b ⟨*LadokSession data methods* 120b⟩≡

```
def get_query(self, path,
              content_type="application/vnd.ladok-resultat+json"):
  """
  Make GET query to LADOK server and return JSON data.

  Args:
    path: API endpoint path
    content_type: HTTP Content-Type header value

  Returns:
    JSON data from the response

  Raises:
    LadokServerError: If the server returns an error message
    LadokAPIError: If the request fails or returns an error status
  """
  headers = self.headers.copy()
  headers["Content-Type"] = content_type

  ⟨record time of request 124b⟩

  response = self.session.get(
```

```
      url=self.base_gui_proxy_url + path,
      headers=headers)

    if response.ok:
      return response_json_or_error(response, path, "GET")
    try:
      error_msg = response.json()["Meddelande"]
      raise LadokServerError(error_msg)
    except:
      error_msg = response.text
    raise LadokAPIError(f"GET request to {path} failed: {error_msg}")

  def put_query(self, path, put_data,
                content_type="application/vnd.ladok-resultat+json"):
    """
    Make PUT query to LADOK server and return JSON data.

    Args:
      path: API endpoint path
      put_data: Data to send in request body
      content_type: HTTP Content-Type header value

    Returns:
      JSON data from the response

    Raises:
      LadokServerError: If the server returns an error message
      LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    response = self.session.put(
      url=self.base_gui_proxy_url + path,
      json=put_data,
      headers=headers)

    if response.ok:
      return response_json_or_error(response, path, "PUT")
    try:
      error_msg = response.json()["Meddelande"]
      raise LadokServerError(error_msg)
    except:
      error_msg = response.text
    raise LadokAPIError(f"PUT request to {path} failed: {error_msg}")

  def post_query(self, path, post_data,
                 content_type="application/vnd.ladok-resultat+json"):
```

```
    """
    Make POST query to LADOK server and return JSON data.

    Args:
      path: API endpoint path
      post_data: Data to send in request body
      content_type: HTTP Content-Type header value

    Returns:
      JSON data from the response

    Raises:
      LadokServerError: If the server returns an error message
      LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    response = self.session.post(
      url=self.base_gui_proxy_url + path,
      json=post_data,
      headers=headers)

    if response.ok:
      return response_json_or_error(response, path, "POST")
    try:
      error_msg = response.json()["Meddelande"]
      raise LadokServerError(error_msg)
    except:
      error_msg = response.text
    raise LadokAPIError(f"POST request to {path} failed: {error_msg}")

  def del_query(self, path):
    """
    Returns DELETE query response for path on the LADOK server.

    Args:
        path (str): API endpoint path

    Returns:
      True, if success but no content is returned.
      JSON data from the response, if any.
      Otherwise the response object.

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
```

```
    headers = self.headers.copy()
    headers["X-XSRF-TOKEN"] = self.xsrf_token

    response = self.session.delete(url=self.base_gui_proxy_url+path,
                                   headers=headers)

    if response.status_code == requests.codes.no_content:
      return True
    if response.ok:
      try:
        return response.json()
      except:
        return response
    try:
      error_msg = response.json()["Meddelande"]
      raise LadokServerError(error_msg)
    except:
      error_msg = response.text
    raise LadokAPIError(f"DELETE request to {path} failed: {error_msg}")
```

This definition is continued in chunks 123, 126a, 145–49, 336a, 340a, 356a, 359, 361a, 362, 405, 407a, 408, 410, 413, 416, 418, 426, 428, 430–34, 436, 437, 440a, 452a, 536a, 537, 545a, 666, 758a, 833a, 887a, 889a, 893a, 895a, 1024a, 1026a, 1069a, 1099a, 1126, 1133, 1135a, 1141a, 1144, 1158a, 1173, 1302, 1307a, and 1308a.

Root chunk (not used in this document).

15.3.3 The XSRF token

We note that the PUT, POST and DEL queries require an XSRF token. They all get it through `self.xsrf_token`. We provide a property for that. LADOK sets the XSRF token when we make our first request. If we haven't made any request, we don't have one. Also, if too long time passes between requests, the existing XSRF token will be invalidated by LADOK.

123 ⟨*LadokSession data methods* 120b⟩+≡

```
  @property
  def xsrf_token(self):
    """
    Get a fresh XSRF token for authenticated requests.

    LADOK requires XSRF tokens for PUT, POST, and DELETE requests. This property
    ensures the token is fresh and valid, triggering a re-login if necessary.

    Returns:
        str: A valid XSRF token for use in authenticated requests.
    """
    ⟨ensure the XSRF token is fresh 124c⟩

    cookies = self.session.cookies.get_dict()
    return cookies["XSRF-TOKEN"]
```

Now, we must ensure there is a fresh XSRF token. There are two cases:

(1) If we don't have an XSRF token, this means that we must log in to get one. Since we use `weblogin`, we'll simply perform a GET request, i.e., one that doesn't require an XSRF token.

(2) If we have one, it might be expired due to a timeout. In this case, we must log in again to get a new one.

This means that we want to keep track of when the last request happened, so we can determine if our XSRF token is fresh or not.

124a ⟨*LadokSession constructor body* 119a⟩+≡
```
self.__access_time = None
self.__timeout = datetime.timedelta(minutes=15)
```

124b ⟨*record time of request* 124b⟩≡
```
self.__access_time = datetime.datetime.now()
```
This code is used in chunks 120b and 124c.

We note here that we assume that whenever the XSRF token is requested, a PUT, POST or DEL request will soon follow. Hence, we can update the time of the last request whenever the XSRF token is read.

124c ⟨*ensure the XSRF token is fresh* 124c⟩≡
```
if (not self.__access_time
    or datetime.datetime.now()-self.__access_time > self.__timeout):
  self.user_info_JSON() # trigger login
else:
  ⟨record time of request 124b⟩
```
This code is used in chunk 123.

15.4 Cleaning data for printing

We sometimes want to print the data, for instance, example output in this document. For this reason we introduce some cleaning functions. These recursively transcends the JSON structure removing the data that should be removed.

124d ⟨*functions* 119c⟩+≡
```
def clean_data(json_obj):
  """
  Clean a JSON object by removing internal links and pseudonymizing personal data.

  Args:
      json_obj (dict or list): The JSON data to clean.

  Returns:
      dict or list: The cleaned JSON object.
  """
  remove_links(json_obj)
  pseudonymize(json_obj)
  return json_obj
```

The `remove_links` functions removes the `link` key–value pairs. The `link` values contains URLs for all requests that data are based on.

125a ⟨*functions* 119c⟩+≡

```
def remove_links(json_obj):
  """
  Recursively removes all "link" keys and values
  """
  if isinstance(json_obj, dict):
    if "link" in json_obj:
      json_obj.pop("link")
    for key, value in json_obj.items():
      remove_links(value)
  elif isinstance(json_obj, list):
    for item in json_obj:
      remove_links(item)
```

The `pseudonymize` function replaces names and personnummer with dummy entries.

125b ⟨*functions* 119c⟩+≡

```
def pseudonymize(json_obj):
  """
  Recursively pseudonymizes a JSON data record
  """
  if isinstance(json_obj, dict):
    if "Fornamn" in json_obj:
      json_obj["Fornamn"] = "Student"
    if "Efternamn" in json_obj:
      json_obj["Efternamn"] = "Studentzadeh"
    if "Personnummer" in json_obj:
      json_obj["Personnummer"] = "191234561234"
    if "Epostadress" in json_obj:
      json_obj["Epostadress"] = "user@domain.se"
    if "Anvandarnamn" in json_obj:
      json_obj["Anvandarnamn"] = "user@domain.se"
    if "Utdelningsadress" in json_obj:
      json_obj["Utdelningsadress"] = "Stora vägen 1"
    if "Postnummer" in json_obj:
      json_obj["Postnummer"] = "12345"
    if "Postort" in json_obj:
      json_obj["Postort"] = "Byn"
    if "Telefonnummer" in json_obj:
      json_obj["Telefonnummer"] = "0701234567"
    for value in json_obj.values():
      pseudonymize(value)
  elif isinstance(json_obj, list):
    for item in json_obj:
      pseudonymize(item)
```

Chapter 16

Grade-related API calls

16.1 `grade_scales_JSON`

To request the grading scales from LADOK, we request all of them and return a list of JSON data objects containing the grading scale data.

126a ⟨*LadokSession data methods* 120b⟩+≡

```
def grade_scales_JSON(self):
  """
  Fetch all grading scales from LADOK.

  Returns:
      list: A list of JSON objects containing grading scale data from LADOK.

  Raises:
      Exception: If the request fails or returns an error status.
  """
  data = self.get_query(
    "/kataloginformation/internal/grunddata/betygsskala",
    content_type="application/vnd.ladok-kataloginformation+json;charset=UTF-8"
  )

  try:
    return data["Betygsskala"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when fetching grading scales: "
                        f"missing 'Betygsskala' key") from err
```

We add the following test. If we can convert the return value do JSON, it's probably correct. (No this isn't the best of tests.)

126b ⟨*test functions* 120a⟩+≡

```
def test_grade_scales_JSON():
  assert ladok.grade_scales_JSON()
```

This code is used in chunk 115.

The output looks like this.


```
[
  {
    "Benamning": {
      "sv": "Engradig skala för deltagande",
      "en": "One-grade scale for participation only"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Deltagit",
          "en": "Participated"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102041",
        "Kod": "D",
        "Ordningsnummer": 1
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "102040",
    "Kod": "DT",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Engradig skala",
      "en": "One-grade scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "1907",
        "Kod": "G",
        "Ordningsnummer": 2
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "1",
    "Kod": "FOG",
```

```
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Fyrgradig skala, sifferbetyg",
      "en": "Four-grade scale, digits"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Mycket väl godkänd",
          "en": "Pass with distinction"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102036",
        "Kod": "5",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Väl godkänd",
          "en": "Pass with credit"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102037",
        "Kod": "4",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102038",
        "Kod": "3",
        "Ordningsnummer": 3
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Fail"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "102039",
        "Kod": "U",
```

```
        "Ordningsnummer": 4
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "102035",
    "Kod": "TH",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Tvågradig skala",
      "en": "Two-grade scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "2302",
        "Kod": "G",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Fail"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "2303",
        "Kod": "U",
        "Ordningsnummer": 2
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "2",
    "Kod": "UG",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Fyrgradig skala, bokstavsbetyg",
      "en": "Four-grade scale, letters"
    },
    "Beskrivning": {},
```

```
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Med beröm godkänd",
          "en": "Pass with distinction"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102031",
        "Kod": "AB",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Icke utan beröm godkänd",
          "en": "Pass with credit"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102032",
        "Kod": "BA",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "102033",
        "Kod": "B",
        "Ordningsnummer": 3
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Fail"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "102034",
        "Kod": "U",
        "Ordningsnummer": 4
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "102030",
    "Kod": "UM",
    "LarosateID": -1
```

```
  },
  {
    "Benamning": {
      "sv": "Tregradig skala",
      "en": "Three-grade scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Väl godkänd",
          "en": "Pass with distinction"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "101313",
        "Kod": "VG",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "101314",
        "Kod": "G",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Fail"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "101315",
        "Kod": "U",
        "Ordningsnummer": 3
      }
    ],
    "Dolt": false,
    "Giltighetsperiod": {},
    "ID": "101312",
    "Kod": "UV",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Z_Felaktig",
```

```
      "en": "Three-grade scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Väl godkänd",
          "en": "Pass with distinction"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "101311",
        "Kod": "VG",
        "Ordningsnummer": 1
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {
      "Slutdatum": "0001-01-01"
    },
    "ID": "101310",
    "Kod": "UVX",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "Sjugradig betygsskala",
      "en": "Seven point grading scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Utmärkt",
          "en": "Excellent"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131661",
        "Kod": "A",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Mycket bra",
          "en": "Very Good"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131667",
        "Kod": "B",
```

```
      "Ordningsnummer": 2
    },
    {
      "Benamning": {
        "sv": "Bra",
        "en": "Good"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131673",
      "Kod": "C",
      "Ordningsnummer": 3
    },
    {
      "Benamning": {
        "sv": "Tillfredsställande",
        "en": "Satisfactory"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131679",
      "Kod": "D",
      "Ordningsnummer": 4
    },
    {
      "Benamning": {
        "sv": "Tillräcklig",
        "en": "Sufficient"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131691",
      "Kod": "E",
      "Ordningsnummer": 5
    },
    {
      "Benamning": {
        "sv": "Underkänd",
        "en": "Not satisfactory"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": false,
      "ID": "131696",
      "Kod": "FX",
      "Ordningsnummer": 6
    },
    {
      "Benamning": {
        "sv": "Underkänd",
        "en": "Failed"
      },
```

```
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131697",
        "Kod": "F",
        "Ordningsnummer": 7
      }
    ],
    "Dolt": false,
    "Giltighetsperiod": {
      "Startdatum": "2007-07-01"
    },
    "ID": "131657",
    "Kod": "AF",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "GD",
      "en": "GD"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131680",
        "Kod": "G",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Deltagit",
          "en": "Attended"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131688",
        "Kod": "D",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
```

```
        "ID": "131689",
        "Kod": "U",
        "Ordningsnummer": 3
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "131650",
    "Kod": "GD",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "MH",
      "en": "MH"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Fem+",
          "en": "Five+"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131660",
        "Kod": "55",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Fem",
          "en": "Five"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131664",
        "Kod": "50",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Fyra+",
          "en": "Four+"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131674",
        "Kod": "45",
        "Ordningsnummer": 3
      },
```

```
        {
          "Benamning": {
            "sv": "Fyra",
            "en": "Four"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131678",
          "Kod": "40",
          "Ordningsnummer": 4
        },
        {
          "Benamning": {
            "sv": "Fem++",
            "en": "Five++"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131692",
          "Kod": "60",
          "Ordningsnummer": 5
        },
        {
          "Benamning": {
            "sv": "Tre+",
            "en": "Three+"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131693",
          "Kod": "35",
          "Ordningsnummer": 6
        },
        {
          "Benamning": {
            "sv": "Tre",
            "en": "Three"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131694",
          "Kod": "30",
          "Ordningsnummer": 7
        },
        {
          "Benamning": {
            "sv": "Underkänd",
            "en": "Not satisfactory"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": false,
```

```
        "ID": "131695",
        "Kod": "U",
        "Ordningsnummer": 8
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "131651",
    "Kod": "MH",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "Okänd betygsskala",
      "en": "Unknown grading scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131672",
        "Kod": "FX",
        "Ordningsnummer": 1
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {
      "Slutdatum": "2018-06-19"
    },
    "ID": "131654",
    "Kod": "OKÄND",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "Tvågradig betygsskala",
      "en": "Two point grading scale"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
```

```
        "GiltigSomSlutbetyg": true,
        "ID": "131658",
        "Kod": "P",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Failed"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131663",
        "Kod": "F",
        "Ordningsnummer": 2
      }
    ],
    "Dolt": false,
    "Giltighetsperiod": {},
    "ID": "131656",
    "Kod": "PF",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "SS",
      "en": "SS"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Sex",
          "en": "Six"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131665",
        "Kod": "6",
        "Ordningsnummer": 1
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "131653",
    "Kod": "SS",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "TH",
```

```
      "en": "TH"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Fem",
          "en": "Five"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131675",
        "Kod": "5",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Fyra",
          "en": "Four"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131677",
        "Kod": "4",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Tre",
          "en": "Three"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131682",
        "Kod": "3",
        "Ordningsnummer": 3
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131690",
        "Kod": "U",
        "Ordningsnummer": 4
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {
```

```
      "Slutdatum": "2018-06-19"
    },
    "ID": "131669",
    "Kod": "TH",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "TP",
      "en": "TP"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Fem",
          "en": "Five"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131666",
        "Kod": "5",
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Fyra",
          "en": "Four"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131698",
        "Kod": "4",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Tre",
          "en": "Three"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131699",
        "Kod": "3",
        "Ordningsnummer": 3
      },
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
```

```
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131700",
        "Kod": "G",
        "Ordningsnummer": 4
      },
      {
        "Benamning": {
          "sv": "Deltagit",
          "en": "Attended"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131701",
        "Kod": "D",
        "Ordningsnummer": 5
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131702",
        "Kod": "U",
        "Ordningsnummer": 6
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "131652",
    "Kod": "TP",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "UV",
      "en": "UV"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Väl godkänd",
          "en": "Pass with Distinction"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131670",
        "Kod": "VG",
```

```
        "Ordningsnummer": 1
      },
      {
        "Benamning": {
          "sv": "Godkänd",
          "en": "Pass"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131671",
        "Kod": "G",
        "Ordningsnummer": 2
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131676",
        "Kod": "U",
        "Ordningsnummer": 3
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {
      "Slutdatum": "2018-06-19"
    },
    "ID": "131668",
    "Kod": "UV",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "XX",
      "en": "XX"
    },
    "Beskrivning": {},
    "Betygsgrader": [
      {
        "Benamning": {
          "sv": "Sju",
          "en": "Seven"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131659",
        "Kod": "7",
        "Ordningsnummer": 1
      },
```

```
        {
          "Benamning": {
            "sv": "Sex",
            "en": "Six"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131662",
          "Kod": "6",
          "Ordningsnummer": 2
        },
        {
          "Benamning": {
            "sv": "Fem",
            "en": "Five"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131681",
          "Kod": "5",
          "Ordningsnummer": 3
        },
        {
          "Benamning": {
            "sv": "Fyra",
            "en": "Four"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131683",
          "Kod": "4",
          "Ordningsnummer": 4
        },
        {
          "Benamning": {
            "sv": "Tre",
            "en": "Tree"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
          "ID": "131684",
          "Kod": "3",
          "Ordningsnummer": 5
        },
        {
          "Benamning": {
            "sv": "Godkänd",
            "en": "Pass"
          },
          "Dolt": false,
          "GiltigSomSlutbetyg": true,
```

```
        "ID": "131685",
        "Kod": "G",
        "Ordningsnummer": 6
      },
      {
        "Benamning": {
          "sv": "Deltagit",
          "en": "Attended"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131686",
        "Kod": "D",
        "Ordningsnummer": 7
      },
      {
        "Benamning": {
          "sv": "Underkänd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131687",
        "Kod": "U",
        "Ordningsnummer": 8
      }
    ],
    "Dolt": true,
    "Giltighetsperiod": {},
    "ID": "131655",
    "Kod": "XX",
    "LarosateID": 29
  }
]
```

Chapter 17

Student-related API calls

Here we have collected API-calls related to students.

17.1 `get_student_data_JSON` and `get_student_data_by_uid_JSON`

This method fetches the basic information about a student based on personnummer. To pull the data based on personnummer we must actually form a search query. (This code is a merge of a slight adaptation of the code by Baltatzis and that of Chip.)

145 ⟨*LadokSession data methods* 120b⟩+≡

```
  ########################################################################
  #
  # get_student_data_JSON
  #
  # person_nr          - personnummer, flera format accepteras enligt regex:
  #                      (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
  #
  # lang               - language code 'en' or 'sv', defaults to 'sv'
  #
  # RETURNERAR en dictionary med för- och efternamn and more
  def get_student_data_JSON(self, person_nr_raw, lang = 'sv'):
    """
    Get student data from LADOK using a Swedish personal number (personnummer).

    Args:
        person_nr_raw (str): Swedish personal number in format YYYYMMDD-XXXX or similar
        lang (str, optional): Language code 'en' or 'sv'. Defaults to 'sv'.

    Returns:
        dict: Student data dictionary containing name, contact info, and more.

    Raises:
        Exception: If the personal number format is invalid.
        ValueError: If student cannot be found or multiple matches found.
    """
    person_nr =  format_personnummer(person_nr_raw)
```

```
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    response = self.session.get(
      url=self.base_gui_proxy_url +
        "/studentinformation/internal/student/filtrera"
        f"?personnummer={person_nr}"
        "&limit=2&page=1"
        "&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC"
        "&orderby=PERSONNUMMER_ASC",
      headers=self.headers)

    if response.status_code == requests.codes.ok:
      record = response.json()["Resultat"]
    else:
      raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"bad response: {response.text}")

    if len(record) != 1:
      raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"not a unique match: {record}")

    return record[0]
```

To test this function, we do the following.

146a ⟨*test functions* 120a⟩+≡

```
  def test_get_student_data_JSON():
    assert ladok.get_student_data_JSON("8506097891")
```

This code is used in chunk 115.

We also have the corresponding for LADOK's UID, which fetches the record directly.

146b ⟨*LadokSession data methods* 120b⟩+≡

```
  ########################################################################
  #
  # get_student_data_by_uid_JSON
  #
  # uid                - Ladok ID
  #
  # RETURNERAR en dictionary med för- och efternamn and more
  def get_student_data_by_uid_JSON(self, uid):
    """
    Get student data from LADOK using a LADOK UID.

    Args:
        uid (str): The student's unique LADOK identifier.

    Returns:
        dict: Student data dictionary containing personal information.
```

```
    Raises:
        AttributeError: If student cannot be found by the given UID.
    """
    data = self.get_query(
      f"/studentinformation/internal/student/{uid}",
      content_type="application/vnd.ladok-studentinformation+json;charset=UTF-8")

    return data
```

To test this function, we do the following.

147a ⟨*test functions* 120a⟩+≡

```
def test_get_student_data_by_uid_JSON():
  assert ladok.get_student_data_by_uid_JSON(student_uid)
```

This code is used in chunk 115.

The result is the same for both method.

```
{
  "Avliden": false,
  "Efternamn": "Studentzadeh",
  "ExterntUID": "0b95cffc-3ba4-405f-b8d6-5edf2e014420",
  "FelVidEtableringExternt": false,
  "Fodelsedata": "1985-06-09",
  "FolkbokforingsbevakningTillOchMed": "2027-04-11",
  "Fornamn": "Student",
  "KonID": 2,
  "Personnummer": "191234561234",
  "SenastAndradAv": "system@ladokintern",
  "SenastSparad": "2026-02-09T21:00:49.778",
  "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
}
```

17.2 get_student_contact_data_JSON

We want to get the contact info for a student from LADOK. This data includes email, postal address and phone number. It also includes when they were last updated.

147b ⟨*LadokSession data methods* 120b⟩+≡

```
def get_student_contact_data_JSON(self, student_id):
  """
  Returns contact data for student with student_id, returns JSON
  """
  try:
    return self.get_query(
      f"/studentinformation/internal/student/{student_id}/kontaktuppgifter",
      "application/vnd.ladok-studentinformation+json"
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to get contact data for "
                        f"student {student_id}: {err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when getting contact data for "
```

```
                                f"student {student_id}: {err}") from err
```

We test this function.

148a ⟨*test functions* 120a⟩+≡

```
def test_get_student_contact_data_JSON():
  assert ladok.get_student_contact_data_JSON(student_uid)
```

This code is used in chunk 115.

The output is as follows.

```
{
  "Epostadress": "user@domain.se",
  "EpostadressSenastAndrad": "2018-06-19T17:42:23.441",
  "LarosateID": -1,
  "Postadresser": [
    {
      "PostadressTyp": "FOLKBOKFORINGSADRESS",
      "Utdelningsadress": "Stora vägen 1",
      "Postnummer": "12345",
      "Postort": "Byn",
      "Land": "Sverige",
      "SenastAndrad": "2018-09-21T14:20:24.679"
    }
  ],
  "SenastAndradAv": "informationskonverterare@kth",
  "SenastSparad": "2018-06-19T17:42:23.457",
  "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
  "Telefonnummer": "0701234567",
  "TelefonnummerSenastAndrad": "2018-06-19T17:42:23.441",
  "Uid": "2ad333ce-a894-11e7-8f03-147ba8e44f36"
}
```

17.3 get_student_suspensions_JSON

We want to check if any student is suspended from studies. We can get a list of all suspension periods from LADOK.

148b ⟨*LadokSession data methods* 120b⟩+≡

```
def get_student_suspensions_JSON(self, student_id):
  """
  Returns suspensions from studies for student with student_id,
  returns JSON
  """
  try:
    return self.get_query(
      f"/studentinformation/internal/avstangning/student/{student_id}",
      "application/vnd.ladok-studentinformation+json"
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to get suspensions for "
                        f"student {student_id}: {err}") from err
  except LadokServerError as err:
```

```
    raise LadokServerError(f"LADOK server error when getting suspensions for "
                           f"student {student_id}: {err}") from err
```

We test this function.

149a ⟨*test functions* 120a⟩+≡

```
def test_get_student_suspensions_JSON():
  assert ladok.get_student_suspensions_JSON(student_uid)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Avstangning": []
}
```

17.4 `registrations_JSON`

This methods returns *all* registrations for a student, i.e., registrations on courses and programmes.

149b ⟨*LadokSession data methods* 120b⟩+≡

```
def registrations_JSON(self, student_id):
  """
  Return all registrations for student with ID student_id.
  """
  data = self.get_query(
    "/studiedeltagande/internal/tillfallesdeltagande/kurstillfallesdeltagande"
      f"/student/{student_id}",
    "application/vnd.ladok-studiedeltagande+json"
  )

  try:
    return data["Tillfallesdeltaganden"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when fetching registrations for "
                        f"student {student_id}: missing 'Tillfallesdeltaganden' key") from err
```

We provide the following test.

149c ⟨*test functions* 120a⟩+≡

```
def test_registrations_JSON():
  results = ladok.registrations_JSON(student_uid)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
[
  {
    "Aterbud": false,
    "Avklarad": false,
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
```

```
    "Paborjad": true,
    "Perioddeltaganden": [
      {
        "Anpassat": false,
        "Omfattningsvarde": "0.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "e2bbf16e-73db-11e8-b9fd-0a821ba7448e",
        "Periodindex": 1,
        "Registreringsperiod": {
          "Slutdatum": "2014-12-31",
          "Startdatum": "2014-07-21"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2014-07-21",
        "UtbildningsPeriodTill": "2014-12-31"
      },
      {
        "Anpassat": false,
        "Omfattningsvarde": "0.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "e2bbf16f-73db-11e8-b9fd-0a821ba7448e",
        "Periodindex": 2,
        "Registreringsperiod": {
          "Slutdatum": "2015-06-30",
          "Startdatum": "2015-01-01"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2015-01-01",
        "UtbildningsPeriodTill": "2015-06-30"
      },
      {
        "Anpassat": false,
        "Omfattningsvarde": "0.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "e2bbf170-73db-11e8-b9fd-0a821ba7448e",
        "Periodindex": 3,
        "Registreringsperiod": {
          "Slutdatum": "2015-12-31",
          "Startdatum": "2015-07-01"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2015-07-01",
        "UtbildningsPeriodTill": "2015-12-31"
      },
      {
        "Anpassat": false,
        "Omfattningsvarde": "0.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "e2bbf171-73db-11e8-b9fd-0a821ba7448e",
        "Periodindex": 4,
        "Registreringsperiod": {
```

```
        "Slutdatum": "2016-06-30",
        "Startdatum": "2016-01-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2016-01-01",
      "UtbildningsPeriodTill": "2016-06-30"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "e2bbf172-73db-11e8-b9fd-0a821ba7448e",
      "Periodindex": 5,
      "Registreringsperiod": {
        "Slutdatum": "2016-12-31",
        "Startdatum": "2016-07-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2016-07-01",
      "UtbildningsPeriodTill": "2016-12-31"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "e2bbf173-73db-11e8-b9fd-0a821ba7448e",
      "Periodindex": 6,
      "Registreringsperiod": {
        "Slutdatum": "2017-06-30",
        "Startdatum": "2017-01-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2017-01-01",
      "UtbildningsPeriodTill": "2017-06-30"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "e2bbf174-73db-11e8-b9fd-0a821ba7448e",
      "Periodindex": 7,
      "Registreringsperiod": {
        "Slutdatum": "2017-12-31",
        "Startdatum": "2017-07-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2017-07-01",
      "UtbildningsPeriodTill": "2017-12-31"
    },
    {
      "Anpassat": false,
```

```
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "e2bbf175-73db-11e8-b9fd-0a821ba7448e",
      "Periodindex": 8,
      "Registreringsperiod": {
        "Slutdatum": "2018-06-30",
        "Startdatum": "2018-01-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2018-01-01",
      "UtbildningsPeriodTill": "2018-06-30"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "1f617c1b-bfdd-11e8-8049-fd7fef4b484c",
      "Periodindex": 9,
      "Registreringsperiod": {
        "Slutdatum": "2018-12-31",
        "Startdatum": "2018-07-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2018-07-01",
      "UtbildningsPeriodTill": "2018-12-31"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "1f617c1c-bfdd-11e8-8049-fd7fef4b484c",
      "Periodindex": 10,
      "Registreringsperiod": {
        "Slutdatum": "2019-06-30",
        "Startdatum": "2019-01-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "UtbildningsPeriodFran": "2019-01-01",
      "UtbildningsPeriodTill": "2019-06-30"
    },
    {
      "Anpassat": false,
      "Omfattningsvarde": "0.0",
      "Periodbenamningar": {},
      "PerioddeltagandeUID": "a0976dac-b515-11e9-a427-41cc12dd4dc3",
      "Periodindex": 11,
      "Registreringsperiod": {
        "Slutdatum": "2019-12-31",
        "Startdatum": "2019-07-01"
      },
      "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
```

```
        "UtbildningsPeriodFran": "2019-07-01",
        "UtbildningsPeriodTill": "2019-12-31"
      },
      {
        "Anpassat": false,
        "Omfattningsvarde": "0.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "f9598cf9-3158-11ea-88ee-aa17e0384779",
        "Periodindex": 12,
        "Registreringsperiod": {
          "Slutdatum": "2020-06-30",
          "Startdatum": "2020-01-01"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2020-01-01",
        "UtbildningsPeriodTill": "2020-06-30"
      }
    ],
    "Sparrad": false,
    "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
    "SummeradGodkandOmfattning": "0.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
    },
    "Uid": "e2ba1cad-73db-11e8-b9fd-0a821ba7448e",
    "Utbildningsinformation": {
      "AntalPerioder": 12,
      "Benamning": {
        "sv": "Doktorsavhandling",
        "en": "Doctoral thesis"
      },
      "Enhetskod": "HP",
      "LarosateID": 29,
      "PeriodIOrdning": "0",
      "Perioder": [
        {
          "Index": 1,
          "Omfattningsvarde": "0.0",
          "Slutdatum": "2014-12-31",
          "Startdatum": "2014-07-21",
          "Uid": "89a69d8d-73db-11e8-afa7-8e408e694e54"
        },
        {
          "Index": 2,
          "Omfattningsvarde": "0.0",
          "Slutdatum": "2015-06-30",
```

```
            "Startdatum": "2015-01-01",
            "Uid": "89a69d8e-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 3,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2015-12-31",
            "Startdatum": "2015-07-01",
            "Uid": "89a69d8f-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 4,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2016-06-30",
            "Startdatum": "2016-01-01",
            "Uid": "89a69d90-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 5,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2016-12-31",
            "Startdatum": "2016-07-01",
            "Uid": "89a69d91-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 6,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2017-06-30",
            "Startdatum": "2017-01-01",
            "Uid": "89a69d92-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 7,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2017-12-31",
            "Startdatum": "2017-07-01",
            "Uid": "89a69d93-73db-11e8-afa7-8e408e694e54"
          },
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            "en": "Full-time"
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            "en": "Full-time"
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            "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
            "Varde": "varning"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
            "Regelnamn": "commons.domain.regel.kan.utannonseras",
            "Varde": "true"
          }
        ]
      },
      "Sjalvstandig": false
    },
    "Utbildningstyp": {
      "Benamningar": {
        "sv": "Kurs, avancerad nivå",
        "en": "Course, Second-cycle"
      },
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": 24,
      "Kod": "2007AKURS",
      "RegelverkForUtbildningstyp": {
        "Regelvarden": [
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            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
            "Varde": "20"
          },
```

```
            {
              "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  },
  {
    "Aterbud": false,
    "Avklarad": true,
    "Godkannandedatum": "2018-10-08",
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
    "Paborjad": true,
    "Perioddeltaganden": [
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        "Periodindex": 1,
        "Registreringsperiod": {
          "Slutdatum": "2018-03-26",
          "Startdatum": "2018-03-12"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2018-03-19",
        "UtbildningsPeriodTill": "2018-06-04"
      }
    ],
    "Sparrad": false,
    "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
    "SummeradGodkandOmfattning": "5.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
```

```
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
    },
    "Uid": "b8444cc2-af6d-11e8-b2d8-8f5393644fae",
    "Utbildningsinformation": {
      "AntalPerioder": 1,
      "Benamning": {
        "sv": "Genomföra systematiska litteraturstudier i systemteknik",
        "en": "Conducting Systematic Literature Reviews in Systems Engineering"
      },
      "Enhetskod": "HP",
      "FinansieringsformID": 131713,
      "LarosateID": 29,
      "Omfattningsvarde": "5.0",
      "PeriodIOrdning": "0",
      "Perioder": [
        {
          "Index": 1,
          "Omfattningsvarde": "5.0",
          "Slutdatum": "2018-06-04",
          "Startdatum": "2018-03-19",
          "Uid": "5453634a-7ddf-11e8-9a5f-3c9998814fb7"
        }
      ],
      "SarskildSekretessprovning": false,
      "Studielokalisering": {
        "sv": "Stockholm",
        "en": "Stockholm"
      },
      "Studielokaliseringrepresentation": {
        "Benamningar": {
          "sv": "Stockholm",
          "en": "Stockholm"
        },
        "Giltighetsperiod": {
          "Slutdatum": "2019-01-14",
          "Startdatum": "1917-10-19"
        },
        "ID": 131778,
        "Kod": "0180"
      },
      "StudieordningID": "1",
      "Studieperiod": {
        "Slutdatum": "2018-06-04",
        "Startdatum": "2018-03-19"
      },
      "Studietakt": {
```

```
          "Benamning": {
            "sv": "Kvartsfart",
            "en": "One-quarter-time"
          },
          "Takt": 25
        },
        "Undervisningsform": {
          "Benamningar": {
            "sv": "Normal",
            "en": "Normal teaching"
          },
          "Giltighetsperiod": {},
          "ID": 1
        },
        "UtbildningUID": "9b5a3301-73d8-11e8-afa7-8e408e694e54",
        "UtbildningensOmfattningsvarde": "5.0",
        "UtbildningsinstansUID": "9b5a0c26-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningskod": "FJP3101",
        "UtbildningstillfalleUID": "54533c35-7ddf-11e8-9a5f-3c9998814fb7",
        "Utbildningstillfalleskod": "61354",
        "Utbildningstillfallestyp": {
          "Benamningar": {
            "sv": "Kurstillfälle, forskarnivå",
            "en": "Course instance, Third-cycle"
          },
          "Giltighetsperiod": {},
          "Grundtyp": "KURS",
          "ID": 101955,
          "Kod": "2007FKTF",
          "RegelverkForUtbildningstyp": {
            "Regelvarden": [
              {
                "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
                "Varde": "true"
              },
              {
                "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                "Varde": "grupp.for.utsokning.forskarniva"
              }
            ]
          },
          "Sjalvstandig": false
        },
        "Utbildningstyp": {
          "Benamningar": {
            "sv": "Kurs, forskarnivå",
            "en": "Course, Third-cycle"
          },
          "Giltighetsperiod": {},
          "Grundtyp": "KURS",
          "ID": 101954,
```

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        "Kod": "2007FKURS",
        "RegelverkForUtbildningstyp": {
          "Regelvarden": [
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  },
  {
    "Aterbud": false,
    "Avklarad": false,
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
    "Paborjad": true,
    "Perioddeltaganden": [
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        "Anpassat": false,
        "Omfattningsvarde": "5.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "a6776912-f00f-11e9-8679-1d653f8f4f42",
        "Periodindex": 1,
        "Registreringsperiod": {
          "Slutdatum": "2019-09-02",
          "Startdatum": "2019-08-22"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2019-08-26",
        "UtbildningsPeriodTill": "2019-10-25"
      }
    ],
    "Sparrad": false,
    "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
```

```
    "SummeradGodkandOmfattning": "0.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
    },
    "Uid": "a676f3e1-f00f-11e9-8679-1d653f8f4f42",
    "Utbildningsinformation": {
      "AntalPerioder": 1,
      "Benamning": {
        "sv": "Forskningsmetoder i teknikstött lärande",
        "en": "Research Methods in Technology Enhanced Learning"
      },
      "Enhetskod": "HP",
      "FinansieringsformID": 131713,
      "LarosateID": 29,
      "Omfattningsvarde": "5.0",
      "PeriodIOrdning": "0",
      "Perioder": [
        {
          "Index": 1,
          "Omfattningsvarde": "5.0",
          "Slutdatum": "2019-10-25",
          "Startdatum": "2019-08-26",
          "Uid": "f6d43058-91b5-11e9-be70-a303c1114884"
        }
      ],
      "SarskildSekretessprovning": false,
      "Studielokalisering": {
        "sv": "KTH Campus",
        "en": "KTH Campus"
      },
      "Studielokaliseringrepresentation": {
        "Benamningar": {
          "sv": "KTH Campus",
          "en": "KTH Campus"
        },
        "Giltighetsperiod": {
          "Startdatum": "2018-06-20"
        },
        "ID": 135195,
        "Kod": "KTHCAMPUS"
      },
      "StudieordningID": "1",
      "Studieperiod": {
        "Slutdatum": "2019-10-25",
        "Startdatum": "2019-08-26"
      },
```

```
      "Studietakt": {
        "Benamning": {
          "sv": "Tredjedelsfart",
          "en": "One-third-time"
        },
        "Takt": 33
      },
      "Undervisningsform": {
        "Benamningar": {
          "sv": "Normal",
          "en": "Normal teaching"
        },
        "Giltighetsperiod": {},
        "ID": 1
      },
      "UtbildningUID": "1a16606c-8c10-11e9-be70-a303c1114884",
      "UtbildningensOmfattningsvarde": "5.0",
      "UtbildningsinstansUID": "1a166069-8c10-11e9-be70-a303c1114884",
      "Utbildningskod": "FDH3363",
      "UtbildningstillfalleUID": "f6d43053-91b5-11e9-be70-a303c1114884",
      "Utbildningstillfalleskod": "51409",
      "Utbildningstillfallestyp": {
        "Benamningar": {
          "sv": "Kurstillfälle, forskarnivå",
          "en": "Course instance, Third-cycle"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": 101955,
        "Kod": "2007FKTF",
        "RegelverkForUtbildningstyp": {
          "Regelvarden": [
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            }
          ]
        },
        "Sjalvstandig": false
      },
      "Utbildningstyp": {
        "Benamningar": {
          "sv": "Kurs, forskarnivå",
          "en": "Course, Third-cycle"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
```

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        "ID": 101954,
        "Kod": "2007FKURS",
        "RegelverkForUtbildningstyp": {
          "Regelvarden": [
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  },
  {
    "Aterbud": false,
    "Avklarad": false,
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
    "Paborjad": true,
    "Perioddeltaganden": [
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        "Anpassat": false,
        "Omfattningsvarde": "3.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "99835977-016c-11eb-8078-e6edba324a99",
        "Periodindex": 1,
        "Registreringsperiod": {
          "Slutdatum": "2020-10-22",
          "Startdatum": "2020-10-07"
        },
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2020-10-21",
        "UtbildningsPeriodTill": "2021-01-15"
      }
    ],
    "Sparrad": false,
```

```
    "SummeradGodkandOmfattning": "0.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
    },
    "Uid": "99835976-016c-11eb-8078-e6edba324a99",
    "Utbildningsinformation": {
      "AntalPerioder": 1,
      "Benamning": {
        "sv": "Handledning och examination av examensarbete på grund och avancerad nivå",
        "en": "Supervision and Assessment of Degree Project Work in First and Second Cycle"
      },
      "Enhetskod": "HP",
      "FinansieringsformID": 131741,
      "LarosateID": 29,
      "Omfattningsvarde": "3.0",
      "PeriodIOrdning": "0",
      "Perioder": [
        {
          "Index": 1,
          "Omfattningsvarde": "3.0",
          "Slutdatum": "2021-01-15",
          "Startdatum": "2020-10-21",
          "Uid": "cedafe55-a634-11ea-a0cc-61a26a0147e7"
        }
      ],
      "SarskildSekretessprovning": false,
      "Studielokalisering": {
        "sv": "KTH Campus",
        "en": "KTH Campus"
      },
      "Studielokaliseringrepresentation": {
        "Benamningar": {
          "sv": "KTH Campus",
          "en": "KTH Campus"
        },
        "Giltighetsperiod": {
          "Startdatum": "2018-06-20"
        },
        "ID": 135195,
        "Kod": "KTHCAMPUS"
      },
      "StudieordningID": "1",
      "Studieperiod": {
        "Slutdatum": "2021-01-15",
        "Startdatum": "2020-10-21"
      },
```

```
      "Studietakt": {
        "Benamning": {
          "sv": "Sjättedelsfart",
          "en": "One-sixth-time"
        },
        "Takt": 17
      },
      "Undervisningsform": {
        "Benamningar": {
          "sv": "Normal",
          "en": "Normal teaching"
        },
        "Giltighetsperiod": {},
        "ID": 1
      },
      "UtbildningUID": "6483f61d-73d8-11e8-afa7-8e408e694e54",
      "UtbildningensOmfattningsvarde": "3.0",
      "UtbildningsinstansUID": "659a26c0-a0d9-11ea-a6be-cc3f59c64779",
      "Utbildningskod": "LH219V",
      "UtbildningstillfalleUID": "cedafe4d-a634-11ea-a0cc-61a26a0147e7",
      "Utbildningstillfalleskod": "50736",
      "Utbildningstillfallestyp": {
        "Benamningar": {
          "sv": "Kurstillfälle",
          "en": "Course instance"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": 52,
        "Kod": "2007KTF",
        "RegelverkForUtbildningstyp": {
          "Regelvarden": [
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
              "Varde": "varning"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan.utannonseras",
              "Varde": "true"
```

```
            }
          ]
        },
        "Sjalvstandig": false
      },
      "Utbildningstyp": {
        "Benamningar": {
          "sv": "Kurs, avancerad nivå",
          "en": "Course, Second-cycle"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": 24,
        "Kod": "2007AKURS",
        "RegelverkForUtbildningstyp": {
          "Regelvarden": [
            {
              "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.avbrottsregel",
              "Varde": "20"
            },
            {
              "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 3
    }
  }
```

```
]
```

17.5 registrations_on_course_JSON

This method returns all registrations for a particular course for a particular student.
This way we can check if a student has been registered several times on a course.

336a ⟨*LadokSession data methods* 120b⟩+≡

```
def registrations_on_course_JSON(self, course_education_id, student_id):
  """
  Return a list of registrations on course with education_id for student with
  student_id. JSON format.
  """
  data = self.get_query(
    "/studiedeltagande/internal/tillfallesdeltagande"
      f"/utbildning/{course_education_id}/student/{student_id}",
    "application/vnd.ladok-studiedeltagande+json"
  )

  try:
    return data["Tillfallesdeltaganden"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when fetching registrations for "
                        f"student {student_id} on course {course_education_id}: "
                        f"missing 'Tillfallesdeltaganden' key") from err
```

We add the following test.

336b ⟨*test functions* 120a⟩+≡

```
def test_registrations_on_course_JSON():
  results = ladok.registrations_on_course_JSON(dasak_education_id, student_uid)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
[
  {
    "Aterbud": false,
    "Avklarad": true,
    "Godkannandedatum": "2010-04-07",
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
    "Paborjad": true,
    "Perioddeltaganden": [
      {
        "Anpassat": false,
        "Omfattningsvarde": "6.0",
        "Periodbenamningar": {},
        "PerioddeltagandeUID": "9940554d-73f2-11e8-b9fd-0a821ba7448e",
        "Periodindex": 1,
```

```
        "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
        "UtbildningsPeriodFran": "2010-01-18",
        "UtbildningsPeriodTill": "2010-03-21"
      }
    ],
    "Sparrad": false,
    "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448
    "SummeradGodkandOmfattning": "6.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
    },
    "Uid": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
    "Utbildningsinformation": {
      "AntalPerioder": 1,
      "Benamning": {
        "sv": "Datasäkerhet",
        "en": "Computer Security"
      },
      "Enhetskod": "HP",
      "FinansieringsformID": 101050,
      "LarosateID": 29,
      "Omfattningsvarde": "6.0",
      "PeriodIOrdning": "0",
      "Perioder": [
        {
          "Index": 1,
          "Omfattningsvarde": "6.0",
          "Slutdatum": "2010-03-21",
          "Startdatum": "2010-01-18",
          "Uid": "79a9402f-73da-11e8-afa7-8e408e694e54"
        }
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      "SarskildSekretessprovning": false,
      "Studielokalisering": {
        "sv": "Stockholm",
        "en": "Stockholm"
      },
      "Studielokaliseringrepresentation": {
        "Benamningar": {
          "sv": "Stockholm",
          "en": "Stockholm"
        },
        "Giltighetsperiod": {
          "Slutdatum": "2019-01-14",
          "Startdatum": "1917-10-19"
        },
```

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      "Startdatum": "2010-01-18"
    },
    "Studietakt": {
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        "sv": "Helfart",
        "en": "Full-time"
      },
      "Takt": 100
    },
    "Undervisningsform": {
      "Benamningar": {
        "sv": "Normal",
        "en": "Normal teaching"
      },
      "Giltighetsperiod": {},
      "ID": 1
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    "UtbildningensOmfattningsvarde": "6.0",
    "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
    "Utbildningskod": "DD2395",
    "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
    "Utbildningstillfalleskod": "81099",
    "Utbildningstillfallestyp": {
      "Benamningar": {
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        "en": "Course instance"
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      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": 52,
      "Kod": "2007KTF",
      "RegelverkForUtbildningstyp": {
        "Regelvarden": [
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          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Varde": "true"
          },
          {
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            "Varde": "varning"
```

```
            },
            {
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              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan.utannonseras",
              "Varde": "true"
            }
          ]
        },
        "Sjalvstandig": false
      },
      "Utbildningstyp": {
        "Benamningar": {
          "sv": "Kurs, avancerad nivå",
          "en": "Course, Second-cycle"
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        "Giltighetsperiod": {},
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        "ID": 24,
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            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.avbrottsregel",
              "Varde": "20"
            },
            {
              "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
```

```
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  }
]
```

17.6 studystructure_student_JSON

We also want to get a student's study structure, that is programmes that they are admitted to.

340a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def studystructure_student_JSON(self, uid):
  """
  Returns a dictionary of student information. This contains programmes that
  the student is admitted to.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/studiedeltagande/internal/studiestruktur/student/'+uid,
    headers=self.headers)
  if r.status_code == 200:
    return r.json()
  raise LadokAPIError(f"can't get study structure for student {uid}: {r.text}")
```

Let's add a test. This should return a dictionary.

340b ⟨*test functions* 120a⟩+≡

```
def test_studystructure_student_JSON():
  r = ladok.studystructure_student_JSON(student_uid)
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Studiestrukturer": [
    {
      "Barn": [],
      "Referens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
      "Tillfallesdeltagande": {
        "Aterbud": false,
        "Avklarad": false,
        "HarPagandeUppehall": false,
        "LarosateID": 29,
        "Nuvarande": true,
        "Paborjad": true,
        "SenareDel": false,
```

```
      "Sparrad": false,
      "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
      "SummeradGodkandOmfattning": "16.0",
      "SummeradHeltTillgodoraknadOmfattning": "24.0",
      "SummeradTillgodoraknadOmfattning": "0.0",
      "Tillganglighet": {
        "RegistreringTillgangligtFranOchMed": "2014-07-01",
        "ValTillgangligtFranOchMed": "2014-07-01"
      },
      "TillstandKurspaketering": {
        "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivitet",
        "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivi
        "Utbildning": "studiedeltagande.domain.tillstandsdefinition.pagaende"
      },
      "Uid": "8d2faf85-73d9-11e8-b9fd-0a821ba7448e",
      "Utbildningsinformation": {
        "AntalPerioder": 1,
        "AvsesLedaTill": "DOKTORSEXAMEN",
        "Benamning": {
          "sv": "Datalogi",
          "en": "Computer Science"
        },
        "Enhetskod": "HP",
        "LarosateID": 29,
        "Omfattningsvarde": "240.0",
        "PeriodIOrdning": "0",
        "Perioder": [
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            "Omfattningsvarde": "240.0",
            "Slutdatum": "9999-12-31",
            "Startdatum": "2014-07-21",
            "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
          }
        ],
        "SarskildSekretessprovning": false,
        "SenareDel": false,
        "SpecificeratOmfattningsvarde": "240.0",
        "StudieordningID": "1",
        "Studieperiod": {
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        },
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        "UtbildningensOmfattningsvarde": "240.0",
        "UtbildningsinstansUID": "8d31c808-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningskod": "DATALOGI",
        "UtbildningssamarbeteID": 134769,
        "UtbildningstillfalleUID": "d5eab999-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningstillfalleskod": "KONV-02DB8",
        "Utbildningstillfallestyp": {
          "Benamningar": {
```

```
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            "en": "Subject instance, Third-cycle"
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                "Varde": "true"
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          "Sjalvstandig": true
```

```
          },
          "Utbildningsversion": 1
        },
        "YtterstaPaketeringen": true
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        "AvsesLedaTill": "DOKTORSEXAMEN",
        "Benamning": {
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          "en": "Computer Science"
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        "Enhetskod": "HP",
        "LarosateID": 29,
        "Omfattningsvarde": "240.0",
        "PeriodIOrdning": "0",
        "Perioder": [
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            "Startdatum": "2014-07-21",
            "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
          }
        ],
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        "SenareDel": false,
        "SpecificeratOmfattningsvarde": "240.0",
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            "en": "Subject instance, Third-cycle"
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                "Varde": "grupp.for.utsokning.forskarniva"
              }
            ]
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        "Utbildningstyp": {
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            "en": "Subject, Third-cycle"
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                "Varde": "240"
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```

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          "HarPagandeUppehall": false,
          "LarosateID": 29,
          "Nuvarande": true,
          "Paborjad": true,
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          "SummeradTillgodoraknadOmfattning": "34.5",
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            "RegistreringTillgangligtFranOchMed": "2006-08-28",
            "ValTillgangligtFranOchMed": "2006-08-28"
          },
          "TillstandKurspaketering": {
            "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
            "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inak
            "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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              "en": "Mathematics and Information Technology and Computer Science"
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                "Startdatum": "2006-08-30",
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              }
            ],
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            "SenareDel": false,
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              "en": "Stockholm"
            },
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              "Benamningar": {
```

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            "en": "Stockholm"
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            "Startdatum": "1917-10-19"
          },
          "ID": 131778,
          "Kod": "0180"
        },
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          "Startdatum": "2006-08-30"
        },
        "Studietakt": {
          "Benamning": {
            "sv": "Helfart",
            "en": "Full-time"
          },
          "Takt": 100
        },
        "Undervisningsform": {
          "Benamningar": {
            "sv": "Normal",
            "en": "Normal teaching"
          },
          "Giltighetsperiod": {},
          "ID": 1
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        "UtbildningensOmfattningsvarde": "300.0",
        "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "MADA",
        "UtbildningstillfalleUID": "54d30e44-73db-11e8-b4e0-063f9afb40e3",
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            "sv": "Inriktningstillf\u00e4lle",
            "en": "Specialisation instance"
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          "Giltighetsperiod": {},
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          "ID": 101961,
          "Kod": "1993INRTF",
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                "Varde": "true"
              },
```

```
                    {
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                      "Varde": "grupp.for.utsokning.grundavanceradniva"
                    }
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                },
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                  "en": "Specialisation"
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                      "Varde": "grupp.for.utsokning.grundavanceradniva"
                    },
                    {
                      "Regelnamn": "commons.domain.regel.sjalvstandig",
                      "Varde": "false"
                    },
                    {
                      "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                      "Varde": "true"
                    }
                  ]
                },
                "Sjalvstandig": false
              },
              "Utbildningsversion": 1
            },
            "YtterstaPaketeringen": false
          },
          "Utbildningsinformation": {
            "AntalPerioder": 1,
            "Benamning": {
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              "en": "Mathematics and Information Technology and Computer Science"
            },
            "Enhetskod": "HP-K",
            "FinansieringsformID": 101050,
            "LarosateID": 29,
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      }
    ],
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    "SenareDel": false,
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      "sv": "Stockholm",
      "en": "Stockholm"
    },
    "Studielokaliseringrepresentation": {
      "Benamningar": {
        "sv": "Stockholm",
        "en": "Stockholm"
      },
      "Giltighetsperiod": {
        "Slutdatum": "2019-01-14",
        "Startdatum": "1917-10-19"
      },
      "ID": 131778,
      "Kod": "0180"
    },
    "StudieordningID": "2",
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      "Slutdatum": "2011-05-28",
      "Startdatum": "2006-08-30"
    },
    "Studietakt": {
      "Benamning": {
        "sv": "Helfart",
        "en": "Full-time"
      },
      "Takt": 100
    },
    "Undervisningsform": {
      "Benamningar": {
        "sv": "Normal",
        "en": "Normal teaching"
      },
      "Giltighetsperiod": {},
      "ID": 1
    },
    "UtbildningUID": "a0bbeaf4-73d8-11e8-afa7-8e408e694e54",
    "UtbildningensOmfattningsvarde": "300.0",
    "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
    "Utbildningskod": "MADA",
    "UtbildningstillfalleUID": "54d30e44-73db-11e8-b4e0-063f9afb40e3",
```

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            "Utbildningstillfallestyp": {
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                "en": "Specialisation instance"
              },
              "Giltighetsperiod": {},
              "Grundtyp": "KURSPAKETERING",
              "ID": 101961,
              "Kod": "1993INRTF",
              "RegelverkForUtbildningstyp": {
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                  {
                    "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                    "Varde": "true"
                  },
                  {
                    "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                    "Varde": "grupp.for.utsokning.grundavanceradniva"
                  }
                ]
              },
              "Sjalvstandig": false
            },
            "Utbildningstyp": {
              "Benamningar": {
                "sv": "Inriktning",
                "en": "Specialisation"
              },
              "Giltighetsperiod": {},
              "Grundtyp": "KURSPAKETERING",
              "ID": 101960,
              "Kod": "1993INR",
              "RegelverkForUtbildningstyp": {
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                    "Varde": "grupp.for.utsokning.grundavanceradniva"
                  },
                  {
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                    "Varde": "false"
                  },
                  {
                    "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                    "Varde": "true"
                  }
                ]
              },
              "Sjalvstandig": false
            },
```

```
            "Utbildningsversion": 1
          }
        }
      ],
      "Referens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,null",
      "Tillfallesdeltagande": {
        "Aterbud": false,
        "Avklarad": true,
        "Godkannandedatum": "2012-04-26",
        "HarPagandeUppehall": false,
        "LarosateID": 29,
        "Nuvarande": true,
        "Paborjad": true,
        "SenareDel": false,
        "Sparrad": false,
        "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,null",
        "SummeradGodkandOmfattning": "300.0",
        "SummeradHeltTillgodoraknadOmfattning": "13.5",
        "SummeradTillgodoraknadOmfattning": "34.5",
        "Tillganglighet": {
          "RegistreringTillgangligtFranOchMed": "2006-08-28",
          "ValTillgangligtFranOchMed": "2006-08-28"
        },
        "TillstandKurspaketering": {
          "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
          "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivi
          "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
        },
        "Uid": "6cd8b546-73e0-11e8-b9fd-0a821ba7448e",
        "Utbildningsinformation": {
          "AntalPerioder": 1,
          "Benamning": {
            "sv": "Civilingenj\u00f6r och l\u00e4rare",
            "en": "Master of Science in Engineering and of Education"
          },
          "Enhetskod": "HP",
          "FinansieringsformID": 101050,
          "LarosateID": 29,
          "Omfattningsvarde": "300.0",
          "PeriodIOrdning": "0",
          "Perioder": [
            {
              "Index": 1,
              "Omfattningsvarde": "300.0",
              "Slutdatum": "2011-05-28",
              "Startdatum": "2006-08-30",
              "Uid": "d674e59d-73da-11e8-afa7-8e408e694e54"
            }
          ],
          "SarskildSekretessprovning": false,
          "SenareDel": false,
```

```
            "Studielokalisering": {
              "sv": "Stockholm",
              "en": "Stockholm"
            },
            "Studielokaliseringrepresentation": {
              "Benamningar": {
                "sv": "Stockholm",
                "en": "Stockholm"
              },
              "Giltighetsperiod": {
                "Slutdatum": "2019-01-14",
                "Startdatum": "1917-10-19"
              },
              "ID": 131778,
              "Kod": "0180"
            },
            "StudieordningID": "1",
            "Studieperiod": {
              "Slutdatum": "2011-05-28",
              "Startdatum": "2006-08-30"
            },
            "Studietakt": {
              "Benamning": {
                "sv": "Helfart",
                "en": "Full-time"
              },
              "Takt": 100
            },
            "Undervisningsform": {
              "Benamningar": {
                "sv": "Normal",
                "en": "Normal teaching"
              },
              "Giltighetsperiod": {},
              "ID": 1
            },
            "UtbildningUID": "a0ae2f2c-73d8-11e8-afa7-8e408e694e54",
            "UtbildningensOmfattningsvarde": "300.0",
            "UtbildningsinstansUID": "a0ae2f1d-73d8-11e8-afa7-8e408e694e54",
            "Utbildningskod": "CL",
            "UtbildningstillfalleUID": "d67449a2-73da-11e8-b4e0-063f9afb40e3",
            "Utbildningstillfalleskod": "KONV-0008B",
            "Utbildningstillfallestyp": {
              "Benamningar": {
                "sv": "Programtillf\u00e4lle",
                "en": "Programme instance"
              },
              "Giltighetsperiod": {},
              "Grundtyp": "KURSPAKETERING",
              "ID": 94,
              "Kod": "2007PRGTF",
```

```
            "RegelverkForUtbildningstyp": {
              "Regelvarden": [
                {
                  "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                  "Varde": "grupp.for.utsokning.grundavanceradniva"
                },
                {
                  "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
                  "Varde": "varning"
                },
                {
                  "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.kan.utannonseras",
                  "Varde": "true"
                }
              ]
            },
            "Sjalvstandig": false
          },
          "Utbildningstyp": {
            "Benamningar": {
              "sv": "Program",
              "en": "Programme"
            },
            "Giltighetsperiod": {},
            "Grundtyp": "KURSPAKETERING",
            "ID": 78,
            "Kod": "2007PRG",
            "RegelverkForUtbildningstyp": {
              "Regelvarden": [
                {
                  "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                  "Varde": "grupp.for.utsokning.grundavanceradniva"
                },
                {
                  "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
```

```
                    "Varde": "true"
                  }
                ]
              },
              "Sjalvstandig": true
            },
            "Utbildningsversion": 1
          },
          "YtterstaPaketeringen": true
        },
        "Utbildningsinformation": {
          "AntalPerioder": 1,
          "Benamning": {
            "sv": "Civilingenj\u00f6r och l\u00e4rare",
            "en": "Master of Science in Engineering and of Education"
          },
          "Enhetskod": "HP",
          "FinansieringsformID": 101050,
          "LarosateID": 29,
          "Omfattningsvarde": "300.0",
          "PeriodIOrdning": "0",
          "Perioder": [
            {
              "Index": 1,
              "Omfattningsvarde": "300.0",
              "Slutdatum": "2011-05-28",
              "Startdatum": "2006-08-30",
              "Uid": "d674e59d-73da-11e8-afa7-8e408e694e54"
            }
          ],
          "SarskildSekretessprovning": false,
          "SenareDel": false,
          "Studielokalisering": {
            "sv": "Stockholm",
            "en": "Stockholm"
          },
          "Studielokaliseringrepresentation": {
            "Benamningar": {
              "sv": "Stockholm",
              "en": "Stockholm"
            },
            "Giltighetsperiod": {
              "Slutdatum": "2019-01-14",
              "Startdatum": "1917-10-19"
            },
            "ID": 131778,
            "Kod": "0180"
          },
          "StudieordningID": "1",
          "Studieperiod": {
            "Slutdatum": "2011-05-28",
```

```
            "Startdatum": "2006-08-30"
          },
          "Studietakt": {
            "Benamning": {
              "sv": "Helfart",
              "en": "Full-time"
            },
            "Takt": 100
          },
          "Undervisningsform": {
            "Benamningar": {
              "sv": "Normal",
              "en": "Normal teaching"
            },
            "Giltighetsperiod": {},
            "ID": 1
          },
          "UtbildningUID": "a0ae2f2c-73d8-11e8-afa7-8e408e694e54",
          "UtbildningensOmfattningsvarde": "300.0",
          "UtbildningsinstansUID": "a0ae2f1d-73d8-11e8-afa7-8e408e694e54",
          "Utbildningskod": "CL",
          "UtbildningstillfalleUID": "d67449a2-73da-11e8-b4e0-063f9afb40e3",
          "Utbildningstillfalleskod": "KONV-0008B",
          "Utbildningstillfallestyp": {
            "Benamningar": {
              "sv": "Programtillf\u00e4lle",
              "en": "Programme instance"
            },
            "Giltighetsperiod": {},
            "Grundtyp": "KURSPAKETERING",
            "ID": 94,
            "Kod": "2007PRGTF",
            "RegelverkForUtbildningstyp": {
              "Regelvarden": [
                {
                  "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                  "Varde": "grupp.for.utsokning.grundavanceradniva"
                },
                {
                  "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
                  "Varde": "varning"
                },
                {
                  "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                  "Varde": "true"
                },
                {
```

```
                "Regelnamn": "commons.domain.regel.kan.utannonseras",
                "Varde": "true"
              }
            ]
          },
          "Sjalvstandig": false
        },
        "Utbildningstyp": {
          "Benamningar": {
            "sv": "Program",
            "en": "Programme"
          },
          "Giltighetsperiod": {},
          "Grundtyp": "KURSPAKETERING",
          "ID": 78,
          "Kod": "2007PRG",
          "RegelverkForUtbildningstyp": {
            "Regelvarden": [
              {
                "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                "Varde": "true"
              },
              {
                "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                "Varde": "grupp.for.utsokning.grundavanceradniva"
              },
              {
                "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
                "Varde": "true"
              },
              {
                "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
                "Varde": "true"
              }
            ]
          },
          "Sjalvstandig": true
        },
        "Utbildningsversion": 1
      }
    }
  ]
}
```

Chapter 18

Course-related API calls

18.1 `search_course_rounds_JSON`

We want to search for course rounds by one or more keys.

356a ⟨*LadokSession data methods* 120b⟩+≡

```
def search_course_rounds_JSON(self, /, **kwargs):
  """Query LADOK about course rounds, possible keys:
  code, round_code, name
  """
  url = "/resultat/internal/kurstillfalle/filtrera?"

  if "code" in kwargs:
    url += f"kurskod={kwargs['code']}&"
  if "name" in kwargs:
    url += f"benamning={kwargs['name']}&"
  if "round_code" in kwargs:
    url += f"tillfalleskod={kwargs['round_code']}&"

  url += "page=1&limit=400&sprakkod=sv"

  data = self.get_query(url)

  try:
    return data["Resultat"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when searching for course rounds: "
                        f"missing 'Resultat' key") from err
```

We add the following test.

356b ⟨*test functions* 120a⟩+≡

```
def test_search_course_rounds_JSON():
  results = ladok.search_course_rounds_JSON(code="DD1317")
  assert results
```

This code is used in chunk 115.

The output looks like this.


```
[
  {
    "FinansieringsformID": 101050,
    "Slutdatum": "2026-01-12",
    "Startdatum": "2025-08-25",
    "StudielokaliseringID": 135195,
    "StudietaktID": 6,
    "TillfallesKod": "50441",
    "Uid": "c2e79045-b95c-11ef-9553-beecfac44351",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Programmeringsteknik"
        },
        {
          "Sprakkod": "en",
          "Text": "Programming Techniques"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 7.5,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
      "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
      "Utbildningskod": "DD1317",
      "Versionsnummer": 1
    }
  },
  {
    "FinansieringsformID": 101050,
    "Slutdatum": "2025-01-13",
    "Startdatum": "2024-08-26",
    "StudielokaliseringID": 135195,
    "StudietaktID": 6,
    "TillfallesKod": "51345",
    "Uid": "500c3e9f-8f71-11ee-b4f1-bdc8f0e04f23",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Programmeringsteknik"
        },
```

```
        {
          "Sprakkod": "en",
          "Text": "Programming Techniques"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 7.5,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
      "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
      "Utbildningskod": "DD1317",
      "Versionsnummer": 1
    }
  },
  {
    "FinansieringsformID": 101050,
    "Slutdatum": "2024-01-15",
    "Startdatum": "2023-08-28",
    "StudielokaliseringID": 135195,
    "StudietaktID": 6,
    "TillfallesKod": "50566",
    "Uid": "04217d06-7baf-11ed-83fc-99df00a14a2f",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Programmeringsteknik"
        },
        {
          "Sprakkod": "en",
          "Text": "Programming Techniques"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 7.5,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
      "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
      "Utbildningskod": "DD1317",
      "Versionsnummer": 1
    }
  },
  {
    "FinansieringsformID": 101050,
    "Slutdatum": "2023-01-16",
```

```
    "Startdatum": "2022-08-29",
    "StudielokaliseringID": 135195,
    "StudietaktID": 6,
    "TillfallesKod": "51035",
    "Uid": "e45347cc-5cbd-11ec-b92f-2b1dd40a480d",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Programmeringsteknik"
        },
        {
          "Sprakkod": "en",
          "Text": "Programming Techniques"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 7.5,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
      "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
      "Utbildningskod": "DD1317",
      "Versionsnummer": 1
    }
  }
]
```


18.2 course_rounds_JSON

This method fetches all course rounds that uses the given course instance.

359 ⟨*LadokSession data methods* 120b⟩+≡

```
  def course_rounds_JSON(self, course_instance_id):
    """Requires course instance ID"""
    data = self.get_query(
      f"/resultat/internal/kurstillfalle/kursinstans/{course_instance_id}"
    )

    try:
      return data["Utbildningstillfalle"]
    except KeyError as err:
      err.add_note(f"Response data: {data}")
      raise LadokAPIError(f"Unexpected response format when fetching course rounds for "
                          f"instance {course_instance_id}: missing 'Utbildningstillfalle' key") from err
```

We test this method as follows.

360 ⟨*test functions* 120a⟩+≡

```
def test_course_rounds_JSON():
  results = ladok.course_rounds_JSON(dasak_instance_id)
  assert json.dumps(results[:1]+results[-1:], indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.


```
[
  {
    "FinansieringsformID": 131738,
    "Slutdatum": "2019-01-14",
    "Startdatum": "2018-10-29",
    "StudielokaliseringID": 131778,
    "StudietaktID": 5,
    "TillfallesKod": "10069",
    "Uid": "79b4b213-73da-11e8-b4e0-063f9afb40e3",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Datasäkerhet"
        },
        {
          "Sprakkod": "en",
          "Text": "Computer Security"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 6.0,
      "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "DD2395",
      "Versionsnummer": 1
    }
  },
  {
    "FinansieringsformID": 102075,
    "Slutdatum": "2008-01-11",
    "Startdatum": "2007-08-31",
    "StudielokaliseringID": 131778,
    "StudietaktID": 1,
    "TillfallesKod": "X0054",
    "Uid": "79a48556-73da-11e8-b4e0-063f9afb40e3",
    "UndervisningsformID": 1,
```

```
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Datasäkerhet"
        },
        {
          "Sprakkod": "en",
          "Text": "Computer Security"
        }
      ],
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 6.0,
      "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "DD2395",
      "Versionsnummer": 1
    }
  }
]
```

18.3 course_instance_JSON

This method fetches the data for a given course instance. It requires the course instance ID. (This is a slightly rewritten version of Maguire's original method.)

361a ⟨*LadokSession data methods* 120b⟩+≡

```
def course_instance_JSON(self, instance_id):
  """
  Returns course instance data for a course with instance ID instance_id
  """
  try:
    return self.get_query(
      f"/resultat/internal/utbildningsinstans/kursinstans/{instance_id}"
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to get course instance data for "
                        f"{instance_id}: {err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when getting course instance data for "
                           f"{instance_id}: {err}") from err
```

We add the following test.

361b ⟨*test functions* 120a⟩+≡

```
def test_course_instance_JSON():
  results = ladok.course_instance_JSON(dasak_instance_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Avvecklad": false,
  "Benamning": [
    {
      "Sprakkod": "sv",
      "Text": "Datasäkerhet"
    },
    {
      "Sprakkod": "en",
      "Text": "Computer Security"
    }
  ],
  "BetygsskalaID": 131657,
  "Enhet": "HP",
  "GallerUtbildningUtanAngivenOmfattning": false,
  "KravPaHanvisningTillBeslutshandling": false,
  "KravPaProjekttitel": false,
  "Omfattning": 6.0,
  "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
  "ResultatPaKursVidAttesteringAvModul": false,
  "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
  "Utbildningskod": "DD2395",
  "Versionsnummer": 1
}
```

18.4 course_instances_JSON

We can get a list of course instances for a given course code.

362 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def course_instances_JSON(self, course_code, lang = 'sv'):
    """
    Returns a list of dictionaries with course instances for a given course code.
    The course code is a string such as "DD1310". The language code is 'en' or
    'sv'.

    Note that there seems to be a limit of 403 for the number of pages.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url + '/resultat/internal/kurstillfalle/filtrera?kurskod=' +
        course_code + '&page=1&limit=100&skipCount=false&sprakkod=' + lang, # not sure about this one /
      headers=self.headers)
    if r.status_code == requests.codes.ok:
      return r.json()
    raise LadokAPIError(f"failed to get course instances for {course_code}: {r.text}")
```

Let's add a test. This should return a list of dictionaries.

363 ⟨*test functions* 120a⟩+≡

```
def test_course_instances_JSON():
  r = ladok.course_instances_JSON('DD2395')
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


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        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
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          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
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        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
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        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
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        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
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      "Startdatum": "2010-10-25",
      "StudielokaliseringID": 131778,
      "StudietaktID": 4,
      "TillfallesKod": "10143",
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      "UndervisningsformID": 1,
      "Utbildningsinstans": {
```

```
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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
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      "Startdatum": "2010-10-25",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "90306",
      "Uid": "79a8f22f-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
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        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
```

```
        "Versionsnummer": 1
      }
    },
    {
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      "TillfallesKod": "KONV-000DED",
      "Uid": "f4a66444-73da-11e8-b4e0-063f9afb40e3",
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
      "FinansieringsformID": 101050,
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      "Startdatum": "2010-01-18",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "81099",
      "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
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            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
```

```
        ],
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        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
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      "Startdatum": "2010-01-11",
      "TillfallesKod": "KONV-002673",
      "Uid": "f7a599d1-73da-11e8-b4e0-063f9afb40e3",
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
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        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
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      "Startdatum": "2009-08-28",
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```

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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
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        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
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    },
    {
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      "Uid": "08d7268b-73db-11e8-b4e0-063f9afb40e3",
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          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
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        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
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    },
    {
      "FinansieringsformID": 101050,
```

```
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      "StudielokaliseringID": 131778,
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      "Uid": "79a52199-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
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        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
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      "Startdatum": "2008-08-29",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "51592",
      "Uid": "79a52198-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
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        "Avvecklad": false,
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            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
```

```
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      "Omfattning": 6.0,
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      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "DD2395",
      "Versionsnummer": 1
    }
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    "Startdatum": "2008-08-29",
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    "Uid": "016ef16a-73db-11e8-b4e0-063f9afb40e3",
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          "Text": "Datas\u00e4kerhet"
        },
        {
          "Sprakkod": "en",
          "Text": "Computer Security"
        }
      ],
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      "GallerUtbildningUtanAngivenOmfattning": false,
      "Omfattning": 6.0,
      "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "DD2395",
      "Versionsnummer": 1
    }
  },
  {
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    "Startdatum": "2008-01-14",
    "StudielokaliseringID": 131778,
    "StudietaktID": 1,
    "TillfallesKod": "DD038",
    "Uid": "79a48557-73da-11e8-b4e0-063f9afb40e3",
    "UndervisningsformID": 1,
    "Utbildningsinstans": {
      "Avvecklad": false,
      "Benamning": [
```

```
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
      "FinansieringsformID": 101050,
      "Slutdatum": "2008-01-11",
      "Startdatum": "2007-08-31",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "DD038",
      "Uid": "79a48555-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
```

```
    },
    {
      "FinansieringsformID": 102075,
      "Slutdatum": "2008-01-11",
      "Startdatum": "2007-08-31",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "X0054",
      "Uid": "79a48556-73da-11e8-b4e0-063f9afb40e3",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    }
  ],
  "TotaltAntalPoster": 71
}
```


18.5 instance_info

This function gets a course instance by the combination of course code (e.g., DD1310) and the five digit round code (e.g., 50429).

405 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def instance_info(self, course_code, instance_code, lang = 'sv'):
    """
    Returns a dictionary of course instance information.

    course_code        - course code, such as "DD1310"

    instance_code      - instance of the course ('TillfallesKod')
```

```
    lang                - language code 'en' or 'sv', defaults to 'sv'
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/resultat/internal/kurstillfalle/filtrera?kurskod=' + course_code +
          '&page=1&limit=25&skipCount=false&sprakkod=' + lang,
      headers=self.headers)
    if r.status_code == requests.codes.ok:
      rj=r.json()
      for course in rj['Resultat']:
        if course['TillfallesKod'] == instance_code:
          return course
      # If we get here, the course instance was not found
      raise LadokNotFoundError(f"course instance {instance_code} not found for course {course_code}")
    raise LadokAPIError(f"failed to search for course instance {course_code}/{instance_code}: {r.text}"
```

Let's add a test. This should return a dictionary.

406 ⟨*test functions* 120a⟩+≡

```
  def test_instance_info():
    r = ladok.instance_info('DD1310', '50429')
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "FinansieringsformID": 101050,
  "Slutdatum": "2025-01-13",
  "Startdatum": "2024-08-26",
  "StudielokaliseringID": 135195,
  "StudietaktID": 7,
  "TillfallesKod": "50429",
  "Uid": "da99b691-8f70-11ee-b4f1-bdc8f0e04f23",
  "UndervisningsformID": 1,
  "Utbildningsinstans": {
    "Avvecklad": false,
    "Benamning": [
      {
        "Sprakkod": "sv",
        "Text": "Programmeringsteknik"
      },
      {
        "Sprakkod": "en",
        "Text": "Programming Techniques"
      }
    ],
    "Enhet": "HP",
    "GallerUtbildningUtanAngivenOmfattning": false,
    "Omfattning": 6.0,
    "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
    "ResultatPaKursVidAttesteringAvModul": false,
```

```
    "Uid": "4cf550c7-d6b5-11e8-8fd5-cf9d2c5c41ba",
    "UtbildningUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
    "Utbildningskod": "DD1310",
    "Versionsnummer": 2
  }
}
```

18.6 instance_info_uid

This function returns the same as above (`instance_info`) but uses the course's LADOK ID. This ID can be found as the `sis_course_id` in Canvas.

407a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def instance_info_uid(self, instance_uid):
    """
    Returns a dictionary of course instance information.

    instance_uid: course's Uid (from course_integration_id or
                  sis_course_id in Canvas)
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/resultat/internal/kurstillfalle/'+instance_uid,
      headers=self.headers)
    if r.status_code == requests.codes.ok:
      return r.json()
    raise LadokAPIError(f"failed to get course instance info for {instance_uid}: {r.text}")
```

Let's add a test. This should return a dictionary.

407b ⟨*test functions* 120a⟩+≡

```
  def test_instance_info_uid():
    r = ladok.instance_info_uid(dasak_round_id)
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "FinansieringsformID": 101050,
  "Slutdatum": "2010-03-21",
  "Startdatum": "2010-01-18",
  "StudielokaliseringID": 131778,
  "StudietaktID": 1,
  "TillfallesKod": "81099",
  "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
  "UndervisningsformID": 1,
  "Utbildningsinstans": {
    "Avvecklad": false,
    "Benamning": [
      {
        "Sprakkod": "sv",
```

```
        "Text": "Datas\u00e4kerhet"
      },
      {
        "Sprakkod": "en",
        "Text": "Computer Security"
      }
    ],
    "Enhet": "HP",
    "GallerUtbildningUtanAngivenOmfattning": false,
    "Omfattning": 6.0,
    "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
    "ResultatPaKursVidAttesteringAvModul": false,
    "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
    "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
    "Utbildningskod": "DD2395",
    "Versionsnummer": 1
  }
}
```

18.7 Course components

There are two ways to get the components for a course.

18.7.1 `course_round_components_JSON`

This method fetches the course components of a course round from LADOK. It requires the course round ID. This one includes data such as the number of registered students as well, unlike the method in the next section.

408 ⟨*LadokSession data methods* 120b⟩+≡

```
def course_round_components_JSON(self, round_id):
  """
  Fetch course components for a given course round.

  Args:
      round_id (str): The unique identifier of the course round.

  Returns:
      list: A list of course component JSON objects.

  Raises:
      LadokServerError: If the request fails or server returns an error message.
  """
  data = self.put_query(
    "/resultat/internal/kurstillfalle/moment",
    {"Identitet": [round_id]}
  )

  try:
    return data["MomentPerKurstillfallen"][0]["Moment"]
  except (KeyError, IndexError) as err:
```

```
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching components for "
                            f"round {round_id}: {type(err).__name__}") from err
```

We add the following test.

409 ⟨*test functions* 120a⟩+≡

```
def test_course_round_components_JSON():
  components = ladok.course_round_components_JSON(dasak_round_id)
  assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "AntalRegistrerade": 0,
  "Benamning": {
    "sv": "Datasäkerhet",
    "en": "Computer Security"
  },
  "BetygsskalaID": 131657,
  "Enhet": "HP",
  "GallerUtbildningUtanAngivenOmfattning": false,
  "IngaendeMoment": [
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Laboratory Work"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 3.0,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB1"
    },
    {
      "Benamning": {
        "sv": "Tentamen",
        "en": "Examination"
      },
      "BetygsskalaID": 131657,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 3.0,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "TEN1"
```

```
    }
  ],
  "KravPaProjekttitel": false,
  "Kurstillfalleskod": "81099",
  "Omfattning": 6.0,
  "ResultatrapporteringMojlig": true,
  "Slutdatum": "2010-03-21 ",
  "Startdatum": "2010-01-18 ",
  "Studietaktsbenamning": {
    "sv": "Helfart",
    "en": "Full-time"
  },
  "Takt": 100,
  "Undervisningsformbenamning": {
    "sv": "Normal",
    "en": "Normal teaching"
  },
  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
  "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
  "Utbildningskod": "DD2395",
  "Versionsnummer": 1
}
```

18.7.2 `course_instance_components_JSON`

This method fetches the course components for a course instance, i.e., a version of the syllabus.

410 ⟨*LadokSession data methods* 120b⟩+≡

```
def course_instance_components_JSON(self, course_instance_id):
  """
  Fetch course components for a given course instance.

  Args:
      course_instance_id (str): The unique identifier of the course instance.

  Returns:
      dict: JSON object containing course instance components.

  Raises:
      LadokServerError: If the request fails or server returns an error message.
  """
  data = self.put_query(
    "/resultat/internal/utbildningsinstans/moduler",
    {"Identitet": [course_instance_id]}
  )

  try:
    return data["Utbildningsinstans"][0]
  except (KeyError, IndexError) as err:
    err.add_note(f"Response data: {data}")
```

```
        raise LadokAPIError(f"Unexpected response format when fetching components for "
                            f"instance {course_instance_id}: {type(err).__name__}") from err
```

We add the following test code.

411 ⟨*test functions* 120a⟩+≡

```
def test_course_instance_components_JSON():
  components = ladok.course_instance_components_JSON(dasak_instance_id)
  assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.


```
{
  "Avvecklad": false,
  "Benamning": [
    {
      "Sprakkod": "sv",
      "Text": "Datasäkerhet"
    },
    {
      "Sprakkod": "en",
      "Text": "Computer Security"
    }
  ],
  "BetygsskalaID": 131657,
  "Enhet": "HP",
  "GallerUtbildningUtanAngivenOmfattning": false,
  "KravPaHanvisningTillBeslutshandling": false,
  "KravPaProjekttitel": false,
  "Moduler": [
    {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Laborationer"
        },
        {
          "Sprakkod": "en",
          "Text": "Laboratory Work"
        }
      ],
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaHanvisningTillBeslutshandling": false,
      "KravPaProjekttitel": false,
      "Moduler": [],
      "Omfattning": 3.0,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
```

```
      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "LAB1",
      "Versionsnummer": 1
    },
    {
      "Avvecklad": false,
      "Benamning": [
        {
          "Sprakkod": "sv",
          "Text": "Tentamen"
        },
        {
          "Sprakkod": "en",
          "Text": "Examination"
        }
      ],
      "BetygsskalaID": 131657,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaHanvisningTillBeslutshandling": false,
      "KravPaProjekttitel": false,
      "Moduler": [],
      "Omfattning": 3.0,
      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
      "ResultatPaKursVidAttesteringAvModul": false,
      "Uid": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
      "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
      "Utbildningskod": "TEN1",
      "Versionsnummer": 1
    }
  ],
  "Omfattning": 6.0,
  "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
  "ResultatPaKursVidAttesteringAvModul": false,
  "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
  "Utbildningskod": "DD2395",
  "Versionsnummer": 1
}
```

Chapter 19

Results-related API calls

In this chapter we look at how to fetch results from LADOK and report new results to LADOK.

19.1 Reported results

There are two ways to get results for a course. One method gives more data than the other.

19.1.1 `search_reported_results_JSON`

This method searches for student results for a given component on a given course round.

413 ⟨*LadokSession data methods* 120b⟩+≡

```
def search_reported_results_JSON(self, course_round_id, component_instance_id):
  """Requires:
  course_round_id: round_id for a course,
  component_instance_id: instance_id for a component of the course.
  """
  put_data = {
    "Filtrering": ["OBEHANDLADE", "UTKAST", "ATTESTERADE"],
    "KurstillfallenUID": [course_round_id],
    "OrderBy": [
      "EFTERNAMN_ASC",
      "FORNAMN_ASC",
      "PERSONNUMMER_ASC"
    ],
    "Limit": 400,
    "Page": 1,
    "StudenterUID": []
  }

  data = self.put_query(
    "/resultat/internal/studieresultat/rapportera"
      f"/utbildningsinstans/{component_instance_id}/sok",
    put_data)
```

```
    try:
      return data["Resultat"]
    except KeyError as err:
      err.add_note(f"Response data: {data}")
      raise LadokAPIError(f"Unexpected response format when searching for results for "
                          f"round {course_round_id}, component {component_instance_id}: "
                          f"missing 'Resultat' key") from err
```

We write the following test.

414 ⟨*test functions* 120a⟩+≡

```
  def test_search_reported_results_JSON():
    results = ladok.search_reported_results_JSON(dasak_round_id,
      LAB1_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.


```
[
  {
    "AktuellKursinstans": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
    "AktuelltKurstillfalle": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
    "KursUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
    "Rapporteringskontext": {
      "BetygsskalaID": 131656,
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaHanvisningTillBeslutshandling": false,
      "KravPaProjekttitel": false,
      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
    },
    "ResultatPaUtbildningar": [
      {
        "HarFleraAttesteradeResultat": false,
        "HarTillgodoraknande": false,
        "HeltTillgodoraknad": false,
        "KanExkluderas": false,
        "SenastAttesteradeResultat": {
          "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04
          "Beslutsdatum": "2010-04-07",
          "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
          "Betygsgrad": 131658,
          "Betygsgradsobjekt": {
            "GiltigSomSlutbetyg": true,
            "ID": 131658,
            "Kod": "P"
          },
          "BetygsskalaID": 131656,
          "Examinationsdatum": "2010-04-07",
          "ForbereddForBorttag": false,
          "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
```

```
            "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
            "Noteringar": [],
            "Noteringsdefinitioner": [],
            "ProcessStatus": 3,
            "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
            "SenasteResultatandring": "2018-06-20T00:29:18.739",
            "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
            "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
            "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
            "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
          },
          "TotalTillgodoraknadOmfattning": 0.0,
          "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
        },
        {
          "HarFleraAttesteradeResultat": false,
          "HarTillgodoraknande": false,
          "HeltTillgodoraknad": false,
          "KanExkluderas": false,
          "SenastAttesteradeResultat": {
            "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04
            "Beslutsdatum": "2010-03-18",
            "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
            "Betygsgrad": 131661,
            "Betygsgradsobjekt": {
              "GiltigSomSlutbetyg": true,
              "ID": 131661,
              "Kod": "A"
            },
            "BetygsskalaID": 131657,
            "Examinationsdatum": "2010-03-18",
            "ForbereddForBorttag": false,
            "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
            "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
            "Noteringar": [],
            "Noteringsdefinitioner": [],
            "ProcessStatus": 3,
            "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
            "SenasteResultatandring": "2018-06-20T00:29:18.754",
            "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
            "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
            "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
            "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
          },
          "TotalTillgodoraknadOmfattning": 0.0,
          "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
        },
        {
          "HarFleraAttesteradeResultat": false,
          "HarTillgodoraknande": false,
          "HeltTillgodoraknad": false,
```

```
        "KanExkluderas": false,
        "SenastAttesteradeResultat": {
          "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04-
          "Beslutsdatum": "2010-04-07",
          "Beslutsfattare": "Sonja Buchegger",
          "Betygsgrad": 131661,
          "Betygsgradsobjekt": {
            "GiltigSomSlutbetyg": true,
            "ID": 131661,
            "Kod": "A"
          },
          "BetygsskalaID": 131657,
          "Examinationsdatum": "2010-04-07",
          "ForbereddForBorttag": false,
          "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
          "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
          "Noteringar": [],
          "Noteringsdefinitioner": [],
          "ProcessStatus": 3,
          "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
          "SenasteResultatandring": "2018-06-20T01:45:18.367",
          "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
          "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
          "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
          "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
        },
        "TotalTillgodoraknadOmfattning": 0.0,
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
      }
    ],
    "Student": {
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Personnummer": "191234561234",
      "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
    },
    "Uid": "a4a4be29-73f2-11e8-b046-cb26945c40f5"
  }
]
```


19.1.2 `search_course_results_JSON`

Another method, which gives slightly different results is the following.

416 ⟨*LadokSession data methods* 120b⟩+≡

```
  def search_course_results_JSON(self, course_round_id, component_instance_id):
    """
    Retrieve course results for a specific component in a course round.

    Args:
        course_round_id (str): The unique identifier of the course round.
```

```
        component_instance_id (str): The unique identifier of the component instance.

    Returns:
        list: List of course result JSON objects.

    Raises:
        LadokAPIError: If the request fails.
    """
    put_data = {
      "KurstillfallenUID": [course_round_id],
      "Tillstand": ["REGISTRERAD", "AVKLARAD", "AVBROTT"],
      "OrderBy": ["EFTERNAMN_ASC", "FORNAMN_ASC"],
      "Limit": 400,
      "Page": 1,
    }

    data = self.put_query(
      "/resultat/internal/resultatuppfoljning/resultatuppfoljning/sok",
      put_data)

    try:
      return data["Resultat"]
    except KeyError as err:
      err.add_note(f"Response data: {data}")
      raise LadokAPIError(f"Unexpected response format when searching course results for "
                          f"round {course_round_id}, component {component_instance_id}: "
                          f"missing 'Resultat' key") from err
```

We test this by the following.

417 ⟨*test functions* 120a⟩+≡

```
def test_search_course_results_JSON():
  results = ladok.search_course_results_JSON(dasak_round_id, LAB1_instance_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.


```
[
  {
    "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
    "LarosateID": 29,
    "Resultat": [
      {
        "Betygsgradskod": "P",
        "Examinationsdatum": "2010-04-07",
        "LarosateID": 29,
        "SenastAndradAv": "informationskonverterare@kth",
        "SenastSparad": "2018-06-20T00:29:18.755",
        "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
        "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
        "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
      },
```

```
      {
        "Betygsgradskod": "A",
        "Examinationsdatum": "2010-03-18",
        "LarosateID": 29,
        "SenastAndradAv": "informationskonverterare@kth",
        "SenastSparad": "2018-06-20T00:29:18.755",
        "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
        "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
        "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
      },
      {
        "Betygsgradskod": "A",
        "Examinationsdatum": "2010-04-07",
        "LarosateID": 29,
        "SenastAndradAv": "informationskonverterare@kth",
        "SenastSparad": "2018-06-20T01:45:18.369",
        "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
      }
    ],
    "Student": {
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Personnummer": "191234561234",
      "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
    },
    "Tillstand": "AVKLARAD"
  }
]
```

19.2 Results for a student: `student_results_JSON`

This method pulls results for an individual student for a particular course. LADOK changed this API request in 2022.

418 ⟨*LadokSession data methods* 120b⟩+≡

```
  def student_results_JSON(self, student_id, course_education_id):
    """Returns the results for a student on a course"""
    try:
      return self.get_query(
        "/resultat/internal/studentenskurser/kursinformation"
        f"/student/{student_id}/kursUID/{course_education_id}"
      )
    except LadokAPIError as err:
      raise LadokAPIError(f"Failed to get results for student {student_id} "
                          f"on course {course_education_id}: {err}") from err
    except LadokServerError as err:
      raise LadokServerError(f"LADOK server error when getting results for "
                             f"student {student_id} on course {course_education_id}: "
                             f"{err}") from err
```

We test this in the following way.

419 ⟨*test functions* 120a⟩+≡

```
def test_student_results_JSON():
  results = ladok.student_results_JSON(student_uid, dasak_education_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "GallandeKurstillfalle": {
    "Slutdatum": "2010-03-21",
    "Startdatum": "2010-01-18",
    "StudielokaliseringID": 131778,
    "StudietaktID": 1,
    "TillfallesKod": "81099",
    "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
    "UndervisningsformID": 1
  },
  "Kursversioner": [
    {
      "ArAktuellVersion": true,
      "GallandeKurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
      "HarTillgodoraknandePaHelaKursen": false,
      "Kursversion": 1,
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "VersionensKurs": {
        "Betygsskala": {
          "Benamning": {
            "sv": "Sjugradig betygsskala",
            "en": "Seven point grading scale"
          },
          "Beskrivning": {},
          "Betygsgrad": [
            {
              "Benamning": {
                "sv": "Utmärkt",
                "en": "Excellent"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131661,
              "Kod": "A"
            },
            {
              "Benamning": {
                "sv": "Mycket bra",
                "en": "Very Good"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131667,
```

```
            "Kod": "B"
          },
          {
            "Benamning": {
              "sv": "Bra",
              "en": "Good"
            },
            "GiltigSomSlutbetyg": true,
            "ID": 131673,
            "Kod": "C"
          },
          {
            "Benamning": {
              "sv": "Tillfredsställande",
              "en": "Satisfactory"
            },
            "GiltigSomSlutbetyg": true,
            "ID": 131679,
            "Kod": "D"
          },
          {
            "Benamning": {
              "sv": "Tillräcklig",
              "en": "Sufficient"
            },
            "GiltigSomSlutbetyg": true,
            "ID": 131691,
            "Kod": "E"
          },
          {
            "Benamning": {
              "sv": "Underkänd",
              "en": "Not satisfactory"
            },
            "GiltigSomSlutbetyg": false,
            "ID": 131696,
            "Kod": "FX"
          },
          {
            "Benamning": {
              "sv": "Underkänd",
              "en": "Failed"
            },
            "GiltigSomSlutbetyg": false,
            "ID": 131697,
            "Kod": "F"
          }
        ],
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "2007-07-01"
```

```
      },
      "ID": "131657",
      "Kod": "AF"
    },
    "Enhet": "HP",
    "GallerUtbildningUtanAngivenOmfattning": false,
    "HarTillgodoraknandePaHelaUtbildningen": false,
    "Kod": "DD2395",
    "KravPaHanvisningTillBeslutshandling": false,
    "KravPaProjekttitel": false,
    "KursenHarAvbrott": false,
    "Omfattning": 6.0,
    "ResultatPaKursVidAttesteringAvModul": false,
    "ResultatPaUtbildning": {
      "HarTillgodoraknande": false,
      "HeltTillgodoraknad": false,
      "KanExkluderas": false,
      "OvrigaResultat": [],
      "SenastAttesteradeResultat": {
        "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-0
        "Beslutsdatum": "2010-04-07",
        "Beslutsfattare": "Sonja Buchegger",
        "Betygsgrad": 131661,
        "Betygsgradsobjekt": {
          "Benamning": {
            "sv": "Utmärkt",
            "en": "Excellent"
          },
          "GiltigSomSlutbetyg": true,
          "ID": 131661,
          "Kod": "A"
        },
        "BetygsskalaID": 131657,
        "Examinationsdatum": "2010-04-07",
        "ForbereddForBorttag": false,
        "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
        "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
        "Noteringar": [],
        "Noteringsdefinitioner": [],
        "ProcessStatus": 3,
        "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
        "SenasteResultatandring": "2018-06-20T01:45:18.367",
        "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
        "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
        "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
        "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
      },
      "TotalTillgodoraknadOmfattning": 0.0,
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
    },
    "Tillgodoraknanden": [],
```

```
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningsinstansbenamningar": {
        "sv": "Datasäkerhet",
        "en": "Computer Security"
      }
    },
    "VersionensModuler": [
      {
        "Betygsskala": {
          "Benamning": {
            "sv": "Sjugradig betygsskala",
            "en": "Seven point grading scale"
          },
          "Beskrivning": {},
          "Betygsgrad": [
            {
              "Benamning": {
                "sv": "Utmärkt",
                "en": "Excellent"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131661,
              "Kod": "A"
            },
            {
              "Benamning": {
                "sv": "Mycket bra",
                "en": "Very Good"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131667,
              "Kod": "B"
            },
            {
              "Benamning": {
                "sv": "Bra",
                "en": "Good"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131673,
              "Kod": "C"
            },
            {
              "Benamning": {
                "sv": "Tillfredsställande",
                "en": "Satisfactory"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131679,
              "Kod": "D"
```

```
            },
            {
              "Benamning": {
                "sv": "Tillräcklig",
                "en": "Sufficient"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131691,
              "Kod": "E"
            },
            {
              "Benamning": {
                "sv": "Underkänd",
                "en": "Not satisfactory"
              },
              "GiltigSomSlutbetyg": false,
              "ID": 131696,
              "Kod": "FX"
            },
            {
              "Benamning": {
                "sv": "Underkänd",
                "en": "Failed"
              },
              "GiltigSomSlutbetyg": false,
              "ID": 131697,
              "Kod": "F"
            }
          ],
          "Dolt": false,
          "Giltighetsperiod": {
            "Startdatum": "2007-07-01"
          },
          "ID": "131657",
          "Kod": "AF"
        },
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "HarTillgodoraknandePaHelaUtbildningen": false,
        "Kod": "TEN1",
        "KravPaHanvisningTillBeslutshandling": false,
        "KravPaProjekttitel": false,
        "KursenHarAvbrott": false,
        "Omfattning": 3.0,
        "ResultatPaKursVidAttesteringAvModul": false,
        "ResultatPaUtbildning": {
          "HarTillgodoraknande": false,
          "HeltTillgodoraknad": false,
          "KanExkluderas": false,
          "OvrigaResultat": [],
          "SenastAttesteradeResultat": {
```

```
            "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
            "Beslutsdatum": "2010-03-18",
            "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
            "Betygsgrad": 131661,
            "Betygsgradsobjekt": {
              "Benamning": {
                "sv": "Utmärkt",
                "en": "Excellent"
              },
              "GiltigSomSlutbetyg": true,
              "ID": 131661,
              "Kod": "A"
            },
            "BetygsskalaID": 131657,
            "Examinationsdatum": "2010-03-18",
            "ForbereddForBorttag": false,
            "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
            "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
            "Noteringar": [],
            "Noteringsdefinitioner": [],
            "ProcessStatus": 3,
            "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
            "SenasteResultatandring": "2018-06-20T00:29:18.754",
            "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
            "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
            "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
            "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
          },
          "TotalTillgodoraknadOmfattning": 0.0,
          "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
        },
        "Tillgodoraknanden": [],
        "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
        "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningsinstansbenamningar": {
          "sv": "Tentamen",
          "en": "Examination"
        }
      },
      {
        "Betygsskala": {
          "Benamning": {
            "sv": "Tvågradig betygsskala",
            "en": "Two point grading scale"
          },
          "Beskrivning": {},
          "Betygsgrad": [
            {
              "Benamning": {
                "sv": "Godkänd",
                "en": "Pass"
```

```
            },
            "GiltigSomSlutbetyg": true,
            "ID": 131658,
            "Kod": "P"
          },
          {
            "Benamning": {
              "sv": "Underkänd",
              "en": "Failed"
            },
            "GiltigSomSlutbetyg": false,
            "ID": 131663,
            "Kod": "F"
          }
        ],
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "131656",
        "Kod": "PF"
      },
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "HarTillgodoraknandePaHelaUtbildningen": false,
      "Kod": "LAB1",
      "KravPaHanvisningTillBeslutshandling": false,
      "KravPaProjekttitel": false,
      "KursenHarAvbrott": false,
      "Omfattning": 3.0,
      "ResultatPaKursVidAttesteringAvModul": false,
      "ResultatPaUtbildning": {
        "HarTillgodoraknande": false,
        "HeltTillgodoraknad": false,
        "KanExkluderas": false,
        "OvrigaResultat": [],
        "SenastAttesteradeResultat": {
          "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
          "Beslutsdatum": "2010-04-07",
          "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
          "Betygsgrad": 131658,
          "Betygsgradsobjekt": {
            "Benamning": {
              "sv": "Godkänd",
              "en": "Pass"
            },
            "GiltigSomSlutbetyg": true,
            "ID": 131658,
            "Kod": "P"
          },
          "BetygsskalaID": 131656,
          "Examinationsdatum": "2010-04-07",
          "ForbereddForBorttag": false,
```

```
                "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
                "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
                "Noteringar": [],
                "Noteringsdefinitioner": [],
                "ProcessStatus": 3,
                "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
                "SenasteResultatandring": "2018-06-20T00:29:18.739",
                "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
                "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
                "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
                "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
              },
              "TotalTillgodoraknadOmfattning": 0.0,
              "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
            },
            "Tillgodoraknanden": [],
            "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
            "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
            "Utbildningsinstansbenamningar": {
              "sv": "Laborationer",
              "en": "Laboratory Work"
            }
          }
        ]
      }
    ],
    "NoteringsdefinitionerKoppladeTillResultat": [],
    "ResultatUtanKopplingTillKursversion": [],
    "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
    "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
}
```


19.3 Modifying results

We have two alternatives: add a new result or update an existing result draft.

19.3.1 `create_result_JSON`

This method is used to create a new result. This result will be a draft. It must later be finalized and then attested.

Note that since this is a new result, we must provide the `StudieresultatUID` where we want to add the result. When we've done this, we'll get a `ResultatUID` back in the response. From then on, it's the `ResultatUID` that's interesting.

Note also that we can use `course_instance_id` as `component_id`, this will set the result on the whole course.

426 ⟨*LadokSession data methods* 120b⟩+≡

```
def create_result_JSON(self,
      student_id, course_instance_id, component_id,
      grade_id, date,
      project_title=None):
```

```
    """
    Creates a new result
    """
    try:
      return self.post_query(
        f"/resultat/internal/resultat/student/{student_id}"
        f"/kursinstans/{course_instance_id}"
        f"/utbildningsinstans/{component_id}"
        f"/skapa",
        {
          "Betygsgrad": grade_id,
          "Examinationsdatum": date,
          "Projekttitel": project_title
        }
      )
    except LadokAPIError as err:
      raise LadokAPIError(f"Failed to create result for student {student_id} "
                          f"on component {component_id}: {err}") from err
    except LadokServerError as err:
      raise LadokServerError(f"LADOK server error when creating result for "
                             f"student {student_id} on component {component_id}: "
                             f"{err}") from err
```

We test this in the following way.

427 ⟨*test functions* 120a⟩+≡

```
  datintro_student_uid = "76291c55-d24a-11ea-a4db-82cca4dd4b3e"
  datintro_instance_id = "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba"
  datintro_LAB1_id = "385a4428-73d8-11e8-b4e0-063f9afb40e3"

  result_uid = None
  result_last_modified = None

  def test_create_result_JSON():
    result = ladok.create_result_JSON(
      datintro_student_uid, datintro_instance_id, datintro_LAB1_id,
      131663, "2022-11-29")

    global result_uid
    result_uid = result["Uid"]
    global result_last_modified
    result_last_modified = result["SenasteResultatandring"]

    assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Betygsgrad": 131663,
  "Betygsgradsobjekt": {
    "GiltigSomSlutbetyg": false,
```

```
    "ID": 131663,
    "Kod": "F"
  },
  "BetygsskalaID": 131656,
  "Examinationsdatum": "2022-11-27",
  "ForbereddForBorttag": false,
  "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
  "Noteringar": [],
  "Noteringsdefinitioner": [],
  "ProcessStatus": 1,
  "ResultatUID": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "SenasteResultatandring": "2026-03-28T00:09:25.309",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

LADOK changed this API request in 2022.

19.3.2 `update_result_JSON`

This method updates an existing result draft. Note that we cannot use this method to update a finalized result. Note also that we use the `ResultatUID` and not the `StudieresultatUID` as we did for `create_result_JSON`.

428 ⟨*LadokSession data methods* 120b⟩+≡

```
def update_result_JSON(self,
      result_id, grade_id, date, last_modified, notes=[]):
  """Update an existing result draft in LADOK.

  Note: Cannot be used to update finalized results. Uses ResultatUID, not StudieresultatUID.

  Args:
      result_id (str): The unique result identifier (ResultatUID).
      grade_id (int): The numeric grade identifier from the grade scale.
      date (str): Examination date in YYYY-MM-DD format.
      last_modified (str): Last modification timestamp to prevent conflicts.
      notes (list, optional): List of notes to attach to the result.

  Returns:
      dict: Updated result data from LADOK.

  Raises:
      Exception: If the update request fails or is rejected by LADOK.
  """
  try:
    return self.put_query(
      f"/resultat/internal/resultat/uppdatera/{result_id}",
      {
```

```
          'Betygsgrad': grade_id,
          'Examinationsdatum': date,
          'Noteringar': notes,
          'SenasteResultatandring': last_modified
        }
      )
    except LadokAPIError as err:
      raise LadokAPIError(f"Failed to update result {result_id}: {err}") from err
    except LadokServerError as err:
      raise LadokServerError(f"LADOK server error when updating result "
                             f"{result_id}: {err}") from err
```

We test this in the following way.

429 ⟨*test functions* 120a⟩+≡

```
def test_update_result_JSON():
  global result_uid
  global result_last_modified

  result = ladok.update_result_JSON(
    result_uid, 131658, "2022-11-28", result_last_modified)

  result_last_modified = result["SenasteResultatandring"]

  assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Betygsgrad": 131658,
  "Betygsgradsobjekt": {
    "GiltigSomSlutbetyg": true,
    "ID": 131658,
    "Kod": "P"
  },
  "BetygsskalaID": 131656,
  "Examinationsdatum": "2022-11-29",
  "ForbereddForBorttag": false,
  "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
  "Noteringar": [],
  "Noteringsdefinitioner": [],
  "ProcessStatus": 1,
  "ResultatUID": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "SenasteResultatandring": "2026-03-28T00:09:25.381",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

19.4 Finalizing a result

Here we cover the API calls needed to finalize (klarmarkera) a result in LADOK. To finalize a result, we first need to know the possible reporters and attestants. However, normally that's us, so we want to find the info of the currently logged in LADOK user.

19.4.1 `result_attestants_JSON` and `result_reporters_JSON`

To finalize a result, we must know two things: who is reporting and who can attest. We start with who can attest.

430a ⟨*LadokSession data methods* 120b⟩+≡

```
def result_attestants_JSON(self, result_id):
  """Returns a list of result attestants"""
  data = self.put_query(
    "/resultat/internal/anvandare/resultatrattighet/attestanter/kurstillfallesrapportering",
    {"Identitet": [result_id]}
  )

  try:
    return data["Anvandare"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when fetching attestants for "
                        f"result {result_id}: missing 'Anvandare' key") from err
```

The `result_id` is the ID returned in the `ResultatUID` field in the response from the `create_result_JSON` method.

LADOK changed this API request in 2022: the `internal` is mandatory part of the path.

We can test this in the following way.

430b ⟨*test functions* 120a⟩+≡

```
def test_result_attestants_JSON():
  global result_uid
  try:
    attestants = ladok.result_attestants_JSON(result_uid)
    assert json.dumps(attestants, indent=2, ensure_ascii=False)
  except Exception as err:
    assert "Några av angivna resultatidentiter" in str(err)
```

This code is used in chunk 115.

The output looks like this.

```
[
  {
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "Uid": "0ad46a6f-f058-11e6-914e-6af6ab854a1a"
  },
  {
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
```

```
    "Fornamn": "Student",
    "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
  }
]
```

Now, we get a list of who can report (basically anyone registered in the entire organization).

431a ⟨*LadokSession data methods* 120b⟩+≡

```
def result_reporters_JSON(self, organization_id):
  """Returns a list of who can report results in an organization"""
  data = self.get_query(
    "/kataloginformation/internal/anvandare/organisation/" +
      organization_id + "/resultatrapportorer",
    "application/vnd.ladok-kataloginformation+json"
  )

  try:
    return data["Anvandare"]
  except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when fetching reporters for "
                        f"organization {organization_id}: missing 'Anvandare' key") from err
```

We test this method as follows.

431b ⟨*test functions* 120a⟩+≡

```
def test_result_reporters_JSON():
  reporters = ladok.result_reporters_JSON(KTH_org_id)
  assert json.dumps(reporters, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
[
  {
    "AnvandareStatus": "AKTIV",
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "7c3b78ca-5790-11e9-aa01-33005ebe4882"
  },
  {
    "AnvandareStatus": "AKTIV",
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "c2c14b87-3a90-11e9-98c7-6e9130f64812"
  },
  {
    "AnvandareStatus": "AKTIV",
    "Anvandarnamn": "user@domain.se",
```

```
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "ab6ef714-15fb-11e7-a1a0-8cb7e2bc425d"
  }
]
```

19.4.2 user_info_JSON

Usually, we want to set the reporter to the logged-in user. We can use the following API call to get information about the logged-in user.

432a ⟨*LadokSession data methods* 120b⟩+≡

```
def user_info_JSON(self):
  """
  Get information about the currently logged-in user.

  Returns:
      dict: User information including name, roles, and permissions.

  Raises:
      Exception: If the request fails or returns an error status.
  """
  try:
    return self.get_query(
      "/kataloginformation/internal/anvandare/anvandarinformation",
      "application/vnd.ladok-kataloginformation+json"
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to get user info: {err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when getting user info: "
                           f"{err}") from err
```

We test this as follows.

432b ⟨*test functions* 120a⟩+≡

```
def test_user_info_JSON():
  me_teacher = ladok.user_info_JSON()
  assert json.dumps(me_teacher, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "AnvandareUID": "21f4667a-e864-11ea-adbf-a14961264cf0",
  "Epost": "dbosk@kth.se",
  "Leveranspreferenser": [],
  "Uid": "25c8c6d7-e864-11ea-adbf-a14961264cf0"
}
```

19.4.3 `finalize_result_JSON`

Finally, we can finalize the reported grade. If `attestant_id` is not `None`, then LADOK will send a notification to that person. (LADOK changed this API request in 2022.)

433a ⟨*LadokSession data methods* 120b⟩+≡

```
def finalize_result_JSON(self,
    result_id, last_modified, reporter_id, attestant_ids=[],
    others=[]):
  """Marks a result as finalized (klarmarkera)"""
  try:
    return self.put_query(
      f"/resultat/internal/resultat/klarmarkera/{result_id}",
      {
        "Beslutsfattare": attestant_ids,
        "KlarmarkeradAvUID": reporter_id,
        "RattadAv": [],
        "OvrigaMedverkande": "\n".join(set(others)),
        "ResultatetsSenastSparad": last_modified
      }
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to finalize result {result_id}: {err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when finalizing result "
                           f"{result_id}: {err}") from err
```

This method returns a copy of the finalized result.

We test this in the following way.

433b ⟨*test functions* 120a⟩+≡

```
reporter_id = "21f4667a-e864-11ea-adbf-a14961264cf0"

def test_finalize_result_JSON():
  global result_uid
  global result_last_modified

  result = ladok.finalize_result_JSON(
    result_uid, result_last_modified, reporter_id)

  result_last_modified = result["SenasteResultatandring"]

  assert result.get("ProcessStatus") == 2
  assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

We also want to verify that the `CourseResult` class correctly reflects the finalized state through its `finalized` property.

433c ⟨*test functions* 120a⟩+≡

```
def test_finalized_CourseResult():
  """Verify CourseResult.finalized property after finalization."""
  student = ladok.get_student(datintro_student_uid)
```

```
    # Find the course participation for datintro
    courses = [c for c in student.courses()
               if c.instance_id == datintro_instance_id]
    assert len(courses) > 0, "Student should have course participation"
    course = courses[0]

    # Find the result that was just finalized (should be finalized but not attested)
    results = course.results()
    finalized_results = [r for r in results
                         if r.finalized and not r.attested]
    assert len(finalized_results) > 0, "Should have a finalized result"

    result = finalized_results[0]
    assert result.finalized == True
    assert result.attested == False
```

This code is used in chunk 115.

The output looks like this.


```
{
  "Betygsgrad": 131658,
  "Betygsgradsobjekt": {
    "GiltigSomSlutbetyg": true,
    "ID": 131658,
    "Kod": "P"
  },
  "BetygsskalaID": 131656,
  "Examinationsdatum": "2022-11-29",
  "ForbereddForBorttag": false,
  "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
  "Noteringar": [],
  "Noteringsdefinitioner": [],
  "ProcessStatus": 2,
  "ResultatUID": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "SenasteResultatandring": "2026-03-28T00:09:25.6",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```


19.4.4 `update_finalized_result_JSON`

To update an already finalised result, we can use the following API call. The only difference from the call above (Section 19.3.2) is that the URL uses `uppdateraklarmarkerat` instead of just `uppdatera`.

434 ⟨*LadokSession data methods* 120b⟩+≡

```
  def update_finalized_result_JSON(self,
        result_id, grade_id, date, last_modified, notes=[]):
    try:
```

```
      return self.put_query(
        f"/resultat/internal/resultat/uppdateraklarmarkerat/{result_id}",
        {
          'Betygsgrad': grade_id,
          'Examinationsdatum': date,
          'Noteringar': notes,
          'SenasteResultatandring': last_modified
        }
      )
    except LadokAPIError as err:
      raise LadokAPIError(f"Failed to update finalized result {result_id}: "
                          f"{err}") from err
    except LadokServerError as err:
      raise LadokServerError(f"LADOK server error when updating finalized result "
                             f"{result_id}: {err}") from err
```

We test this in the following way.

435 ⟨*test functions* 120a⟩+≡

```
def test_update_finalized_result_JSON():
  global result_uid
  global result_last_modified

  result = ladok.update_finalized_result_JSON(
    result_uid, 131658, "2022-11-29", result_last_modified)

  result_last_modified = result["SenasteResultatandring"]

  assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Betygsgrad": 131658,
  "Betygsgradsobjekt": {
    "GiltigSomSlutbetyg": true,
    "ID": 131658,
    "Kod": "P"
  },
  "BetygsskalaID": 131656,
  "Examinationsdatum": "2022-11-29",
  "ForbereddForBorttag": false,
  "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
  "Noteringar": [],
  "Noteringsdefinitioner": [],
  "ProcessStatus": 2,
  "ResultatUID": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "SenasteResultatandring": "2026-03-28T00:09:25.67",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
```

```
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

19.4.5 finalized_result_to_draft_JSON

We can also change a result from finalized back to draft status.

436a ⟨*LadokSession data methods* 120b⟩+≡

```
def finalized_result_to_draft_JSON(self, result_id, last_modified):
  try:
    return self.put_query(
      f"/resultat/internal/resultat/tillbakatillutkast/{result_id}",
      {
        'ResultatUID': result_id,
        'ResultatetsSenastSparad': last_modified
      }
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"Failed to change finalized result {result_id} to draft: "
                        f"{err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when changing finalized result "
                           f"{result_id} to draft: {err}") from err
```

We test this in the following way.

436b ⟨*test functions* 120a⟩+≡

```
def test_finalized_result_to_draft_JSON():
  global result_uid
  global result_last_modified

  result = ladok.finalized_result_to_draft_JSON(
    result_uid, result_last_modified)

  assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
{
  "Betygsgrad": 131658,
  "Betygsgradsobjekt": {
    "GiltigSomSlutbetyg": true,
    "ID": 131658,
    "Kod": "P"
  },
  "BetygsskalaID": 131656,
  "Examinationsdatum": "2022-11-29",
  "ForbereddForBorttag": false,
  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
  "Noteringar": [],
  "Noteringsdefinitioner": [],
  "ProcessStatus": 1,
  "ResultatUID": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
```

```
  "SenasteResultatandring": "2026-03-28T00:09:25.73",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "ff7926d0-2a31-11f1-99a3-8d248b6d4bc2",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

19.4.6 `remove_result_draft_JSON`

We can also change a result from finalized back to draft status.

437a ⟨*LadokSession data methods* 120b⟩+≡

```
def remove_result_draft_JSON(self, result_id):
  try:
    data = self.del_query(
      f"/resultat/internal/resultat/tabort/{result_id}"
    )
  except LadokAPIError as err:
    raise LadokAPIError(f"LADOK request to remove draft result "
                        f"{result_id} failed: {err}") from err
  except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when removing "
                           f"draft result {result_id}: "
                           f"{err}") from err
```

We test this in the following way.

437b ⟨*test functions* 120a⟩+≡

```
def test_remove_result_draft_JSON():
  global result_uid

  ladok.remove_result_draft_JSON(result_uid)
```

This code is used in chunk 115.

There is no output.

19.5 `participants_JSON`

The method returns JSON data containing a list of students (the participants in the course round). (This is an extension of Maguire's original `participants_JSON` method. The essential difference is keyword arguments to filter which students to include.)

437c ⟨*LadokSession data methods* 120b⟩+≡

```
def participants_JSON(self, course_round_id, /, **kwargs):
  """Returns JSON record containing participants in a course identified by
  round ID.
  Filters in kwargs: not_started, ongoing, registered, finished, cancelled"""
  participants_types = []
  if "not_started" in kwargs and kwargs["not_started"]:
    participants_types.append("EJ_PABORJAD")
  if "ongoing" in kwargs and kwargs["ongoing"]:
    participants_types.append("PAGAENDE")
  if "registered" in kwargs and kwargs["registered"]:
```

```
    participants_types.append("REGISTRERAD")
  if "finished" in kwargs and kwargs["finished"]:
    participants_types.append("AVKLARAD")
  if "cancelled" in kwargs and kwargs["cancelled"]:
    participants_types.append("AVBROTT")
  # 'ATERBUD', # Withdrawal
  # 'PAGAENDE_MED_SPARR', # on-going block exists
  # 'EJ_PAGAENDE_TILLFALLESBYTE', # not on-going due to instance exchange
  # 'UPPEHALL', # not on-going due to approved leave from studies

  if not kwargs:
    participants_types = ["PAGAENDE", "REGISTRERAD", "AVKLARAD"]

  put_data = {
    'page': 1,
    'limit': 400,
    'orderby': ['EFTERNAMN_ASC',
                'FORNAMN_ASC',
                'PERSONNUMMER_ASC',
                'KONTROLLERAD_KURS_ASC'],
    'deltagaretillstand': participants_types,
    'utbildningstillfalleUID': [course_round_id]
  }

  response = self.put_query(
    '/studiedeltagande/internal/deltagare/kurstillfalle',
    put_data,
    "application/vnd.ladok-studiedeltagande+json")
  try:
    return response["Resultat"]
  except KeyError as err:
    err.add_note(f"Response data: {response}")
    raise LadokAPIError(f"Unexpected response format when fetching participants for "
                        f"round {course_round_id}: missing 'Resultat' key") from err
```

We test this as follows.

438 ⟨*test functions* 120a⟩+≡

```
def test_participants_JSON():
  results = ladok.participants_JSON(dasak_round_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 115.

The output looks like this.

```
[
  {
    "Avklarad": true,
    "FleraDeltagandenPaSammaUtbildning": false,
    "KodRotpaketering": "CL",
    "Nuvarande": true,
    "Paborjad": true,
```

```
    "Student": {
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Personnummer": "191234561234",
      "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
    },
    "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448
    "TillfallesantagningUID": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
    "TillstandI18n": "studiedeltagande.studenthantering.deltagare.tillstand.avklarad",
    "TillstandKurs": {
      "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
    },
    "Uid": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
    "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"
  }
]
```

Chapter 20

Other API calls

The following API calls were explored and written by Chip Maguire. Bosk has merely added tests and generated example output, as well as minor reformatting of the code.

20.1 `grading_rights`

We can get a list of our rights in LADOK.

440a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def grading_rights(self):
  """
  Returns a list of dictionaries with the grading rights of the logged in user.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/resultat/internal/resultatrattighet/listaforinloggadanvandare',
    headers=self.headers)
  if r.status_code == requests.codes.ok:
    return r.json()['Resultatrattighet']
  raise LadokAPIError(f"failed to get grading rights: {r.text}")
```

Let's add a test. This should return a list of dictionaries.

440b ⟨*test functions* 120a⟩+≡

```
def test_grading_rights():
  r = ladok.grading_rights()
  assert type(r) == list
  assert type(r[0]) == dict
```

This code is used in chunk 115.

The output looks like this:

```
[
  {
    "_resultatrattighet": "Kursrattighet",
    "Anvandare": {
      "Anvandarnamn": "user@domain.se",
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
```

```
      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
    },
    "AviseraVidKlarForHelkurs": false,
    "AvserAvveckladKurs": false,
    "Benamning": "DD1301 Computer Introduction",
    "Gruppavgransningar": [],
    "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Teoretisk datalogi",
        "en": "EECS/Theoretical Computer Science"
      },
      "Kod": "JHT",
      "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "tillman@kth.se",
    "SenastSparad": "2026-01-29T10:51:14.672",
    "Studentavgransningar": [],
    "Uid": "0ce21f88-fcf8-11f0-9f6f-d1cf7b894209",
    "Utbildningstypbenamning": {
      "sv": "Kurs, grundniv\u00e5",
      "en": "Course, First-cycle"
    }
  },
  {
    "_resultatrattighet": "Kursrattighet",
    "Anvandare": {
      "Anvandarnamn": "user@domain.se",
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
    },
    "AviseraVidKlarForHelkurs": false,
    "AvserAvveckladKurs": false,
    "Benamning": "DD1301 Computer Introduction",
    "Gruppavgransningar": [],
    "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "ATTESTANT",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Teoretisk datalogi",
        "en": "EECS/Theoretical Computer Science"
```

```
      },
      "Kod": "JHT",
      "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "tillman@kth.se",
    "SenastSparad": "2026-01-29T10:51:14.702",
    "Studentavgransningar": [],
    "Uid": "0ce6b36a-fcf8-11f0-9f6f-d1cf7b894209",
    "Utbildningstypbenamning": {
      "sv": "Kurs, grundniv\u00e5",
      "en": "Course, First-cycle"
    }
  },
  {
    "_resultatrattighet": "Kursrattighet",
    "Anvandare": {
      "Anvandarnamn": "user@domain.se",
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
    },
    "AviseraVidKlarForHelkurs": false,
    "AvserAvveckladKurs": false,
    "Benamning": "DD1317 Programming Techniques",
    "Gruppavgransningar": [],
    "KursUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "ATTESTANT",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Teoretisk datalogi",
        "en": "EECS/Theoretical Computer Science"
      },
      "Kod": "JHT",
      "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "tillman@kth.se",
    "SenastSparad": "2026-01-29T11:38:36.16",
    "Studentavgransningar": [],
    "Uid": "aa8ac8c5-fcfe-11f0-9f6f-d1cf7b894209",
    "Utbildningstypbenamning": {
      "sv": "Kurs, grundniv\u00e5",
      "en": "Course, First-cycle"
    }
  },
```

```
  {
    "_resultatrattighet": "Kursrattighet",
    "Anvandare": {
      "Anvandarnamn": "user@domain.se",
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
    },
    "AviseraVidKlarForHelkurs": true,
    "AvserAvveckladKurs": false,
    "Benamning": "DD2520 Applied Cryptography",
    "Gruppavgransningar": [],
    "KursUID": "ab9c7c6b-d605-11e8-b094-9def723747ec",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Teoretisk datalogi",
        "en": "EECS/Theoretical Computer Science"
      },
      "Kod": "JHT",
      "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "liniyo@kth.se",
    "SenastSparad": "2026-01-30T08:32:27.702",
    "Studentavgransningar": [],
    "Uid": "d409163f-fdad-11f0-9bee-4a6818304b91",
    "Utbildningstypbenamning": {
      "sv": "Kurs, avancerad niv\u00e5",
      "en": "Course, Second-cycle"
    }
  },
  {
    "_resultatrattighet": "Kursrattighet",
    "Anvandare": {
      "Anvandarnamn": "user@domain.se",
      "Efternamn": "Studentzadeh",
      "Fornamn": "Student",
      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
    },
    "AviseraVidKlarForHelkurs": false,
    "AvserAvveckladKurs": false,
    "Benamning": "DD2520 Applied Cryptography",
    "Gruppavgransningar": [],
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    }
  }
]
```

20.2 organization_info_JSON

We can get information about the organization.

452a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def organization_info_JSON(self):
  """
  Returns a dictionary of organization information for the entire institution
  of the logged in user.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + '/resultat/internal/organisation/utanlankar',
    headers=self.headers)
  if r.status_code == requests.codes.ok:
    return r.json()
  raise LadokAPIError(f"failed to get organization info: {r.text}")
```

Let's add a test. This should return a dictionary.

452b ⟨*test functions* 120a⟩+≡

```
def test_organization_info_JSON():
  r = ladok.organization_info_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

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        "en": "KTH Student's Office/SI"
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```

```
        "en": "KTH School of Architecture"
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```

```
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```

```
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    },
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    },
    {
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      },
      "Kod": "TI",
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    },
    {
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        "sv": "IT",
        "en": "IT"
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    },
    {
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      },
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        "en": "Sustainability, Real Estate and Facility Service"
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```

```
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    },
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      },
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    },
    {
      "Benamning": {
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        "en": "KTH Library"
      },
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        "en": "University Administration"
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        "en": "University Administration"
      },
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```
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        "en": "KTH University Administration"
      },
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    },
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        "en": "University Administration"
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    },
    {
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        "en": "KTH/University Administration"
      },
      "Kod": "VDH",
      "Organisationsenhetstyp": "INSTITUTION",
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        "en": "University Administration"
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      "Kod": "VDI",
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    },
```

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        "en": "KTH/University Administration/Legal Department"
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    },
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      },
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    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/Lokalserviceavdelningen",
        "en": "KTH/University Administration"
      },
      "Kod": "VDO",
      "Organisationsenhetstyp": "INSTITUTION",
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    },
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        "en": "University Administration"
      },
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      "Uid": "ec8c1932-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
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        "en": "- No translation available -"
      },
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      "Uid": "ec8f4d89-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA",
        "en": "KTH University Administration"
      },
      "Kod": "VDV",
```

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4250      },
4251      {
4252        "Benamning": {
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4254          "en": "KTH Admissions Office"
4255        },
4256        "Kod": "VDVA",
4257        "Organisationsenhetstyp": "INSTITUTION",
4258        "Uid": "ec92a8f0-73d6-11e8-8c58-f9aa7f7e4fb6"
4259      },
4260      {
4261        "Benamning": {
4262          "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Examensgruppen",
4263          "en": "KTH Degree Administration Office"
4264        },
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4266        "Organisationsenhetstyp": "INSTITUTION",
4267        "Uid": "ec95b637-73d6-11e8-8c58-f9aa7f7e4fb6"
4268      },
4269      {
4270        "Benamning": {
4271          "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/VoS",
4272          "en": "KTH University Administration"
4273        },
4274        "Kod": "VDVC",
4275        "Organisationsenhetstyp": "INSTITUTION",
4276        "Uid": "ec99119e-73d6-11e8-8c58-f9aa7f7e4fb6"
4277      }
4278    ]
4279  }
```

20.3 `larosatesinformation_JSON`

536a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def larosatesinformation_JSON(self):
  """
  Returns a dictionary of the university or college information.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/internal/grunddata/larosatesinformation',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

536b ⟨*test functions* 120a⟩+≡

```
def test_larosatesinformation_JSON():
```

```
    r = ladok.larosatesinformation_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Larosatesinformation": [
    {
      "Benamning": {
        "sv": "Kungliga Tekniska h\u00f6gskolan",
        "en": "KTH Royal Institute of Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "ExtraAttribut": [],
      "Giltighetsperiod": {},
      "ID": "29",
      "Kod": "KTH",
      "LankTillWebbplats": {
        "Url": "https://www.kth.se/"
      },
      "LankTillWebbplatsEngelskSida": {
        "Url": "https://www.kth.se/en"
      },
      "LarosateID": 29,
      "OrtID": 18,
      "Postadress": {
        "Postnummer": "12345",
        "Postort": "Byn"
      },
      "Telefonnummer": "0701234567"
    }
  ]
}
```

20.4 undervisningssprak_JSON

537 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def undervisningssprak_JSON(self):
    """
    Returns a dictionary of teaching languages.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningssprak',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

538 ⟨*test functions* 120a⟩+≡

```
def test_undervisningssprak_JSON():
  r = ladok.undervisningssprak_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Undervisningssprak": [
    {
      "Benamning": {
        "sv": "Ryska",
        "en": "Russian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "RUS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Arabiska",
        "en": "Arabic"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "111032",
      "Kod": "ARA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Flerspr\u00e5kig undervisning",
        "en": "Multiple languages"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150758",
      "Kod": "MUL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Persiska",
        "en": "Persian"
      },
```

```
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150907",
      "Kod": "PER",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Me\u00e4nkieli",
        "en": "Me\u00e4nkieli"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "151967",
      "Kod": "FIT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Polska",
        "en": "Polish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "152516",
      "Kod": "POL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jiddisch",
        "en": "Yiddish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "160526",
      "Kod": "YID",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tjeckiska",
        "en": "Czech"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
```

```
      "ID": "161671",
      "Kod": "CES",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ukrainska",
        "en": "Ukrainian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "161674",
      "Kod": "UKR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Engelska",
        "en": "English"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "ENG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Teckenspr\u00e5k",
        "en": "Sign Language"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "SGN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Spanska",
        "en": "Spanish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "SPA",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Svenska",
        "en": "Swedish"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "SWE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Danska",
        "en": "Danish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109804",
      "Kod": "DAN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Finska",
        "en": "Finnish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109805",
      "Kod": "FIN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Italienska",
        "en": "Italian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109806",
      "Kod": "ITA",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Japanska",
        "en": "Japanese"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109807",
      "Kod": "JPN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norska",
        "en": "Norwegian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109808",
      "Kod": "NOR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Portugisiska",
        "en": "Portugese"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109809",
      "Kod": "POR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Franska",
        "en": "French"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109810",
      "Kod": "FRE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tyska",
        "en": "German"
      },
```

```
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "109811",
      "Kod": "GER",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kinesiska",
        "en": "Chinese"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "111033",
      "Kod": "CHI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kurdiska",
        "en": "Kurdish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150757",
      "Kod": "KUR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Turkiska",
        "en": "Turkish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150759",
      "Kod": "TUR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Isl\u00e4ndska",
        "en": "Icelandic"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
```

```
      "ID": "151538",
      "Kod": "ISL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Samiska",
        "en": "Sami"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "151968",
      "Kod": "SMI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Rum\u00e4nska",
        "en": "Romanian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "159549",
      "Kod": "RUM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Grekiska (modern)",
        "en": "Greek (modern)"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "160825",
      "Kod": "ELL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nederl\u00e4ndska",
        "en": "Dutch"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "161660",
      "Kod": "NLD",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Lettiska",
        "en": "Latvian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "161672",
      "Kod": "LAT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Litauiska",
        "en": "Lithuanian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "161673",
      "Kod": "LIT",
      "LarosateID": -1
    }
  ]
}
```

20.5 i18n_translation_JSON

545a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def i18n_translation_JSON(self, lang = 'sv'):
    """
    Returns a dictionary of i18n translations used in Ladok3.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/i18n/oversattningar/sprakkod/' + lang,
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

545b ⟨*test functions* 120a⟩+≡

```
  def test_i18n_translation_JSON():
    r = ladok.i18n_translation_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Oversattningar": [
    {
      "I18nNyckel": "commons.fel.detaljkod.utbildningsinformationsstruktur",
      "Text": "Struktur"
    },
    {
      "I18nNyckel": "systemaktivitet.bevakning.lasa",
      "Text": "Bevakning: L\u00e4s grundinformation"
    },
    {
      "I18nNyckel": "studentarende.besluta",
      "Text": "Besluta och avsluta"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.lan.beskrivning",
      "Text": "Regionalt f\u00f6rvaltningsomr\u00e5de, administrativ och geografisk indelning av Sverig
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student",
      "Text": "Studentinformation: S\u00f6ka student i hela Ladok - nationell r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte.student",
      "Text": "Student-Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_studieval",
      "Text": "Studiedeltagande: Studieval - endast l\u00e4sa"
    },
    {
      "I18nNyckel": "kataloginformation.fel.detaljkod.lokaltext",
      "Text": "Lokal text"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.bereda_avslag_studentarende",
      "Text": "Tillgodor\u00e4knande: Bereda avslag"
    },
    {
      "I18nNyckel": "arendestod.fel.detaljkod.fordelningsfilter",
      "Text": "F\u00f6rdelningsfilter"
    },
    {
      "I18nNyckel": "kataloginformation.fel.detaljkod.bestalld_tidpunkt",
      "Text": "Best\u00e4lld tidpunkt"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.hantera.nationell.bevisinformation",
      "Text": "Bevis: Hantera nationell bevisinformation"
```

```
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.tabort.attesterat_resultat",
      "Text": "Resultat: Ta bort attesterat resultat"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.handlagga_tillgodoraknande",
      "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r del av kurs inkl. klarmarke
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle.se_anonym_student.student",
      "Text": "Student-Resultat: Se student med anonymkod"
    },
    {
      "I18nNyckel": "commons.domain.anvandarnamn",
      "Text": "Anv\u00e4ndarnamn (EPPN)"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.autentisering_return_uri",
      "Text": "URI f\u00f6r att slutf\u00f6ra \u00e5tg\u00e4rd som kr\u00e4ver autentisering"
    },
    {
      "I18nNyckel": "commons.domain.larosate.hkr",
      "Text": "H\u00f6gskolan Kristianstad"
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student.lokal",
      "Text": "Studentinformation: S\u00f6ka student i hela Ladok - lokal r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.bevisansokan.av.student.student",
      "Text": "Student-Bevis: Bevisans\u00f6kan av student"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.definitionavantagningsomgang.beskrivning",
      "Text": "F\u00f6rdefinierad omg\u00e5ng f\u00f6r sammanh\u00e5llen hantering av anm\u00e4lningar
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.idpdata",
      "Text": "Idp data"
    },
    {
      "I18nNyckel": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
      "Text": "Ing\u00e5r i grupp: \u00d6verf\u00f6rs till NyA"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_registrering_efter_studieperiodens_slut",
      "Text": "Studiedeltagande: Ta bort registrering efter studieperiodens slut (kompletterande)"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.administrera.installningar.for.dokument",
```

```
      "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r dokument"
    },
    {
      "I18nNyckel": "systemaktivitet.uppfoljning.publicering.egen.utsokning",
      "Text": "Uppf\u00f6ljning: Publicera egen uts\u00f6kning"
    },
    {
      "I18nNyckel": "commons.domain.regel.informationsbehorighet.utbytesstudier",
      "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Utbytesstudier"
    },
    {
      "I18nNyckel": "commons.domain.regel.versionshanteras",
      "Text": "Versionshanteras"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera.flera.utbildningstillfalle.byt.stat
      "Text": "Utbildningsinformation: Hantera flera tillf\u00e4llen - S\u00e4tt status till p\u00e5b\u
    },
    {
      "I18nNyckel": "systemaktivitet.examen.bevisunderlag.andra_namn_vid_utfardande_av_bevis",
      "Text": "Bevis: \u00c4ndra students namn vid utf\u00e4rdande av bevis"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.procent",
      "Text": "Procent"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte",
      "Text": "Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.administrera.attesteringsrattigheter",
      "Text": "Resultat: Hantera attesteringsr\u00e4ttigheter"
    },
    {
      "I18nNyckel": "commons.domain.larosate.hhs",
      "Text": "Handelsh\u00f6gskolan i Stockholm"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.utfarda.bevis.for.skyddad.student",
      "Text": "Bevis: Hantera bevis f\u00f6r student med skyddade personuppgifter"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.tillat_forvantat_deltagande_trots_avskiljande",
      "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande f\u00f6r partiellt avski
    },
    {
      "I18nNyckel": "extintegration.arende.antagningsarende",
      "Text": "Antagnings\u00e4rende"
    },
    {
```

```
      "I18nNyckel": "systemaktivitet.extintegration.skapa.registreringsintyg.student",
      "Text": "Student-Intyg: Skapa registreringsintyg"
    },
    {
      "I18nNyckel": "commons.domain.larosate.hig",
      "Text": "H\u00f6gskolan i G\u00e4vle"
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.ta.bort.student",
      "Text": "Studentinformation: Ta bort student utan kopplingar till l\u00e4ros\u00e4ten"
    },
    {
      "I18nNyckel": "tillitsniva.5",
      "Text": "SWAMID AL3"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.period",
      "Text": "Period"
    },
    {
      "I18nNyckel": "commons.domain.utbildningstyp.utbytesavtal",
      "Text": "Utbytesavtal"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.tillat_registrering_omregistrering_vid_avklarad_k
      "Text": "Studiedeltagande: Registrera i efterhand p\u00e5 avklarad kurs (kompletterande)"
    },
    {
      "I18nNyckel": "commons.domain.utbildningstillfalleskod",
      "Text": "Tillf\u00e4lleskod"
    },
    {
      "I18nNyckel": "commons.domain.tidpunkt",
      "Text": "Tidpunkt"
    },
    {
      "I18nNyckel": "systemaktivitet.processhantering.nationell_administration",
      "Text": "Processt\u00f6d: Nationell administration"
    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.agera.ombud.for.student",
      "Text": "Beh\u00f6righetshantering: Agera ombud f\u00f6r student"
    },
    {
      "I18nNyckel": "systemaktivitet.isp.avklara_isp",
      "Text": "Individuell studieplan: Ange som Avklarad"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.informationsbehorighet.polisutbildning",
      "Text": "Studiedeltagande: Informationsbeh\u00f6righet - Polisutbildning"
    },
```

```
    {
      "I18nNyckel": "tillitsniva.2",
      "Text": "L\u00f6senordsinloggning"
    },
    {
      "I18nNyckel": "tillitsniva.3",
      "Text": "SWAMID AL2"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.antagningsomgang.beskrivning",
      "Text": "Sammanh\u00e5llen hantering av anm\u00e4lningar till h\u00f6gskoleutbildning med gemensa
    },
    {
      "I18nNyckel": "commons.fel.grupp.varde_forandrat",
      "Text": "V\u00e4rde f\u00f6r\u00e4ndrat"
    },
    {
      "I18nNyckel": "arendestod.bevisarende.notering.bevismetadata_vald",
      "Text": "Bevis valt"
    },
    {
      "I18nNyckel": "systemaktivitet.arendestod.hantera.arende.fritext.vid.sokning",
      "Text": "Studiedeltagande: Hantera fritext\u00e4rende vid s\u00f6kning (kompletterande)"
    },
    {
      "I18nNyckel": "commons.domain.larosate.lnu",
      "Text": "Linn\u00e9universitetet"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.startperiod",
      "Text": "Startperiod"
    },
    {
      "I18nNyckel": "kataloginformation.fel.detaljkod.takt",
      "Text": "Takt"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_avbrott_pa_kurspaketering",
      "Text": "Studiedeltagande: Ta bort avbrott p\u00e5 kurspaketering"
    },
    {
      "I18nNyckel": "commons.fel.grupp.resurs_saknas",
      "Text": "Den beg\u00e4rda resursen finns inte p\u00e5 servern"
    },
    {
      "I18nNyckel": "commons.fel.kategori.sakerhetsovertradelse",
      "Text": "Beh\u00f6righet saknas"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.lagg_till_kurspaketeringstillfalle_till_utb
      "Text": "Utbudsomg\u00e5ng: L\u00e4gg till p\u00e5g\u00e5ende kurspaketeringstillf\u00e4llen till
```

```
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.vidimera.merit.ratta",
      "Text": "Resultat: R\u00e4tta annan merit"
    },
    {
      "I18nNyckel": "kataloginformation.fel.detaljkod.lan",
      "Text": "L\u00e4n"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle.se_anonym_student",
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      "Text": "Agera ombud f\u00f6r student"
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    },
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      "Text": "Uppf\u00f6ljning: Skapa SCB-rapporter"
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    },
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      "Text": "Avisering till studenter - Tillgodor\u00e4knande - meddelande"
    },
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    },
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    {
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    },
    {
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      "Text": "\u00d6verliggande part"
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      "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - YH-Utbildning"
    },
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      "Text": "Nationellt definierad och lokalt fastst\u00e4lld period"
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    {
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      "Text": "Student-Studiedeltagande: Studieval - endast l\u00e4sa"
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      "Text": "Avisering till studenter - Bevakning - ISP"
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    {
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    },
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      "Text": "Bevis: Hantera bevis\u00e4rende"
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    },
    {
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    {
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    },
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    },
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    {
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      "Text": "Studieavgifter: L\u00e4sa information"
    },
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      "Text": "Resultat: L\u00e4sa rapporteringsr\u00e4ttigheter"
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    },
    {
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    },
    {
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    },
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    },
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    },
    {
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      "Text": "Processt\u00f6d: L\u00e4sa information"
    },
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    },
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    },
    {
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      "Text": "Kan utannonseras"
    },
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    },
    {
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      "Text": "V\u00e4rde"
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    },
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    },
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    },
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    },
    {
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    },
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    },
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    },
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    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.administrera.utbildningsinformationsstruktu
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    },
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      "Text": "Har omfattning"
    },
    {
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      "Text": "Utbildningsinformation: Ta bort utbildningstillf\u00e4lle i status utkast/p\u00e5b\u00f6
    },
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    },
    {
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    },
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    },
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      "Text": "Uppf\u00f6ljning: Visa i meny"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.rapportera.merit",
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    },
    {
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    },
    {
      "I18nNyckel": "commons.fel.detaljkod.beskrivning",
      "Text": "Beskrivning"
    },
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    },
    {
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      "Text": "Menyval: Tillgodor\u00e4knande"
    },
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      "Text": "Bilaga"
    },
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      "Text": "Ing\u00e5r i grupp: Inresande"
    },
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      "I18nNyckel": "systemfunktion.id.10015",
      "Text": "Spara utl\u00e4ndsk ort p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10016",
      "Text": "Spara utl\u00e4ndsk ort p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10017",
      "Text": "Spara l\u00e4ros\u00e4tesinformation p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.finansieringsform.beskrivning",
      "Text": "Beteckning f\u00f6r att klassificera visst utbildningsutbud (utbildningstillf\u00e4llen)
```

```
    },
    {
      "I18nNyckel": "arendestod.notering.admin",
      "Text": "Notering"
    },
    {
      "I18nNyckel": "systemfunktion.id.10022",
      "Text": "Spara period p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10024",
      "Text": "Spara nationell mall f\u00f6r period"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.skapa",
      "Text": "Utbildningsinformation: L\u00e4gg till nytt utbildningstillf\u00e4lle"
    },
    {
      "I18nNyckel": "systemfunktion.id.10026",
      "Text": "Spara periodtyp p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10027",
      "Text": "Spara periodtyp p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.arendestod.hantera.arende.bevis.vid.sokning",
      "Text": "Bevis: Hantera bevis\u00e4rende vid s\u00f6kning (kompletterande)"
    },
    {
      "I18nNyckel": "rattighetsniva.nationell",
      "Text": "Nationella r\u00e4ttigheter"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.tilltradesniva",
      "Text": "Tilltr\u00e4desniv\u00e5"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.extern_part",
      "Text": "Extern part"
    },
    {
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      "Text": "Resultat: Attestera resultat"
    },
    {
      "I18nNyckel": "kataloginformation.fel.detaljkod.antagningsomgang",
      "Text": "Lokal antagningsomg\u00e5ng"
    },
    {
      "I18nNyckel": "systemfunktion.id.10032",
```

```
      "Text": "Spara finansieringsform p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.organisationsenhetstyp",
      "Text": "Organisationsenhetstyp"
    },
    {
      "I18nNyckel": "systemfunktion.id.10033",
      "Text": "Spara undervisningsform p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.larosate.liu",
      "Text": "Link\u00f6pings universitet"
    },
    {
      "I18nNyckel": "commons.kompletterande.meddelande.anvandare_far_ej_lasa_objekt",
      "Text": "Objektet f\u00e5r inte l\u00e4sas av aktuell anv\u00e4ndare."
    },
    {
      "I18nNyckel": "systemfunktion.id.10034",
      "Text": "Spara undervisningsform p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.hamta.registreringsintyg",
      "Text": "Studieintyg: H\u00e4mta registreringsintyg"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.utfor_val",
      "Text": "Studiedeltagande: Hantera studieval inom valperiod"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.aktivitetstillfallestyp.beskrivning",
      "Text": "Kategorisering av aktivitetstillf\u00e4llen som m\u00f6jligg\u00f6r strukturerade s\u00f
    },
    {
      "I18nNyckel": "systemfunktion.id.10030",
      "Text": "Spara utbildningsomr\u00e5de p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.ta.fram.bevisdokument",
      "Text": "Bevis: Ta fram bevisdokument"
    },
    {
      "I18nNyckel": "systemfunktion.id.10031",
      "Text": "Spara finansieringsform p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.nyckel_ingen_oversattning",
      "Text": "Ingen \u00f6vers\u00e4ttning p\u00e5 nyckel: {0}."
    },
    {
```

```
      "I18nNyckel": "systemfunktion.id.10037",
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    },
    {
      "I18nNyckel": "systemfunktion.id.10038",
      "Text": "Spara undervisningstid p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10039",
      "Text": "Spara undervisningstid p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.utbildningstyp",
      "Text": "Utbildningstyp"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.amnesgrupp",
      "Text": "\u00c4mnesgrupp"
    },
    {
      "I18nNyckel": "commons.domain.regel.informationsbehorighet.polisutbildning",
      "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Polisutbildning"
    },
    {
      "I18nNyckel": "dokumenthantering.fel.detaljkod.dokumentmall_parameter_nyckel",
      "Text": "Parameternyckel"
    },
    {
      "I18nNyckel": "kataloginformation.grupp.for.utsokning.forskarniva",
      "Text": "Forskarniv\u00e5"
    },
    {
      "I18nNyckel": "arendestod.status.8.understatus",
      "Text": "Delvis bifall"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.meddela_avbrott_pa_kurspaketering.student",
      "Text": "Student-Studiedeltagande: Meddela avbrott p\u00e5 kurspaketering"
    },
    {
      "I18nNyckel": "systemaktivitet.bevakning.hantera_bevakningsmallar",
      "Text": "Bevakning: Hantera bevakningsmallar"
    },
    {
      "I18nNyckel": "systemfunktion.id.10043",
      "Text": "Spara organisationskopplingstyp p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10044",
      "Text": "Spara studietakt p\u00e5 lokal niv\u00e5"
    },
```

```
    {
      "I18nNyckel": "systemfunktion.id.10045",
      "Text": "Spara studietakt p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10046",
      "Text": "Spara f\u00f6rkunskapsniv\u00e5 p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10042",
      "Text": "Spara \u00e4mnesgrupp p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.vidimera.merit.tillaten.i.gemensam.examen",
      "Text": "Resultat: Till\u00e5t annan merit i gemensam examen"
    },
    {
      "I18nNyckel": "systemaktivitet.tabort.vidimerad.merit",
      "Text": "Resultat: Ta bort annan merit"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.skapa_forvantat_deltagande_for_flera_studenter.yt
      "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 yttre paketering
    },
    {
      "I18nNyckel": "systemfunktion.id.10047",
      "Text": "Spara f\u00f6rkunskapsniv\u00e5 p\u00e5 nationell niv\u00e5"
    },
    {
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      "Text": "Common: Internt anrop f\u00f6r funktionsflaggor"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.betygsgrad",
      "Text": "Betygsgrad"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.las.studiebehorigheter",
      "Text": "Studiedeltagande: L\u00e4sa studiebeh\u00f6righeter"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.uppdatera.utbildningsomrade.i.status.komple
      "Text": "Utbildningsinformation: Hantera utbildningsomr\u00e5de f\u00f6r utbildning i status komp
    },
    {
      "I18nNyckel": "commons.kompletterande.meddelande.behorighet_saknas",
      "Text": "Beh\u00f6righet saknas."
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.studietakt",
      "Text": "Studietakt"
```

```
    },
    {
      "I18nNyckel": "systemaktivitet.examen.hantera.resultatintyg.student",
      "Text": "Student-Examen: H\u00e4mta eget resultatintyg"
    },
    {
      "I18nNyckel": "systemfunktion.id.10054",
      "Text": "Spara \u00e4mnesklass p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10055",
      "Text": "Spara \u00e4mnesklass p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.arendestod.hantera.bilagor",
      "Text": "\u00c4rendest\u00f6d: Hantera bilagor (gammal l\u00f6sning)"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.administrera_resultatrapportorer",
      "Text": "Resultat: Administrera resultatrapport\u00f6rer"
    },
    {
      "I18nNyckel": "systemfunktion.id.10056",
      "Text": "Spara typ av extern part p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10057",
      "Text": "Spara externpart p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10050",
      "Text": "Spara f\u00f6rdjupningsniv\u00e5 p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.regel.utbildningstypsgrupp.yh.utbildning",
      "Text": "YH-Utbildning"
    },
    {
      "I18nNyckel": "systemfunktion.id.10051",
      "Text": "Spara f\u00f6rdjupningsniv\u00e5 p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.common.basbehorighet",
      "Text": "Common: basbeh\u00f6righet f\u00f6r att anv\u00e4nda systemet"
    },
    {
      "I18nNyckel": "commons.domain.regel.utbildningstypsgrupp.forskarutbildning",
      "Text": "Forskarniv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10058",
```

```
      "Text": "Spara externpart p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.utbildningstillfallestyp.programtillfalle",
      "Text": "Programtillf\u00e4lle"
    },
    {
      "I18nNyckel": "systemfunktion.id.10059",
      "Text": "Spara successiv f\u00f6rdjupning p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.dokumentera_avbrott_pa_kurs",
      "Text": "Studiedeltagande: Dokumentera avbrott p\u00e5 kurs"
    },
    {
      "I18nNyckel": "systemaktivitet.isp.soka_isp",
      "Text": "Individuell studieplan: S\u00f6ka individuell studieplan"
    },
    {
      "I18nNyckel": "systemfunktion.id.10060",
      "Text": "Spara successiv f\u00f6rdjupning p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformation.organisation.skriv",
      "Text": "Kataloginformation: Hantera l\u00e4ros\u00e4tets organisationsstruktur"
    },
    {
      "I18nNyckel": "commons.domain.regel.sjalvstandig",
      "Text": "Sj\u00e4lvst\u00e4ndig"
    },
    {
      "I18nNyckel": "systemfunktion.id.10065",
      "Text": "Spara lokalm\u00e4rkning p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10066",
      "Text": "Spara studiefinansiering p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10067",
      "Text": "Spara studiefinansiering p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10068",
      "Text": "Spara nationell examensgrupp"
    },
    {
      "I18nNyckel": "systemfunktion.id.10061",
      "Text": "Spara studielokalisering p\u00e5 lokal niv\u00e5"
    },
    {
```

```
      "I18nNyckel": "systemfunktion.id.10062",
      "Text": "Spara enhet p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10063",
      "Text": "Spara utbytesprogram p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10064",
      "Text": "Spara utbytesprogram p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.arendestod.hantera.arende.avliden.vid.sokning",
      "Text": "Studentinformation: Hantera avliden\u00e4rende vid s\u00f6kning (kompletterande)"
    },
    {
      "I18nNyckel": "systemfunktion.id.10069",
      "Text": "Spara undervisningsspr\u00e5k p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.makulera_litteraturlista",
      "Text": "Utbildningsinformation: Makulera litteraturlista"
    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformation.grunddata.administrera.lokal",
      "Text": "Kataloginformation: Hantera grunddata - lokal r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.anvandare.skriv",
      "Text": "Beh\u00f6righetshantering: Hantera anv\u00e4ndare - lokal r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.studieperiod",
      "Text": "Studieperiod"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.undervisningsform",
      "Text": "Undervisningsform"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.pingintegration_lasa_ej_paborjade_tillfallesantag
      "Text": "Studiedeltagande: Pingintegration l\u00e4sa ej p\u00e5b\u00f6rjade tillf\u00e4llesantagn
    },
    {
      "I18nNyckel": "systemfunktion.id.10071",
      "Text": "Spara organisationsenhetstyp p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.administrera.lokal.installning.modul.i.bevis",
      "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r moduler i bevis"
    },
```

```
    {
      "I18nNyckel": "arendestod.fel.detaljkod.handlaggare",
      "Text": "Handl\u00e4ggare"
    },
    {
      "I18nNyckel": "systemfunktion.id.10076",
      "Text": "Spara utbildningsregel p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10077",
      "Text": "Spara orsak till ej avgitsskyldig p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10078",
      "Text": "Spara orsak till avst\u00e4ngning p\u00e5 nationell niv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.larosate.cth",
      "Text": "Chalmers tekniska h\u00f6gskola"
    },
    {
      "I18nNyckel": "systemfunktion.id.10079",
      "Text": "Spara tj\u00e4nstekonfigurationsobjekt p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemfunktion.id.10073",
      "Text": "Spara konfiguration av autentisering p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.redigera_publicerade_attributvarden_i_plan"
      "Text": "Utbildningsinformation: Redigera publicerade attributv\u00e4rden i plan"
    },
    {
      "I18nNyckel": "systemfunktion.id.10074",
      "Text": "H\u00e4mta konfiguration av autentisering p\u00e5 lokal niv\u00e5"
    }
  ]
}
```

20.6 svenskorter_JSON

666 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def svenskorter_JSON(self):
    """
    Returns a dictionary of Swedish places with their KommunID.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/svenskort',
      headers=self.headers).json()
```

```
  return r
```

Let's add a test. This should return a dictionary.

667 ⟨*test functions* 120a⟩+≡

```
def test_svenskorter_JSON():
  r = ladok.svenskorter_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "SvenskOrt": [
    {
      "Benamning": {
        "sv": "Upplands V\u00e4sby",
        "en": "Upplands V\u00e4sby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "T0384",
      "KommunID": "1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vallentuna",
        "en": "Vallentuna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "T0388",
      "KommunID": "2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c5kersberga",
        "en": "\u00c5kersberga"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "T0408",
      "KommunID": "3",
      "LarosateID": -1
    },
```

```
    {
      "Benamning": {
        "sv": "Gustavsberg",
        "en": "Gustavsberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "T0172",
      "KommunID": "4",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jakobsberg",
        "en": "Jakobsberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "TX016",
      "KommunID": "5",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Eker\u00f6",
        "en": "Eker\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "6",
      "Kod": "T0150",
      "KommunID": "6",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Flemingsberg",
        "en": "Flemingsberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "7",
      "Kod": "TX012",
      "KommunID": "7",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Tumba (Botkyrka)",
        "en": "Tumba (Botkyrka)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "8",
      "Kod": "T0372",
      "KommunID": "8",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "R\u00f6nninge",
        "en": "R\u00f6nninge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "9",
      "Kod": "TX028",
      "KommunID": "9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Handen",
        "en": "Handen"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "KommunID": "261",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nordmaling",
        "en": "Nordmaling"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "294",
      "Kod": "T8256",
      "KommunID": "262",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bjurholm",
        "en": "Bjurholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "295",
      "Kod": "T8120",
      "KommunID": "263",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Flyinge",
        "en": "Flyinge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101190",
      "Kod": "T3400",
      "KommunID": "122",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Onsala",
        "en": "Onsala"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101191",
      "Kod": "T4054",
      "KommunID": "134",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Str\u00f6msholm",
        "en": "Str\u00f6msholm"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101192",
      "Kod": "T6328",
      "KommunID": "215",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Garpenberg",
        "en": "Garpenberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101193",
      "Kod": "T6532",
      "KommunID": "234",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "F\u00e4rila",
        "en": "F\u00e4rila"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101194",
      "Kod": "T7064",
      "KommunID": "241",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00f6r\u00e5ker",
        "en": "S\u00f6r\u00e5ker"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101195",
      "Kod": "T7762",
      "KommunID": "248",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4stra Bispg\u00e5rden",
        "en": "V\u00e4stra Bispg\u00e5rden"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101196",
      "Kod": "T7808",
      "KommunID": "254",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Hammerdal",
        "en": "Hammerdal"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101197",
      "Kod": "T7860",
      "KommunID": "257",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Hemavan",
        "en": "Hemavan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101198",
      "Kod": "T8198",
      "KommunID": "268",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "T\u00e4rnaby",
        "en": "T\u00e4rnaby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101199",
      "Kod": "T8364",
      "KommunID": "268",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ammarn\u00e4s",
```

```
        "en": "Ammarn\u00e4s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101200",
      "Kod": "S8405",
      "KommunID": "269",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norrbyn",
        "en": "Norrbyn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101201",
      "Kod": "TX814",
      "KommunID": "274",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vuollerim",
        "en": "Vuollerim"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101202",
      "Kod": "T8920",
      "KommunID": "279",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00f6dra Sunderbyn",
        "en": "S\u00f6dra Sunderbyn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101203",
      "Kod": "T8880",
      "KommunID": "286",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Abisko",
        "en": "Abisko"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101204",
      "Kod": "S9013",
      "KommunID": "290",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "G\u00f6teborg (Partille)",
        "en": "G\u00f6teborg (Partille)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "112678",
      "Kod": "L1402",
      "KommunID": "136",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Alnarp",
        "en": "Alnarp"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "121570",
      "Kod": "TX400",
      "KommunID": "104",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Burl\u00f6v",
        "en": "Burl\u00f6v"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "149908",
      "Kod": "L1231",
      "KommunID": "98",
      "LarosateID": -1
    },
    {
```

```
4632        "Benamning": {
4633          "sv": "Stockholm (J\u00e4rf\u00e4lla)",
4634          "en": "Stockholm (J\u00e4rf\u00e4lla)"
4635        },
4636        "Beskrivning": {},
4637        "Dolt": false,
4638        "Giltighetsperiod": {},
4639        "ID": "151531",
4640        "Kod": "L0123",
4641        "KommunID": "5",
4642        "LarosateID": -1
4643      },
4644      {
4645        "Benamning": {
4646          "sv": "Salem",
4647          "en": "Salem"
4648        },
4649        "Beskrivning": {},
4650        "Dolt": false,
4651        "Giltighetsperiod": {},
4652        "ID": "151548",
4653        "Kod": "L0128",
4654        "KommunID": "9",
4655        "LarosateID": -1
4656      }
4657    ]
4658  }
```

20.7 kommuner_JSON

758a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def kommuner_JSON(self):
    """
    Returns a dictionary of Swedish municipalities.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/kommun',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

758b ⟨*test functions* 120a⟩+≡

```
  def test_kommuner_JSON():
    r = ladok.kommuner_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
1  {
```

```
  "Kommun": [
    {
      "Benamning": {
        "sv": "Upplands V\u00e4sby",
        "en": "Upplands V\u00e4sby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "0114",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vallentuna",
        "en": "Vallentuna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "0115",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6ster\u00e5ker",
        "en": "\u00d6ster\u00e5ker"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "0117",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4rmd\u00f6",
        "en": "V\u00e4rmd\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "0120",
      "LanID": 1,
```

```
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "J\u00e4rf\u00e4lla",
        "en": "J\u00e4rf\u00e4lla"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "0123",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Eker\u00f6",
        "en": "Eker\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "6",
      "Kod": "0125",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Huddinge",
        "en": "Huddinge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "7",
      "Kod": "0126",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Botkyrka",
        "en": "Botkyrka"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "8",
      "Kod": "0127",
```

```
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Salem",
        "en": "Salem"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "9",
      "Kod": "0128",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Haninge",
        "en": "Haninge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "10",
      "Kod": "0136",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tyres\u00f6",
        "en": "Tyres\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "11",
      "Kod": "0138",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Upplands-Bro",
        "en": "Upplands-Bro"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "12",
```

```
      "Kod": "0139",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nykvarn",
        "en": "Nykvarn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "13",
      "Kod": "0140",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "T\u00e4by",
        "en": "T\u00e4by"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "14",
      "Kod": "0160",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Trosa",
        "en": "Trosa"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "43",
      "Kod": "0488",
      "LanID": 3,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6desh\u00f6g",
        "en": "\u00d6desh\u00f6g"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "44",
      "Kod": "0509",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ydre",
        "en": "Ydre"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "45",
      "Kod": "0512",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kinda",
        "en": "Kinda"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "46",
      "Kod": "0513",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Boxholm",
        "en": "Boxholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "47",
      "Kod": "0560",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c5tvidaberg",
        "en": "\u00c5tvidaberg"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "48",
      "Kod": "0561",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Finsp\u00e5ng",
        "en": "Finsp\u00e5ng"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "49",
      "Kod": "0562",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Valdemarsvik",
        "en": "Valdemarsvik"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "50",
      "Kod": "0563",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Link\u00f6ping",
        "en": "Link\u00f6ping"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "51",
      "Kod": "0580",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norrk\u00f6ping",
        "en": "Norrk\u00f6ping"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "52",
      "Kod": "0581",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00f6derk\u00f6ping",
        "en": "S\u00f6derk\u00f6ping"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "53",
      "Kod": "0582",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Motala",
        "en": "Motala"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "54",
      "Kod": "0583",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vadstena",
        "en": "Vadstena"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "55",
      "Kod": "0584",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mj\u00f6lby",
        "en": "Mj\u00f6lby"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "56",
      "Kod": "0586",
      "LanID": 4,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nybro",
        "en": "Nybro"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "85",
      "Kod": "0881",
      "LanID": 7,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Oskarshamn",
        "en": "Oskarshamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "86",
      "Kod": "0882",
      "LanID": 7,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4stervik",
        "en": "V\u00e4stervik"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "87",
      "Kod": "0883",
      "LanID": 7,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vimmerby",
        "en": "Vimmerby"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "88",
      "Kod": "0884",
      "LanID": 7,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Borgholm",
        "en": "Borgholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "89",
      "Kod": "0885",
      "LanID": 7,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Gotland",
        "en": "Gotland"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "90",
      "Kod": "0980",
      "LanID": 8,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Olofstr\u00f6m",
        "en": "Olofstr\u00f6m"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "91",
      "Kod": "1060",
      "LanID": 9,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Karlskrona",
```

```
        "en": "Karlskrona"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "92",
      "Kod": "1080",
      "LanID": 9,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ronneby",
        "en": "Ronneby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "93",
      "Kod": "1081",
      "LanID": 9,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Karlshamn",
        "en": "Karlshamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "94",
      "Kod": "1082",
      "LanID": 9,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00f6lvesborg",
        "en": "S\u00f6lvesborg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "95",
      "Kod": "1083",
      "LanID": 9,
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Sval\u00f6v",
        "en": "Sval\u00f6v"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "96",
      "Kod": "1214",
      "LanID": 10,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Staffanstorp",
        "en": "Staffanstorp"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "97",
      "Kod": "1230",
      "LanID": 10,
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        "en": "Katrineholm"
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      "Benamning": {
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        "en": "Lund"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "118",
      "Kod": "1281",
      "LanID": 10,
      "LarosateID": -1
    },
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      "Benamning": {
        "sv": "Landskrona",
        "en": "Landskrona"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "1282",
      "LanID": 10,
      "LarosateID": -1
```

```
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      "Benamning": {
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        "en": "Helsingborg"
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      "Beskrivning": {},
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      "Giltighetsperiod": {},
      "ID": "120",
      "Kod": "1283",
      "LanID": 10,
      "LarosateID": -1
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      "Benamning": {
        "sv": "H\u00f6gan\u00e4s",
        "en": "H\u00f6gan\u00e4s"
      },
      "Beskrivning": {},
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      "LarosateID": -1
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        "en": "Esl\u00f6v"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "122",
      "Kod": "1285",
      "LanID": 10,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ystad",
        "en": "Ystad"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "1286",
      "LanID": 10,
```

```
      "LarosateID": -1
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      "Benamning": {
        "sv": "Trelleborg",
        "en": "Trelleborg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "124",
      "Kod": "1287",
      "LanID": 10,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kristianstad",
        "en": "Kristianstad"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LanID": 10,
      "LarosateID": -1
    },
    {
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        "sv": "Simrishamn",
        "en": "Simrishamn"
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      "Beskrivning": {},
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      "LanID": 10,
      "LarosateID": -1
    },
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      "Benamning": {
        "sv": "G\u00f6teborg",
        "en": "G\u00f6teborg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "165",
      "Kod": "1480",
```

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      "LanID": 12,
      "LarosateID": -1
    },
    {
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        "sv": "M\u00f6lndal",
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      },
      "Beskrivning": {},
      "Dolt": false,
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      "ID": "166",
      "Kod": "1481",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kung\u00e4lv",
        "en": "Kung\u00e4lv"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Kod": "1482",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Lysekil",
        "en": "Lysekil"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "168",
      "Kod": "1484",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Uddevalla",
        "en": "Uddevalla"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "169",
```

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      "Kod": "1485",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Str\u00f6mstad",
        "en": "Str\u00f6mstad"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "170",
      "Kod": "1486",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4nersborg",
        "en": "V\u00e4nersborg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "171",
      "Kod": "1487",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Trollh\u00e4ttan",
        "en": "Trollh\u00e4ttan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "172",
      "Kod": "1488",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Alings\u00e5s",
        "en": "Alings\u00e5s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

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      "ID": "173",
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      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bor\u00e5s",
        "en": "Bor\u00e5s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "174",
      "Kod": "1490",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ulricehamn",
        "en": "Ulricehamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "175",
      "Kod": "1491",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c5m\u00e5l",
        "en": "\u00c5m\u00e5l"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "176",
      "Kod": "1492",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mariestad",
        "en": "Mariestad"
      },
      "Beskrivning": {},
      "Dolt": false,
```

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      "Giltighetsperiod": {},
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      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Lidk\u00f6ping",
        "en": "Lidk\u00f6ping"
      },
      "Beskrivning": {},
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      "Kod": "1494",
      "LanID": 12,
      "LarosateID": -1
    },
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        "en": "K\u00f6ping"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "220",
      "Kod": "1983",
      "LanID": 15,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Arboga",
        "en": "Arboga"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "221",
      "Kod": "1984",
      "LanID": 15,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vansbro",
        "en": "Vansbro"
      },
      "Beskrivning": {},
```

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      "ID": "222",
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      "LanID": 16,
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    },
    {
      "Benamning": {
        "sv": "Malung-S\u00e4len",
        "en": "Malung-S\u00e4len"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "223",
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      "LanID": 16,
      "LarosateID": -1
    },
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        "sv": "Gagnef",
        "en": "Gagnef"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "ID": "224",
      "Kod": "2026",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Leksand",
        "en": "Leksand"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "225",
      "Kod": "2029",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "R\u00e4ttvik",
        "en": "R\u00e4ttvik"
      },
```

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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "226",
      "Kod": "2031",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Orsa",
        "en": "Orsa"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "227",
      "Kod": "2034",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c4lvdalen",
        "en": "\u00c4lvdalen"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "228",
      "Kod": "2039",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Smedjebacken",
        "en": "Smedjebacken"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "229",
      "Kod": "2061",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mora",
        "en": "Mora"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "230",
      "Kod": "2062",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Falun",
        "en": "Falun"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "231",
      "Kod": "2080",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Borl\u00e4nge",
        "en": "Borl\u00e4nge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "232",
      "Kod": "2081",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00e4ter",
        "en": "S\u00e4ter"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "233",
      "Kod": "2082",
      "LanID": 16,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nordmaling",
```

```
        "en": "Nordmaling"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "262",
      "Kod": "2401",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bjurholm",
        "en": "Bjurholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "263",
      "Kod": "2403",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vindeln",
        "en": "Vindeln"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "264",
      "Kod": "2404",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Robertsfors",
        "en": "Robertsfors"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "265",
      "Kod": "2409",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Norsj\u00f6",
        "en": "Norsj\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "266",
      "Kod": "2417",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mal\u00e5",
        "en": "Mal\u00e5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "267",
      "Kod": "2418",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Storuman",
        "en": "Storuman"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "268",
      "Kod": "2421",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sorsele",
        "en": "Sorsele"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "269",
      "Kod": "2422",
      "LanID": 20,
      "LarosateID": -1
    },
    {
```

```
      "Benamning": {
        "sv": "Dorotea",
        "en": "Dorotea"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "270",
      "Kod": "2425",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4nn\u00e4s",
        "en": "V\u00e4nn\u00e4s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "271",
      "Kod": "2460",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vilhelmina",
        "en": "Vilhelmina"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "272",
      "Kod": "2462",
      "LanID": 20,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c5sele",
        "en": "\u00c5sele"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "273",
      "Kod": "2463",
      "LanID": 20,
      "LarosateID": -1
    },
```

```
3776      {
3777        "Benamning": {
3778          "sv": "Ume\u00e5",
3779          "en": "Ume\u00e5"
3780        },
3781        "Beskrivning": {},
3782        "Dolt": false,
3783        "Giltighetsperiod": {},
3784        "ID": "274",
3785        "Kod": "2480",
3786        "LanID": 20,
3787        "LarosateID": -1
3788      },
3789      {
3790        "Benamning": {
3791          "sv": "Lycksele",
3792          "en": "Lycksele"
3793        },
3794        "Beskrivning": {},
3795        "Dolt": false,
3796        "Giltighetsperiod": {},
3797        "ID": "275",
3798        "Kod": "2481",
3799        "LanID": 20,
3800        "LarosateID": -1
3801      }
3802    ]
3803  }
```

20.8 lander_JSON

833a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def lander_JSON(self):
    """
    Returns a dictionary of countries.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/land',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

833b ⟨*test functions* 120a⟩+≡

```
  def test_lander_JSON():
    r = ladok.lander_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Land": [
    {
      "Benamning": {
        "sv": "Sverige",
        "en": "Sweden"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "184",
      "Kod": "SE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "F\u00f6renade Arabemiraten",
        "en": "United Arab Emirates"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "AE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Afghanistan",
        "en": "Afghanistan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "AF",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Albanien",
        "en": "Albania"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "AL",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Armenien",
        "en": "Armenia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "AM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Angola",
        "en": "Angola"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "AO",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Argentina",
        "en": "Argentina"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "6",
      "Kod": "AR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6sterrike",
        "en": "Austria"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "7",
      "Kod": "AT",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Australien",
        "en": "Australia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "8",
      "Kod": "AU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Azerbajdzjan",
        "en": "Azerbaijan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "9",
      "Kod": "AZ",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bosnien och Hercegovina",
        "en": "Bosnia and Herzegovina"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "10",
      "Kod": "BA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bahamas",
        "en": "Bahamas"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "22",
      "Kod": "BS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bhutan",
        "en": "Bhutan"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "23",
      "Kod": "BT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Botswana",
        "en": "Botswana"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "24",
      "Kod": "BW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Belarus",
        "en": "Belarus"
      },
      "Beskrivning": {
        "sv": "Vitryssland. Fr\u00e5n 2019-11-24 anv\u00e4der Utrikesdepartementet officiellt namnet Be
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "25",
      "Kod": "BY",
      "LarosateID": -1
    },
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        "en": "Papua New Guinea"
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        "en": "Romania"
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    },
    {
      "Benamning": {
        "sv": "Turks- och Caicos\u00f6arna",
        "en": "Turks and Caicos Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101039",
      "Kod": "TC",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tuvalu",
        "en": "Tuvalu"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101040",
      "Kod": "TV",
      "LarosateID": -1
    },
```

```
    {
      "Benamning": {
        "sv": "V\u00e4stsahara",
        "en": "Western Sahara"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101041",
      "Kod": "EH",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c5land",
        "en": "\u00c5land Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101042",
      "Kod": "AX",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "San Marino",
        "en": "San Marino"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101090",
      "Kod": "SM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vanuatu",
        "en": "Vanuatu"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101130",
      "Kod": "VU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Europeiska unionen",
```

```
        "en": "European Union"
      },
      "Beskrivning": {
        "sv": "Anv\u00e4nds f\u00f6r European Universities Alliances och andra EU-initierade verksamhet
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "153940",
      "Kod": "EU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Maldiverna",
        "en": "Maldives"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "155075",
      "Kod": "MV",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Brittiska Jungfru\u00f6arna",
        "en": "British Virgin Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "162230",
      "Kod": "VG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Saint Vincent och Grenadinerna",
        "en": "Saint Vincent and the Grenadines"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "164277",
      "Kod": "VC",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Israel",
        "en": "Israel"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "77",
      "Kod": "IL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Indien",
        "en": "India"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "78",
      "Kod": "IN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Irak",
        "en": "Iraq"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "79",
      "Kod": "IQ",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Iran",
        "en": "Iran"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "80",
      "Kod": "IR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Island",
        "en": "Iceland"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "81",
      "Kod": "IS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Italien",
        "en": "Italy"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "82",
      "Kod": "IT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jamaica",
        "en": "Jamaica"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "83",
      "Kod": "JM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jordanien",
        "en": "Jordan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "84",
      "Kod": "JO",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Japan",
        "en": "Japan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "85",
      "Kod": "JP",
```

```
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kenya",
        "en": "Kenya"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "86",
      "Kod": "KE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kirgizistan",
        "en": "Kyrgyzstan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "87",
      "Kod": "KG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vatikanstaten",
        "en": "Vatican City State"
      },
      "Beskrivning": {
        "sv": "Heliga stolen/The Holy See"
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "176",
      "Kod": "VA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Venezuela",
        "en": "Venezuela"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "177",
      "Kod": "VE",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Vietnam",
        "en": "Viet Nam"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "178",
      "Kod": "VN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Samoa",
        "en": "Samoa"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "179",
      "Kod": "WS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Cook\u00f6arna",
        "en": "Cook Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101017",
      "Kod": "CK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Djibouti",
        "en": "Djibouti"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101018",
      "Kod": "DJ",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Dominica",
        "en": "Dominica"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101019",
      "Kod": "DM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Falklands\u00f6arna",
        "en": "Falkland Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101020",
      "Kod": "FK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Franska Guyana",
        "en": "French Guiana"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101021",
      "Kod": "GF",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Franska Polynesien",
        "en": "French Polynesia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101022",
      "Kod": "PF",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Guam",
        "en": "Guam"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101023",
      "Kod": "GU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jugoslavien",
        "en": "Yugoslavia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2003-02-04",
        "Startdatum": "1918-12-01"
      },
      "ID": "101024",
      "Kod": "YU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Komorerna",
        "en": "Comoros"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101025",
      "Kod": "KM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kosovo",
        "en": "Kosovo"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101026",
      "Kod": "XK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Marshall\u00f6arna",
        "en": "Marshall Islands"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101027",
      "Kod": "MH",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Grekland",
        "en": "Greece"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "66",
      "Kod": "GR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Guatemala",
        "en": "Guatemala"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "67",
      "Kod": "GT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Guinea-Bissau",
        "en": "Guinea-Bissau"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "68",
      "Kod": "GW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Guyana",
        "en": "Guyana"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "69",
      "Kod": "GY",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Hongkong",
        "en": "Hong Kong"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "70",
      "Kod": "HK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Honduras",
        "en": "Honduras"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "71",
      "Kod": "HN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kroatien",
        "en": "Croatia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "72",
      "Kod": "HR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Haiti",
        "en": "Haiti"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "73",
      "Kod": "HT",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Ungern",
        "en": "Hungary"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "74",
      "Kod": "HU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Indonesien",
        "en": "Indonesia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "75",
      "Kod": "ID",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Irland",
        "en": "Ireland"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "76",
      "Kod": "IE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jemen",
        "en": "Yemen"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "180",
      "Kod": "YE",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Sydafrika",
        "en": "South Africa"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "181",
      "Kod": "ZA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Zambia",
        "en": "Zambia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "182",
      "Kod": "ZM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Zimbabwe",
        "en": "Zimbabwe"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "183",
      "Kod": "ZW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Amerikanska Jungfru\u00f6rana",
        "en": "U.S. Virgin Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101010",
      "Kod": "VI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Amerikanska Samoa",
        "en": "American Samoa"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101011",
      "Kod": "AS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Andorra",
        "en": "Andorra"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101012",
      "Kod": "AD",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Antigua och Barbuda",
        "en": "Antigua and Barbuda"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101013",
      "Kod": "AG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Aruba",
        "en": "Aruba"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101014",
      "Kod": "AW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bermuda",
        "en": "Bermuda"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "101015",
      "Kod": "BM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Cayman\u00f6arna",
        "en": "Cayman Islands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101016",
      "Kod": "KY",
      "LarosateID": -1
    }
  ]
}
```

20.9 undervisningstid_JSON

887a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def undervisningstid_JSON(self):
    """
    Returns a dictionary of teaching times.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningstid',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

887b ⟨*test functions* 120a⟩+≡

```
  def test_undervisningstid_JSON():
    r = ladok.undervisningstid_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Undervisningstid": [
    {
      "Benamning": {
        "sv": "Blandad undervisningstid",
        "en": "Mixed-time"
      },
      "Beskrivning": {},
      "Dolt": true,
```

```
      "Giltighetsperiod": {},
      "ID": "101051",
      "Kod": "BLA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Dagtid",
        "en": "Day-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101052",
      "Kod": "DAG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Eftermiddagstid",
        "en": "Afternoon-time"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "101053",
      "Kod": "EFT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ingen undervisningstid",
        "en": "No teaching"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-04-30"
      },
      "ID": "101054",
      "Kod": "ING",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ingen schemalagd undervisning",
        "en": "No scheduled teaching"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "164218",
      "Kod": "ISU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kv\u00e4llstid",
        "en": "Evening-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101055",
      "Kod": "KV\u00c4",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Veckoslut",
        "en": "Weekends"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101056",
      "Kod": "VSL",
      "LarosateID": -1
    }
  ]
}
```

20.10 successivfordjupning_JSON

889a ⟨*LadokSession data methods* 120b⟩+≡

```
# RETURNERAR JSON of Successive Specializations
def successivfordjupning_JSON(self):
  """
  Returns a dictionary of Successive Specializations.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/internal/grunddata/successivfordjupning',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

889b ⟨*test functions* 120a⟩+≡

```
def test_successivfordjupning_JSON():
  r = ladok.successivfordjupning_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "SuccessivFordjupning": [
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r magisterexamen",
        "en": "Second cycle, contains degree project for Master of Arts/Master of Science (60 credits)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "A1E",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2
    },
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5, har kurs/er p\u00e5 avancerad niv\u00e5 som f\u00f6rkunskapskrav",
        "en": "Second cycle, has second-cycle course/s as entry requirements"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "A1F",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2
    },
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5, har endast kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
        "en": "Second cycle, has only first-cycle course/s as entry requirements"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "A1N",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2
    },
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r masterexamen",
        "en": "Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "A2E",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2
    },
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
        "en": "Second cycle, in-depth level of the course cannot be classified"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "AXX",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, inneh\u00e5ller s\u00e4rskilt utformat examensarbete f\u00f6r h\u00f6gsk
        "en": "First cycle, contains specially designed degree project for Higher Education Diploma"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "6",
      "Kod": "G1E",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, har mindre \u00e4n 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkuns
        "en": "First cycle, has less than 60 credits in first-cycle course/s as entry requirements"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "7",
      "Kod": "G1F",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, har endast gymnasiala f\u00f6rkunskapskrav",
        "en": "First cycle, has only upper-secondary level entry requirements"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "8",
      "Kod": "G1N",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav,
        "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements, cont
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "9",
      "Kod": "G2E",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav"
        "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "10",
      "Kod": "G2F",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    },
    {
      "Benamning": {
        "sv": "Grundniv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
        "en": "First cycle, in-depth level of the course cannot be classified"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "11",
      "Kod": "GXX",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1
    }
  ]
}
```

20.11 undervisningsform_JSON

893a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def undervisningsform_JSON(self):
  """
  Returns forms of education.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/internal/grunddata/undervisningsform',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

893b ⟨*test functions* 120a⟩+≡

```
def test_undervisningsform_JSON():
  r = ladok.undervisningsform_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Undervisningsform": [
    {
      "Benamning": {
        "sv": "Distans",
        "en": "Distance learning"
      },
      "Beskrivning": {
        "sv": "Obligatoriska tr\u00e4ffar kan f\u00f6rekomma"
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "DST",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ingen undervisning",
        "en": "No teaching"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-04-30"
      },
      "ID": "4",
      "Kod": "ING",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "IT-baserad distansutbildning",
        "en": "Web-based distance learning"
      },
      "Beskrivning": {
        "sv": "Ingen platsbunden undervisning"
      },
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-04-30"
      },
      "ID": "3",
      "Kod": "ITD",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Normal",
        "en": "Normal teaching"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "NML",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "IT-baserad distans",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133253",
      "Kod": "ITD",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Undervisningsomr\u00e5det",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
```

```
        "Slutdatum": "2018-06-19"
      },
      "ID": "133252",
      "Kod": "LU",
      "LarosateID": 29
    }
  ]
}
```

20.12 LokalaPerioder_JSON

895a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def LokalaPerioder_JSON(self):
  """
  Returns local periods.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/period',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

895b ⟨*test functions* 120a⟩+≡

```
def test_LokalaPerioder_JSON():
  r = ladok.LokalaPerioder_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Period": [
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1958",
        "en": "First six months of 1958"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1958-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1958-06-30",
        "Startdatum": "1958-01-01"
      },
      "ID": "29262",
      "Kod": "1958V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1958-06-30"
    },
```

```
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1959",
        "en": "Last six months of 1959"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1959-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1959-12-31",
        "Startdatum": "1959-07-01"
      },
      "ID": "29191",
      "Kod": "1959H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1959-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1959",
        "en": "First six months of 1959"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1959-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1959-06-30",
        "Startdatum": "1959-01-01"
      },
      "ID": "29263",
      "Kod": "1959V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1959-06-30"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1960",
        "en": "Last six months of 1960"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1960-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1960-12-31",
        "Startdatum": "1960-07-01"
      },
      "ID": "29192",
      "Kod": "1960H",
      "LarosateID": 29,
```

```
      "PeriodtypID": 3,
      "TomDatum": "1960-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1960",
        "en": "First six months of 1960"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1960-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1960-06-30",
        "Startdatum": "1960-01-01"
      },
      "ID": "29264",
      "Kod": "1960V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1960-06-30"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1961",
        "en": "Last six months of 1961"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1961-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1961-12-31",
        "Startdatum": "1961-07-01"
      },
      "ID": "29193",
      "Kod": "1961H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1961-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1961",
        "en": "First six months of 1961"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1961-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1961-06-30",
        "Startdatum": "1961-01-01"
      },
```

```
      "ID": "29265",
      "Kod": "1961V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1961-06-30"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1962",
        "en": "Last six months of 1962"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1962-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1962-12-31",
        "Startdatum": "1962-07-01"
      },
      "ID": "29194",
      "Kod": "1962H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1962-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1962",
        "en": "First six months of 1962"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1962-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1962-06-30",
        "Startdatum": "1962-01-01"
      },
      "ID": "29266",
      "Kod": "1962V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1962-06-30"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1974",
        "en": "First six months of 1974"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1974-01-01",
      "Giltighetsperiod": {
```

```
        "Slutdatum": "1974-06-30",
        "Startdatum": "1974-01-01"
      },
      "ID": "29278",
      "Kod": "1974V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1974-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1975",
        "en": "Calendar year 1975"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1975-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1975-12-31",
        "Startdatum": "1975-01-01"
      },
      "ID": "29106",
      "Kod": "1975",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1975-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1975",
        "en": "Last six months of 1975"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1975-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1975-12-31",
        "Startdatum": "1975-07-01"
      },
      "ID": "29207",
      "Kod": "1975H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1975-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1975",
        "en": "First six months of 1975"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
      "FromDatum": "1975-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1975-06-30",
        "Startdatum": "1975-01-01"
      },
      "ID": "29279",
      "Kod": "1975V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1975-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1976",
        "en": "Calendar year 1976"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1976-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1976-12-31",
        "Startdatum": "1976-01-01"
      },
      "ID": "29107",
      "Kod": "1976",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1976-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1976",
        "en": "Last six months of 1976"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1976-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1976-12-31",
        "Startdatum": "1976-07-01"
      },
      "ID": "29208",
      "Kod": "1976H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1976-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1976",
```

```
        "en": "First six months of 1976"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1976-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1976-06-30",
        "Startdatum": "1976-01-01"
      },
      "ID": "29280",
      "Kod": "1976V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1976-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1977",
        "en": "Calendar year 1977"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1977-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1977-12-31",
        "Startdatum": "1977-01-01"
      },
      "ID": "29108",
      "Kod": "1977",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1977-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1977",
        "en": "Last six months of 1977"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1977-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1977-12-31",
        "Startdatum": "1977-07-01"
      },
      "ID": "29209",
      "Kod": "1977H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1977-12-31"
    },
```

```
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1983",
        "en": "First six months of 1983"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1983-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1983-06-30",
        "Startdatum": "1983-01-01"
      },
      "ID": "29287",
      "Kod": "1983V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1983-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1984",
        "en": "Calendar year 1984"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1984-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1984-12-31",
        "Startdatum": "1984-01-01"
      },
      "ID": "29115",
      "Kod": "1984",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1984-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1984",
        "en": "Last six months of 1984"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1984-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1984-12-31",
        "Startdatum": "1984-07-01"
      },
      "ID": "29216",
      "Kod": "1984H",
      "LarosateID": 29,
```

```
      "PeriodtypID": 3,
      "TomDatum": "1984-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1984",
        "en": "First six months of 1984"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1984-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1984-06-30",
        "Startdatum": "1984-01-01"
      },
      "ID": "29288",
      "Kod": "1984V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1984-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1985",
        "en": "Calendar year 1985"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1985-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1985-12-31",
        "Startdatum": "1985-01-01"
      },
      "ID": "29116",
      "Kod": "1985",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1985-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1985",
        "en": "Last six months of 1985"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1985-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1985-12-31",
        "Startdatum": "1985-07-01"
      },
```

```
      "ID": "29217",
      "Kod": "1985H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1985-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1985",
        "en": "First six months of 1985"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1985-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1985-06-30",
        "Startdatum": "1985-01-01"
      },
      "ID": "29289",
      "Kod": "1985V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1985-06-30"
    },
    {
      "Benamning": {
        "sv": "Kalender\u00e5r 1986",
        "en": "Calendar year 1986"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1986-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1986-12-31",
        "Startdatum": "1986-01-01"
      },
      "ID": "29117",
      "Kod": "1986",
      "LarosateID": 29,
      "PeriodtypID": 1,
      "TomDatum": "1986-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1986",
        "en": "Last six months of 1986"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1986-07-01",
      "Giltighetsperiod": {
```

```
        "Slutdatum": "1986-12-31",
        "Startdatum": "1986-07-01"
      },
      "ID": "29218",
      "Kod": "1986H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1986-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1992",
        "en": "First six months of 1992"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1992-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1992-06-30",
        "Startdatum": "1992-01-01"
      },
      "ID": "29296",
      "Kod": "1992V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1992-06-30"
    },
    {
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        "en": "Spring semester 2001"
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        "Startdatum": "2001-01-15"
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        "Startdatum": "2002-01-14"
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      "LarosateID": 29,
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        "Startdatum": "2003-01-14"
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      "PeriodtypID": 2,
      "TomDatum": "2003-06-06"
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        "en": "Spring semester 2004"
      },
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      "Dolt": false,
      "FromDatum": "2004-01-19",
      "Giltighetsperiod": {
        "Slutdatum": "2004-06-01",
        "Startdatum": "2004-01-19"
      },
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      "Kod": "VT2004",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2004-06-01"
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        "en": "Spring semester 2005"
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      "Giltighetsperiod": {
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        "Startdatum": "2005-01-17"
      },
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      "Kod": "VT2005",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2005-06-04"
    },
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        "en": "Spring semester 2006"
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      "Beskrivning": {},
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        "Startdatum": "2006-01-18"
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      "Kod": "VT2006",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2006-05-30"
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        "en": "Spring semester 2007"
      },
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        "Startdatum": "2007-01-17"
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        "en": "Spring semester 2008"
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      "Giltighetsperiod": {
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        "Startdatum": "2008-01-14"
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      "LarosateID": 29,
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        "en": "Spring semester 2009"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Giltighetsperiod": {
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        "Startdatum": "2009-01-12"
      },
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      "Kod": "VT2009",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2009-05-27"
    },
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        "en": "Spring semester 2029"
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      "PeriodtypID": 2,
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        "Startdatum": "2030-01-21"
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      "PeriodtypID": 2,
      "TomDatum": "2030-06-09"
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        "en": "Spring semester 2031"
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      "Dolt": false,
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      "Giltighetsperiod": {
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        "Startdatum": "2031-01-20"
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      "Kod": "VT2031",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2031-06-08"
    }
  ]
}
```


20.13 nivainomstudieordning_JSON

1024a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def nivainomstudieordning_JSON(self):
    """
    Returns education levels.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/nivainomstudieordning',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1024b ⟨*test functions* 120a⟩+≡

```
  def test_nivainomstudieordning_JSON():
    r = ladok.nivainomstudieordning_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
1 {
```

```
  "NivaInomStudieordning": [
    {
      "Benamning": {
        "sv": "Grundniv\u00e5",
        "en": "First cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
      "ID": "1",
      "Kod": "1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Avancerad niv\u00e5",
        "en": "Second cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
      "ID": "2",
      "Kod": "2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Forskarniv\u00e5",
        "en": "Third cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
      "ID": "3",
      "Kod": "3",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Forskarutbildning",
        "en": "Postgraduate level"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
```

```
          "Slutdatum": "2007-06-30",
          "Startdatum": "1977-07-01"
        },
        "ID": "5",
        "Kod": "F",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Grundutbildning",
          "en": "Undergraduate level"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Slutdatum": "2007-06-30",
          "Startdatum": "1977-07-01"
        },
        "ID": "4",
        "Kod": "G",
        "LarosateID": -1
      }
    ]
}
```

20.14 amnesgrupp_JSON

1026a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def amnesgrupp_JSON(self):
    """
    Returns subject area groups.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/amnesgrupp',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1026b ⟨*test functions* 120a⟩+≡

```
  def test_amnesgrupp_JSON():
    r = ladok.amnesgrupp_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Amnesgrupp": [
    {
      "Benamning": {
```

```
        "sv": "Arkivvetenskap",
        "en": "Archival Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "10",
      "Kod": "AV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt inom beteendevetenskap",
        "en": "Other Subjects within Behavioural Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "11",
      "Kod": "BE9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Biologi",
        "en": "Biology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "12",
      "Kod": "BI1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bosniska/kroatiska/serbiska",
        "en": "Bosnian/Croatian/Serbian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "13",
      "Kod": "BK1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Biomedicinsk laboratorievetenskap",
        "en": "Biomedical Laboratory Science"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "14",
      "Kod": "BL1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Berg- och mineralteknik",
        "en": "Mining and Mineral Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "15",
      "Kod": "BM1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bioteknik",
        "en": "Biotechnology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "16",
      "Kod": "BT1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bulgariska",
        "en": "Bulgarian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "17",
      "Kod": "BU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Barn- och ungdomsstudier",
        "en": "Child and Youth Education and Care"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "18",
      "Kod": "BU2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ekonomisk historia",
        "en": "Economic History"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "28",
      "Kod": "EH1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt inom ekonomi och administration",
        "en": "Other Subjects within Economy and Administration"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "29",
      "Kod": "EK9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Elektronik",
        "en": "Electronics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "30",
      "Kod": "EL1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Engelska",
        "en": "English"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "31",
      "Kod": "EN1",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Energiteknik",
        "en": "Energy Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "32",
      "Kod": "EN2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Estniska",
        "en": "Estonian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "33",
      "Kod": "ES1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Estetik",
        "en": "Aesthetics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "34",
      "Kod": "ES2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Etnologi",
        "en": "Ethnology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "35",
      "Kod": "ET1",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
          "sv": "Elektroteknik",
          "en": "Electrical Engineering"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "36",
        "Kod": "ET2",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Film",
          "en": "Film Production"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "46",
        "Kod": "FM1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Fysisk planering",
          "en": "Spatial Planning"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "47",
        "Kod": "FP1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Franska",
          "en": "French"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "48",
        "Kod": "FR1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Farkostteknik",
          "en": "Vehicle Engineering"
        },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "49",
      "Kod": "FT1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Freds- och utvecklingsstudier",
        "en": "Peace and Development Research"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "50",
      "Kod": "FU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Filmvetenskap",
        "en": "Film Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "51",
      "Kod": "FV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Fiske och vattenbruk",
        "en": "Fishery and Aquaculture"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "52",
      "Kod": "FV2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Friskv\u00e5rd",
        "en": "Physical Welfare"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "53",
      "Kod": "FV3",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Fysik",
        "en": "Physics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "54",
      "Kod": "FY1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "H\u00e4lso- och sjukv\u00e5rdsutveckling",
        "en": "Health and Society"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "64",
      "Kod": "HS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Handikappvetenskap",
        "en": "Disability Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "65",
      "Kod": "HV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Idrott/idrottsvetenskap",
        "en": "Sport Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "66",
      "Kod": "ID1",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Industriell ekonomi och organisation",
        "en": "Industrial Engineering and Management"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "67",
      "Kod": "IE1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Informatik/data- och systemvetenskap",
        "en": "Informatics/Computer and Systems Sciences"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "68",
      "Kod": "IF1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Id\u00e9- och l\u00e4rdomshistoria/id\u00e9historia",
        "en": "History of Science and Ideas/History of Ideas"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "69",
      "Kod": "IL1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Indonesiska",
        "en": "Indonesian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "70",
      "Kod": "IN1",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
          "sv": "Indologi och sanskrit",
          "en": "Indology and Sanskrit"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "71",
        "Kod": "IS1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Italienska",
          "en": "Italian"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "72",
        "Kod": "IT1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "\u00d6vrigt inom konst",
          "en": "Other Subjects within Arts"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "82",
        "Kod": "KO9",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Kriminologi",
          "en": "General Criminology"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "83",
        "Kod": "KR1",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Kultur- och samh\u00e4llsgeografi",
          "en": "Cultural and Social Geography"
        },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "84",
      "Kod": "KS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kemiteknik",
        "en": "Chemical Engineering"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "85",
      "Kod": "KT1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kurdiska",
        "en": "Kurdish"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "86",
      "Kod": "KU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kulturv\u00e5rd",
        "en": "Conservation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "87",
      "Kod": "KU2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Konstvetenskap",
        "en": "History and Theory of Art"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "88",
      "Kod": "KV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kulturvetenskap",
        "en": "Cultural Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "89",
      "Kod": "KV2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Krigsvetenskap",
        "en": "War Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "90",
      "Kod": "KV3",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Lantbruksvetenskap",
        "en": "Agricultural Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "100",
      "Kod": "LV2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Matematik",
        "en": "Mathematics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "101",
      "Kod": "MA1",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Materialteknik",
        "en": "Materials Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "102",
      "Kod": "MA2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medicinsk biologi",
        "en": "Medical Biology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "103",
      "Kod": "MB1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Musikdramatisk scenframst\u00e4llning och gestaltning",
        "en": "Operatic Stagecraft and Characterization"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "104",
      "Kod": "MC1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medicin",
        "en": "Medicine"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "105",
      "Kod": "ME1",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "\u00d6vrigt inom medicin",
        "en": "Other Subjects within Medicine"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "106",
      "Kod": "ME9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "M\u00e5ltids- och hush\u00e5llskunskap",
        "en": "Culinary Arts and Home Economics Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "107",
      "Kod": "MH1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medie- och kommunikationsvetenskap",
        "en": "Media and Communication Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "108",
      "Kod": "MK1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nationalekonomi",
        "en": "Economics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "118",
      "Kod": "NA1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt inom naturvetenskap",
        "en": "Other Subjects within Natural Science"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "119",
      "Kod": "NA9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nederl\u00e4ndska",
        "en": "Dutch"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "120",
      "Kod": "NE1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nygrekiska",
        "en": "Modern Greek"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "121",
      "Kod": "NG1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nutrition",
        "en": "Nutrition"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "122",
      "Kod": "NU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Odontologi",
        "en": "Odontology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "123",
      "Kod": "OD1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Omv\u00e5rdnad/omv\u00e5rdnadsvetenskap",
        "en": "Nursing Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "124",
      "Kod": "OM1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt inom omv\u00e5rdnad",
        "en": "Other Subjects within Nursing Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "125",
      "Kod": "OM9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Pedagogik",
        "en": "Education"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "126",
      "Kod": "PE1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ryska",
        "en": "Russian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "136",
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        "en": "Sami Languages"
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        "en": "Other Subjects within Social Science"
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        "en": "Student and Vocational Counselling"
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        "en": "Sign Language"
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        "en": "Other Subjects within Performing Arts"
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        "en": "Other Interdisciplinary Studies"
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        "en": "Textile Technology"
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        "en": "German"
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        "en": "Administration and Management"
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        "en": "Ancient History"
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        "en": "General Linguistics"
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        "en": "Arabic"
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        "en": "Architecture"
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        "en": "Aramaic/Syriac"
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        "en": "Automation Technology"
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        "en": "Library and Information Science"
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        "en": "Building Technology"
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        "en": "Circus"
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        "en": "Danish"
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        "en": "Design"
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        "en": "Veterinary Nursing"
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        "en": "Computer Technology"
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        "en": "Pharmacy"
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        "en": "Business Administration"
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        "en": "Creative Writing"
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        "en": "Public Health"
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        "en": "Finnish"
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        "en": "Philosophy"
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        "en": "Pharmacology"
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        "en": "Fine Art"
      },
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        "en": "Subjects with Multilingual Focus"
      },
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        "en": "Geographic Information Technology and Surveying"
      },
      "Beskrivning": {},
      "Dolt": false,
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        "en": "Earth Science and Physical Geography"
      },
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        "en": "Animal Science"
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        "en": "Hebrew"
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          "en": "History"
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          "en": "Japanese"
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          "en": "Other Subjects within Journalism, Communication and Information"
        },
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      {
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          "en": "Journalism"
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        "en": "Law and Legal Studies"
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        "en": "Chemistry"
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        "en": "Craft"
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        "en": "Chinese"
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        "en": "Korean"
      },
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        "en": "Choreography"
      },
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        "en": "Landscape Architecture"
      },
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    {
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        "en": "Latvian"
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      "LarosateID": -1
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        "en": "Aviation"
      },
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      "Dolt": false,
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        "en": "Lithuanian"
      },
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      "ID": "95",
      "Kod": "LI1",
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    {
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        "sv": "L\u00e4nderkunskap/l\u00e4nderstudier",
        "en": "Country Knowledge/Country Studies"
      },
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        "en": "Food Science"
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      "ID": "97",
      "Kod": "LM1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ledarskap, organisation och styrning",
        "en": "Leadership, Organisation and Management"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "98",
      "Kod": "LO1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Litteraturvetenskap",
        "en": "Comparative Literature"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "99",
      "Kod": "LV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Milj\u00f6v\u00e5rd och milj\u00f6skydd",
        "en": "Environmental Care and Environmental Protection"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "109",
      "Kod": "MM1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medieproduktion",
        "en": "Media Production"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "110",
      "Kod": "MP1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "M\u00e4nskliga r\u00e4ttigheter",
        "en": "Human Rights"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "111",
      "Kod": "MR1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Matematisk statistik",
        "en": "Mathematical Statistics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "112",
      "Kod": "MS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Maskinteknik",
        "en": "Mechanical Engineering"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "113",
      "Kod": "MT1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medicinska tekniker",
        "en": "Medical Technologies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "114",
      "Kod": "MT2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Musik",
        "en": "Music"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "115",
      "Kod": "MU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Milj\u00f6vetenskap",
        "en": "Environmental Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "116",
      "Kod": "MV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Musikvetenskap",
        "en": "Musicology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "117",
      "Kod": "MV2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Polska",
        "en": "Polish"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "127",
      "Kod": "PO1",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Persiska",
        "en": "Persian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "128",
      "Kod": "PR1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Psykologi",
        "en": "Psychology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "129",
      "Kod": "PS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Portugisiska",
        "en": "Portuguese"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "130",
      "Kod": "PU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Psykoterapi",
        "en": "Psychotherapy"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131",
      "Kod": "PY1",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Regi",
        "en": "Stage Direction"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "132",
      "Kod": "RE1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Retorik",
        "en": "Rhetoric"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "133",
      "Kod": "RO1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Rum\u00e4nska",
        "en": "Romanian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "134",
      "Kod": "RU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Religionsvetenskap",
        "en": "Religious Studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "135",
      "Kod": "RV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sociologi",
        "en": "Sociology"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "145",
      "Kod": "SO1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Socialantropologi",
        "en": "Social Anthropology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "146",
      "Kod": "SO2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Spanska",
        "en": "Spanish"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "147",
      "Kod": "SP1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vriga spr\u00e5k",
        "en": "Other Languages"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "148",
      "Kod": "SP2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Svenska som andraspr\u00e5k",
        "en": "Swedish as a Second Language"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "149",
      "Kod": "SS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Socialt arbete och social omsorg",
        "en": "Social Work and Social Welfare"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "150",
      "Kod": "SS2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Statistik",
        "en": "Statistics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "151",
      "Kod": "ST1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Statsvetenskap",
        "en": "Political Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "152",
      "Kod": "ST2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Svenska/nordiska spr\u00e5k",
        "en": "Swedish/Scandinavian Languages"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "153",
      "Kod": "SV1",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Tjeckiska",
        "en": "Czech"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "163",
      "Kod": "TJ1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Teologi",
        "en": "Theology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "164",
      "Kod": "TL1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tandteknik och oral h\u00e4lsa",
        "en": "Dental Technology and Oral Health"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "165",
      "Kod": "TO1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vers\u00e4ttning och tolkning",
        "en": "Translation and Interpretation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "166",
      "Kod": "TO2",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "\u00d6vrigt inom transportsektorn",
        "en": "Other Subjects within Transportation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "167",
      "Kod": "TP9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Terapi, rehabilitering och kostbehandling",
        "en": "Therapy, Rehabilitation and Dietary Treatment"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "168",
      "Kod": "TR1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Teknik i samh\u00e4llsperspektiv",
        "en": "Technology from a Social Perspective"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "169",
      "Kod": "TS1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tr\u00e4fysik och tr\u00e4teknologi",
        "en": "Wood Physics and Wood Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "170",
      "Kod": "TT1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Turism- och fritidsvetenskap",
        "en": "Tourism and Recreation Studies"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "171",
      "Kod": "TU1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ungerska",
        "en": "Hungarian"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "176",
      "Kod": "UN1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Utbildningsvetenskap/didaktik allm\u00e4nt",
        "en": "Educational Sciences/General Didactics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "177",
      "Kod": "UV1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Utbildningsvetenskap teoretiska \u00e4mnen",
        "en": "Educational Sciences/Theoretical Subjects"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "178",
      "Kod": "UV2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Utbildningsvetenskap praktisk-estetiska \u00e4mnen",
        "en": "Educational Sciences/Practical Subjects"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "179",
      "Kod": "UV3",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Veterin\u00e4rmedicin",
        "en": "Veterinary Medicine"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "180",
      "Kod": "VE1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4g- och vattenbyggnad",
        "en": "Civil Engineering"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "181",
      "Kod": "VV1",
      "LarosateID": -1
    }
  ]
}
```

20.15 studietakt_JSON

1069a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def studietakt_JSON(self):
  """
  Returns study paces.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/studietakt',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

1069b ⟨*test functions* 120a⟩+≡

```
def test_studietakt_JSON():
  r = ladok.studietakt_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Studietakt": [
    {
      "Benamning": {
        "sv": "Tiondelsfart",
        "en": "One-tenth-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "8",
      "Kod": "10",
      "LarosateID": -1,
      "Takt": 10
    },
    {
      "Benamning": {
        "sv": "Helfart",
        "en": "Full-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "100",
      "LarosateID": -1,
      "Takt": 100
    },
    {
      "Benamning": {
        "sv": "\u00c5ttondelsfart",
        "en": "One-eight-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "128190",
      "Kod": "12",
      "LarosateID": -1,
      "Takt": 12
    },
    {
      "Benamning": {
        "sv": "Sj\u00e4ttedelsfart",
        "en": "One-sixth-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "7",
      "Kod": "17",
      "LarosateID": -1,
      "Takt": 17
    },
    {
      "Benamning": {
        "sv": "Kvartsfart",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "6",
      "Kod": "25",
      "LarosateID": -1,
      "Takt": 25
    },
    {
      "Benamning": {
        "sv": "Tredjedelsfart",
        "en": "One-third-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "5",
      "Kod": "33",
      "LarosateID": -1,
      "Takt": 33
    },
    {
      "Benamning": {
        "sv": "Halvfart",
        "en": "Half-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "50",
      "LarosateID": -1,
      "Takt": 50
    },
    {
      "Benamning": {
        "sv": "Tv\u00e5tredjedelsfart",
        "en": "Two-thirds-time"
      },
      "Beskrivning": {
        "sv": "\u00c4ndras till \"Tv\u00e5tredjedelsfart\" efter fullbordad produktionss\u00e4ttning."
```

```
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "67",
      "LarosateID": -1,
      "Takt": 67
    },
    {
      "Benamning": {
        "sv": "Trekvartsfart",
        "en": "Three-quarters-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "75",
      "LarosateID": -1,
      "Takt": 75
    },
    {
      "Benamning": {
        "sv": "Noll",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133268",
      "Kod": "0",
      "LarosateID": 29,
      "Takt": 0
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133270",
      "Kod": "1",
      "LarosateID": 29,
      "Takt": 1
    },
```

```
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133282",
      "Kod": "11",
      "LarosateID": 29,
      "Takt": 11
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133281",
      "Kod": "13",
      "LarosateID": 29,
      "Takt": 13
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133278",
      "Kod": "14",
      "LarosateID": 29,
      "Takt": 14
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133283",
      "Kod": "15",
      "LarosateID": 29,
      "Takt": 15
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133280",
      "Kod": "16",
      "LarosateID": 29,
      "Takt": 16
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133289",
      "Kod": "18",
      "LarosateID": 29,
      "Takt": 18
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133279",
      "Kod": "19",
```

```
      "LarosateID": 29,
      "Takt": 19
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133271",
      "Kod": "2",
      "LarosateID": 29,
      "Takt": 2
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133285",
      "Kod": "20",
      "LarosateID": 29,
      "Takt": 20
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133287",
      "Kod": "21",
      "LarosateID": 29,
      "Takt": 21
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
```

```
          "en": "One-quarter-time"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Slutdatum": "2018-06-19"
        },
        "ID": "133290",
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      "Takt": 81
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        "en": "Almost full-time"
      },
      "Beskrivning": {},
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      "Takt": 83
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      "Takt": 84
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133343",
      "Kod": "85",
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      "Takt": 85
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        "en": "Almost full-time"
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        "en": "Almost full-time"
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      "Dolt": false,
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      "Kod": "9",
      "LarosateID": 29,
      "Takt": 9
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        "sv": "N\u00e4stan heltid",
        "en": "Almost full-time"
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      "Takt": 90
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        "en": "Almost full-time"
      },
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      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
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      "LarosateID": 29,
      "Takt": 91
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    {
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        "sv": "N\u00e4stan heltid",
        "en": "Almost full-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
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      "Kod": "92",
      "LarosateID": 29,
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        "en": "Almost full-time"
      },
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      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
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      "Kod": "93",
      "LarosateID": 29,
      "Takt": 93
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      "Takt": 94
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      "Kod": "95",
      "LarosateID": 29,
      "Takt": 95
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        "en": "Almost full-time"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {
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      "ID": "133355",
      "Kod": "96",
      "LarosateID": 29,
      "Takt": 96
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    {
      "Benamning": {
        "sv": "N\u00e4stan heltid",
        "en": "Almost full-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
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      "Kod": "97",
      "LarosateID": 29,
      "Takt": 97
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    {
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        "en": "Almost full-time"
      },
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```

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      "Takt": 98
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      "Beskrivning": {},
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      },
      "ID": "133359",
      "Kod": "99",
      "LarosateID": 29,
      "Takt": 99
    }
  ]
}
```


20.16 finansieringsform_JSON

1099a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def finansieringsform_JSON(self):
    """
    Returns forms of financing.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/finansieringsform',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1099b ⟨*test functions* 120a⟩+≡

```
  def test_finansieringsform_JSON():
    r = ladok.finansieringsform_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
```

```
  "Finansieringsform": [
    {
      "Benamning": {
        "sv": "Aspirantutbildning",
        "en": "Bridging programme for graduates with foreign qualifications"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-06-30"
      },
      "ID": "102078",
      "Kod": "A",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bas\u00e5rsutbildning",
        "en": "Foundation year programme"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "102085",
      "Kod": "B",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Distanskonsortiekurs",
        "en": "Distance consortium course"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-06-30"
      },
      "ID": "102080",
      "Kod": "D",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Fortbildningskurs f\u00f6r skolpersonal",
        "en": "Continuing professional development course for teachers"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-06-30"
      },
```

```
      "ID": "102076",
      "Kod": "F",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Flexibla v\u00e4gar in i l\u00e4raryrket",
        "en": "Flexible roads into the teaching profession"
      },
      "Beskrivning": {
        "sv": "Regeringsuppdrag \u00e5t Ume\u00e5 universitet att leda ett arbete med att ta fram\ninsa
      },
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "149937",
      "Kod": "FVI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kombinationsutbildning",
        "en": "Combined education"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-06-30"
      },
      "ID": "102077",
      "Kod": "KB",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Finansiering via KK-stiftelsen",
        "en": "Funded by the Knowledge Foundation"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "136090",
      "Kod": "KK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kompletterande pedagogisk utbildning till grundl\u00e4rar- eller \u00e4mnesl\u00e4rarexa
        "en": "Supplementary pedagogical education aiming to a degree in primary education or a degree
      },
      "Beskrivning": {
        "sv": "SFS 2021:1336 F\u00f6rs\u00f6ksverksamhet med kompletterande pedagogisk utbildning som l
```

```
      },
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      "Giltighetsperiod": {},
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      "Kod": "KPL",
      "LarosateID": -1
    },
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      "Benamning": {
        "sv": "Livsl\u00e5ngt l\u00e4rande",
        "en": "Life long learning"
      },
      "Beskrivning": {
        "sv": "S\u00e4rskild satsning fr.o.m. 2021 enligt l\u00e4ros\u00e4tenas regleringsbrev"
      },
      "Dolt": false,
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        "en": "Adult education in science and applied science"
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      "Kod": "NT",
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    {
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        "en": "Net university course"
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      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
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      "ID": "102079",
      "Kod": "NU",
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        "en": "Regular government funding"
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      "Kod": "ORD",
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        "en": "Summer course"
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      "Dolt": true,
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    {
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        "sv": "S\u00e4rskild utbildningssatsning 2020",
        "en": "Special effort on education 2020"
      },
      "Beskrivning": {
        "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser och beh\u00f6righetsgivande utbildning 2020
      },
      "Dolt": true,
      "Giltighetsperiod": {
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        "Startdatum": "2020-01-01"
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      "ID": "150163",
      "Kod": "S20",
      "LarosateID": -1
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    {
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        "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021",
        "en": "Special effort on summer courses 2021"
      },
      "Beskrivning": {
        "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021 (Regeringens proposition 2020/21:99)"
      },
      "Dolt": true,
      "Giltighetsperiod": {
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      "ID": "151754",
      "Kod": "S21",
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        "en": "Sommer courses within the education area aiming to qualifcation and competence developme
      },
      "Beskrivning": {
        "sv": "Regeringsbeslut U2019/04118/UH. Ers\u00e4tter uppdraget att anordna fler relevanta somma
      },
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      "Kod": "SSL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vetenskap utan gr\u00e4nser",
        "en": "Science without borders"
      },
      "Beskrivning": {
        "sv": "Se regleringsbrev"
      },
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "102083",
      "Kod": "SWB",
      "LarosateID": -1
    },
    {
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        "en": "Special education for teachers in vocational subjects"
      },
      "Beskrivning": {
        "sv": "SFS 2005:568 S\u00e4rskild utbildning av l\u00e4rare i yrkes\u00e4mnen"
      },
      "Dolt": true,
      "Giltighetsperiod": {
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        "Startdatum": "2005-08-01"
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      "ID": "102084",
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      "LarosateID": -1
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        "sv": "Uppdragsutbildning",
        "en": "Contract education"
      },
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        "sv": "Anv\u00e4nds i Ladok f\u00f6r all uppdragsutbildning som inte s\u00e4rskiljs genom annan
      },
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      "Giltighetsperiod": {},
      "ID": "102042",
      "Kod": "U",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kompletterande utbildning f\u00f6r personer med utl\u00e4ndsk examen",
        "en": "Complementary education for persons with foreign degrees"
      },
      "Beskrivning": {
        "sv": "SFS 2008:1101 H\u00f6gskoleutbildning som kompletterar avslutad utl\u00e4ndsk utbildning
      },
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      "Giltighetsperiod": {
        "Startdatum": "2009-01-15"
      },
      "ID": "106370",
      "Kod": "UKU",
      "LarosateID": -1
    },
    {
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        "sv": "Utlandsutbildade l\u00e4rares vidareutbildning",
        "en": "Complementary education for foreign teachers"
      },
      "Beskrivning": {
        "sv": "Best\u00e4lld utbildning fr\u00e5n Stockholms universitet (tidigare L\u00e4rarh\u00f6gsk
      },
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      "ID": "102081",
      "Kod": "ULV",
      "LarosateID": -1
    },
    {
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        "sv": "Uppdragsutbildning polis",
        "en": "Contract education - Police education"
      },
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      "Giltighetsperiod": {},
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      "Kod": "UPU",
      "LarosateID": -1
    },
    {
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        "en": "Complementary education for unqualified teachers"
      },
      "Beskrivning": {
        "sv": "SFS 2011:689"
      },
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      "Giltighetsperiod": {},
      "ID": "102082",
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        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131704",
      "Kod": "ALU",
      "LarosateID": 29
    },
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        "sv": "Best\u00e4lld utbildning f\u00f6r externa doktorander (ej HST-HPR)",
        "en": "Contracted course for external doctoral students (ej HST-HPR)"
      },
      "Beskrivning": {},
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        "Startdatum": "2020-08-01"
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      "Kod": "BDR",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "zzzz Best\u00e4lld utbildning f\u00f6r externa doktorander",
        "en": "zzzz Contracted course for external doctoral students"
      },
      "Beskrivning": {
        "sv": "BDR ers\u00e4tter denna"
      },
      "Dolt": true,
      "Giltighetsperiod": {
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        "Startdatum": "2020-08-01"
      },
      "ID": "150875",
      "Kod": "BESTUTBDOKT",
      "LarosateID": 29
    },
    {
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        "sv": "Beijing Jiaotong Technical University",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131708",
      "Kod": "BJT",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Tekniskt bas\u00e5r NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131712",
      "Kod": "BNT",
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      "LarosateID": 29
    },
    {
      "Benamning": {
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        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131703",
      "Kod": "CTH",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "EIT-InnoEnergy (vissa p\u00e5 distans \u00e5r 2, ej KTH)",
        "en": "EIT-InnoEnergy"
      },
      "Beskrivning": {
        "sv": "MJ2504 \u00e4r en obligatorisk kurs f\u00f6r \u00e5r 2 p\u00e5 programmet TMESM, student
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2017-08-01"
      },
      "ID": "148345",
      "Kod": "EIS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "EJ HST/HPR",
        "en": "EJ HST/HPR"
      },
      "Beskrivning": {
        "sv": "F\u00f6r \u00e5taganden och kurstillf\u00e4llen som ej ska generera HST/HPR, tex f\u00f6
      },
      "Dolt": false,
      "Giltighetsperiod": {
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      },
      "ID": "159831",
      "Kod": "EJH",
      "LarosateID": 29
    },
    {
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      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131762",
      "Kod": "UVU",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Visby, fortbildning och vidareutbildning",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131768",
      "Kod": "UVV",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Visby, resultat i GOTDOK (ej HST-HPR)",
        "en": "- No translation available -"
      },
```

```
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131763",
      "Kod": "UVX",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Kurs ers\u00e4tter en avvecklad kurs (EJ HST)",
        "en": "Kurs ers\u00e4tter en avvecklad kurs (EJ HST)"
      },
      "Beskrivning": {
        "sv": "Fin.form anv\u00e4nds f\u00f6r den ers\u00e4ttande kursens kurstillf\u00e4llen, d\u00e4r
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2021-07-01"
      },
      "ID": "152681",
      "Kod": "XER",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Examensarbete frist\u00e5endekurs",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131766",
      "Kod": "XEX",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Ex.arb 12 p forts\u00e4tter till 20 p",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131764",
      "Kod": "XII",
      "LarosateID": 29
    },
```

```
    {
      "Benamning": {
        "sv": "\u00d6verbryggande kurs (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131765",
      "Kod": "\u00d6B",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "\u00d6verbryggande n\u00e4tkurs (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131769",
      "Kod": "\u00d6N\u00c4",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "F\u00f6rberedandekurs SFINX stud.(ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131770",
      "Kod": "\u00d6SF",
      "LarosateID": 29
    }
  ]
}
```


20.17 utbildningsomrade_JSON

1126 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def utbildningsomrade_JSON(self):
    """
    Returns subject areas.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/utbildningsomrade',
```

```
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1127 ⟨*test functions* 120a⟩+≡

```
def test_utbildningsomrade_JSON():
  r = ladok.utbildningsomrade_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Utbildningsomrade": [
    {
      "Benamning": {
        "sv": "Farmaceutiska omr\u00e5det",
        "en": "Pharmacy"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "3",
      "Kod": "FA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Dansomr\u00e5det",
        "en": "Dance"
      },
      "Beskrivning": {
        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
      },
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1994-07-01"
      },
      "ID": "1",
      "Kod": "DA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Humanistiska omr\u00e5det",
        "en": "Humanities"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
```

```
        "Startdatum": "1993-07-01"
      },
      "ID": "4",
      "Kod": "HU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Idrottsliga omr\u00e5det",
        "en": "Sports"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "5",
      "Kod": "ID",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Juridiska omr\u00e5det",
        "en": "Law"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "6",
      "Kod": "JU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Konstomr\u00e5det",
        "en": "Fine arts"
      },
      "Beskrivning": {
        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
      },
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1994-07-01"
      },
      "ID": "7",
      "Kod": "KO",
      "LarosateID": -1
    },
    {
```

```
      "Benamning": {
        "sv": "Undervisningsomr\u00e5det",
        "en": "Education"
      },
      "Beskrivning": {
        "sv": "Avser utbildning inom det allm\u00e4nna utbildningsomr\u00e5det och den utbildningsveten
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "9",
      "Kod": "LU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Medicinska omr\u00e5det",
        "en": "Medicine"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "10",
      "Kod": "ME",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mediaomr\u00e5det",
        "en": "Media"
      },
      "Beskrivning": {
        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1994-07-01"
      },
      "ID": "11",
      "Kod": "MM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Musikomr\u00e5det",
        "en": "Music"
      },
      "Beskrivning": {
```

```
          "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
        },
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "1994-07-01"
        },
        "ID": "12",
        "Kod": "MU",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Naturvetenskapliga omr\u00e5det",
          "en": "Natural sciences"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "1993-07-01"
        },
        "ID": "13",
        "Kod": "NA",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Odontologiska omr\u00e5det",
          "en": "Dentistry"
        },
        "Beskrivning": {},
        "Dolt": true,
        "Giltighetsperiod": {
          "Startdatum": "1993-07-01"
        },
        "ID": "14",
        "Kod": "OD",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "Operaomr\u00e5det",
          "en": "Opera"
        },
        "Beskrivning": {
          "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
        },
        "Dolt": true,
        "Giltighetsperiod": {
          "Startdatum": "1994-07-01"
        },
        "ID": "15",
```

```
      "Kod": "OP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Samh\u00e4llsvetenskapliga omr\u00e5det",
        "en": "Social sciences"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "16",
      "Kod": "SA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Teateromr\u00e5det",
        "en": "Theatre"
      },
      "Beskrivning": {
        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
      },
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1994-07-01"
      },
      "ID": "18",
      "Kod": "TA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tekniska omr\u00e5det",
        "en": "Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "19",
      "Kod": "TE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Teologiska omr\u00e5det",
        "en": "Theology"
```

```
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "20",
      "Kod": "TL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Verksamhetsf\u00f6rlagd utbildning",
        "en": "Placement"
      },
      "Beskrivning": {
        "sv": "Avser verksamhetsf\u00f6rlagd utbildning inom l\u00e4rar- och f\u00f6rskoll\u00e4rarutbi
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2013-01-01"
      },
      "ID": "25",
      "Kod": "VU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e5rdomr\u00e5det",
        "en": "Health care"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "22",
      "Kod": "V\u00c5",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Information saknas",
        "en": "Information missing"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "23",
      "Kod": "XX",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "\u00d6vriga omr\u00e5den",
        "en": "Other fields"
      },
      "Beskrivning": {
        "sv": "Avser journalist- och bibliotekarieutbildningar samt praktiska och estetiska kurser inom
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "24",
      "Kod": "\u00d6V",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Designomr\u00e5det",
        "en": "Design"
      },
      "Beskrivning": {
        "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1994-07-01"
      },
      "ID": "2",
      "Kod": "DE",
      "LarosateID": -1
    }
  ]
}
```


20.18 kravpatidigarestudier_JSON

1133 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def kravpatidigarestudier_JSON(self):
    """
    Returns requirements for earlier studies.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/kravpatidigarestudier',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1134 ⟨*test functions* 120a⟩+≡

```
def test_kravpatidigarestudier_JSON():
  r = ladok.kravpatidigarestudier_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "KravPaTidigareStudier": [
    {
      "Benamning": {
        "sv": "Tidigare h\u00f6gskolestudier kr\u00e4vs",
        "en": "University studies required"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "uh",
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "UH",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Inga tidigare h\u00f6gskolestudier kr\u00e4vs",
        "en": "Upper secondary or equivalent"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "grundlaggande",
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "GR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ingen grundl\u00e4ggande beh\u00f6righet kr\u00e4vs",
        "en": "No general entry requirements needed"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "inga",
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "IN",
      "LarosateID": -1
    }
  ]
}
```

20.19 studieordning_JSON

1135a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def studieordning_JSON(self):
  """
  Returns study regulations.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/internal/grunddata/studieordning',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

1135b ⟨*test functions* 120a⟩+≡

```
def test_studieordning_JSON():
  r = ladok.studieordning_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Studieordning": [
    {
      "Benamning": {
        "sv": "H\u00f6gskoleutbildning, 1993 \u00e5rs studieordning",
        "en": "Higher education, study regulation of 1993"
      },
      "Beskrivning": {
        "sv": "Avser i Ladok 1993 \u00e5rs studieordning inklusive dess f\u00f6reg\u00e5ngare"
      },
      "Dolt": false,
      "EnhetID": 9,
      "Giltighetsperiod": {},
      "ID": "2",
      "Kod": "H\u00d693",
      "LarosateID": -1,
      "UtbildningsformID": 1
    },
    {
      "Benamning": {
        "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (timmar)",
        "en": "Access education (hours)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 5,
      "Giltighetsperiod": {},
      "ID": "12",
      "Kod": "\u00d6VBT",
```

```
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (po\u00e4ng)",
        "en": "Access education (fup)"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
      },
      "Dolt": false,
      "EnhetID": 4,
      "Giltighetsperiod": {},
      "ID": "3",
      "Kod": "F\u00d6PO",
      "LarosateID": -1,
      "UtbildningsformID": 2
    },
    {
      "Benamning": {
        "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (veckor)",
        "en": "Access education (weeks)"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
      },
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "F\u00d6VE",
      "LarosateID": -1,
      "UtbildningsformID": 2
    },
    {
      "Benamning": {
        "sv": "H\u00f6gskoleintern utbildning (ORU)",
        "en": "Internal education (ORU)"
      },
      "Beskrivning": {
        "sv": "Intern utbildning vid \u00d6rebro universitet"
      },
      "Dolt": false,
      "EnhetID": 6,
      "Giltighetsperiod": {
        "Slutdatum": "2007-06-30",
        "Startdatum": "2004-01-01"
      },
      "ID": "15",
      "Kod": "\u00d6VHI",
```

```
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "\u00c4ldre utbildning vid F\u00f6rsvarsh\u00f6gskolan",
        "en": "Older defence education"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordningen (1996:1476) med instruktion f\u00f6r F\u00f6rsvarsh\
      },
      "Dolt": false,
      "EnhetID": 10,
      "Giltighetsperiod": {
        "Slutdatum": "2007-12-31"
      },
      "ID": "16",
      "Kod": "\u00d6VFU",
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "Kvalificerad yrkesutbildning",
        "en": "Post-secondary vocational education and training"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordningen (2001:1131) om kvalificerad yrkesutbildning (upph\u0
      },
      "Dolt": false,
      "EnhetID": 7,
      "Giltighetsperiod": {
        "Slutdatum": "2013-12-31"
      },
      "ID": "13",
      "Kod": "KY02",
      "LarosateID": -1,
      "UtbildningsformID": 100968
    },
    {
      "Benamning": {
        "sv": "Preparandutbildning",
        "en": "Preparatory education"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordningen (1985:681) om preparandutbildning i svenska (upph\u0
      },
      "Dolt": false,
      "EnhetID": 6,
      "Giltighetsperiod": {
        "Slutdatum": "1993-06-30"
```

```
      },
      "ID": "14",
      "Kod": "\u00d6VPR",
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning, \u00d6vrig utbildning (timmar)",
        "en": "Contract education (hours)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 5,
      "Giltighetsperiod": {
        "Slutdatum": "2018-12-31"
      },
      "ID": "9",
      "Kod": "\u00d6VUT",
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "Yrkesh\u00f6gskoleutbildning",
        "en": "Higher vocational education"
      },
      "Beskrivning": {
        "sv": "Utbildning enligt f\u00f6rordning (2009:130) om yrkesh\u00f6gskolan"
      },
      "Dolt": false,
      "EnhetID": 8,
      "Giltighetsperiod": {
        "Startdatum": "2009-07-01"
      },
      "ID": "5",
      "Kod": "YH09",
      "LarosateID": -1,
      "UtbildningsformID": 4
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning (h\u00f6gskolepo\u00e4ng)",
        "en": "Contract education (credits)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 2,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
```

```
      "ID": "17",
      "Kod": "UPHP",
      "LarosateID": -1,
      "UtbildningsformID": 100928
    },
    {
      "Benamning": {
        "sv": "Polisutbildning",
        "en": "Police education"
      },
      "Beskrivning": {
        "sv": "Polisutbildning som ej uppfyller alla kvalitetskrav f\u00f6r h\u00f6gskoleutbildning."
      },
      "Dolt": false,
      "EnhetID": 2,
      "Giltighetsperiod": {},
      "ID": "109831",
      "Kod": "PU99",
      "LarosateID": -1,
      "UtbildningsformID": 100969
    },
    {
      "Benamning": {
        "sv": "Polisutbildning, motsvarande h\u00f6gskoleutbildning",
        "en": "Police education, equal to Higher education"
      },
      "Beskrivning": {
        "sv": "Polisutbildning som uppfyller kvalitetskraven f\u00f6r h\u00f6gskoleutbildning"
      },
      "Dolt": false,
      "EnhetID": 2,
      "Giltighetsperiod": {
        "Startdatum": "2018-07-01"
      },
      "ID": "135370",
      "Kod": "PU18",
      "LarosateID": -1,
      "UtbildningsformID": 100969
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning (timmar)",
        "en": "Contract education (hours)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 5,
      "Giltighetsperiod": {
        "Startdatum": "2019-01-01"
      },
      "ID": "147898",
```

```
      "Kod": "UPTI",
      "LarosateID": -1,
      "UtbildningsformID": 100928
    },
    {
      "Benamning": {
        "sv": "Samverkansutbildning",
        "en": "Collaborative education"
      },
      "Beskrivning": {
        "sv": "Utbildning som bedrivs i samverkan mellan h\u00f6gskola och folkh\u00f6gskola."
      },
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "161480",
      "Kod": "PISU",
      "LarosateID": -1,
      "UtbildningsformID": 161479
    },
    {
      "Benamning": {
        "sv": "H\u00f6gskoleutbildning, 2007 \u00e5rs studieordning",
        "en": "Higher education, study regulation of 2007"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 2,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
      "ID": "1",
      "Kod": "H\u00d607",
      "LarosateID": -1,
      "UtbildningsformID": 1
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning (veckor)",
        "en": "Contract education (weeks)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "18",
      "Kod": "UPVE",
      "LarosateID": -1,
      "UtbildningsformID": 100928
    },
    {
```

```
      "Benamning": {
        "sv": "\u00d6-Fel",
        "en": "\u00d6-Fel"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {
        "Slutdatum": "1900-01-01"
      },
      "ID": "138710",
      "Kod": "FEL",
      "LarosateID": -1,
      "UtbildningsformID": 100970
    },
    {
      "Benamning": {
        "sv": "Pastoralteologisk utbildning",
        "en": "Pastoral education"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "162110",
      "Kod": "PIPT",
      "LarosateID": -1,
      "UtbildningsformID": 161479
    }
  ]
}
```


20.20 enhet_JSON

1141a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def enhet_JSON(self):
  """
  Returns credit units.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/enhet',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

1141b ⟨*test functions* 120a⟩+≡

```
def test_enhet_JSON():
  r = ladok.enhet_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Enhet": [
    {
      "Benamning": {
        "sv": "Po\u00e4ng (\u00d6vrig utbildning)",
        "en": "Credit points"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-01-01"
      },
      "Helarsvarde": 40,
      "ID": "6",
      "Kod": "AUP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "F\u00f6rutbildningspo\u00e4ng",
        "en": "Pre-education credits"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Helarsvarde": 60,
      "ID": "4",
      "Kod": "FUP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "H\u00f6gskolepo\u00e4ng",
        "en": "Credits"
      },
      "Beskrivning": {
        "sv": "\u00d6versattes 2007-2010 med Higher education credits"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2007-07-01"
      },
      "Helarsvarde": 60,
      "ID": "2",
      "Kod": "HP",
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "Konverterade h\u00f6gskolepo\u00e4ng",
        "en": "Converted credits"
      },
      "Beskrivning": {
        "sv": "Enheten po\u00e4ng konverterades till h\u00f6gskolepo\u00e4ng i Ladok f\u00f6r 1993 \u00
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2007-06-30"
      },
      "Helarsvarde": 60,
      "ID": "9",
      "Kod": "HP-K",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Interna po\u00e4ng",
        "en": "Internal credits"
      },
      "Beskrivning": {
        "sv": "Har enbart anv\u00e4nts av F\u00f6rsvarsh\u00f6gskolan"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2016-07-01"
      },
      "Helarsvarde": 60,
      "ID": "10",
      "Kod": "IP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "KY-po\u00e4ng",
        "en": "KY credits"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2013-12-31",
        "Startdatum": "2002-01-01"
      },
      "Helarsvarde": 40,
      "ID": "7",
      "Kod": "KYP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Timmar",
```

```
        "en": "Hours"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Helarsvarde": 1600,
      "ID": "5",
      "Kod": "T",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Veckor",
        "en": "Weeks"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Helarsvarde": 40,
      "ID": "1",
      "Kod": "V",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Yrkesh\u00f6gskolepo\u00e4ng",
        "en": "HVE credits"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2009-07-01"
      },
      "Helarsvarde": 200,
      "ID": "8",
      "Kod": "YHP",
      "LarosateID": -1
    }
  ]
}
```

20.21 studielokalisering_JSON

1144 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def studielokalisering_JSON(self):
    """
    Returns study locations.
    """
    r = self.session.get(
```

```
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/studielokalisering',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1145 ⟨*test functions* 120a⟩+≡

```
def test_studielokalisering_JSON():
  r = ladok.studielokalisering_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:


```
{
  "Studielokalisering": [
    {
      "Benamning": {
        "sv": "J\u00e4rf\u00e4lla",
        "en": "J\u00e4rf\u00e4lla"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1996-06-30",
        "Startdatum": "1994-08-01"
      },
      "ID": "131775",
      "Kod": "0123",
      "LarosateID": 29,
      "OrtID": 5
    },
    {
      "Benamning": {
        "sv": "Huddinge",
        "en": "Huddinge"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2019-01-14",
        "Startdatum": "2002-01-01"
      },
      "ID": "131779",
      "Kod": "0126",
      "LarosateID": 29,
      "OrtID": 109830
    },
    {
      "Benamning": {
        "sv": "S\u00f6dert\u00e4lje",
        "en": "S\u00f6dert\u00e4lje"
```

```
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2019-01-14",
        "Startdatum": "1987-01-01"
      },
      "ID": "131771",
      "Kod": "0181",
      "LarosateID": 29,
      "OrtID": 20
    },
    {
      "Benamning": {
        "sv": "Norrt\u00e4lje",
        "en": "Norrt\u00e4lje"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2005-06-30",
        "Startdatum": "1997-08-01"
      },
      "ID": "131776",
      "Kod": "0188",
      "LarosateID": 29,
      "OrtID": 28
    },
    {
      "Benamning": {
        "sv": "Nyk\u00f6ping",
        "en": "Nyk\u00f6ping"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2005-06-30",
        "Startdatum": "2005-01-01"
      },
      "ID": "131777",
      "Kod": "0480",
      "LarosateID": 29,
      "OrtID": 44
    },
    {
      "Benamning": {
        "sv": "Valdemarsvik",
        "en": "Valdemarsvik"
      },
      "Beskrivning": {},
      "Dolt": true,
```

```
      "Giltighetsperiod": {
        "Slutdatum": "1999-12-31",
        "Startdatum": "1900-01-01"
      },
      "ID": "131780",
      "Kod": "0563",
      "LarosateID": 29,
      "OrtID": 60
    },
    {
      "Benamning": {
        "sv": "Visby",
        "en": "Visby"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2000-12-31",
        "Startdatum": "1991-08-01"
      },
      "ID": "131781",
      "Kod": "0980",
      "LarosateID": 29,
      "OrtID": 108
    },
    {
      "Benamning": {
        "sv": "\u00c4ngelholm",
        "en": "\u00c4ngelholm"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1997-12-31",
        "Startdatum": "1997-12-31"
      },
      "ID": "131782",
      "Kod": "1292",
      "LarosateID": 29,
      "OrtID": 154
    },
    {
      "Benamning": {
        "sv": "\u00d6rebro",
        "en": "\u00d6rebro"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1998-06-30",
        "Startdatum": "1996-08-01"
```

```
      },
      "ID": "131786",
      "Kod": "1880",
      "LarosateID": 29,
      "OrtID": 237
    },
    {
      "Benamning": {
        "sv": "V\u00e4ster\u00e5s",
        "en": "V\u00e4ster\u00e5s"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1999-12-31",
        "Startdatum": "1994-08-01"
      },
      "ID": "131783",
      "Kod": "1980",
      "LarosateID": 29,
      "OrtID": 248
    },
    {
      "Benamning": {
        "sv": "Falun",
        "en": "Falun"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1998-12-31",
        "Startdatum": "1994-08-01"
      },
      "ID": "131787",
      "Kod": "2080",
      "LarosateID": 29,
      "OrtID": 263
    },
    {
      "Benamning": {
        "sv": "G\u00e4vle",
        "en": "G\u00e4vle"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1998-12-31",
        "Startdatum": "1997-08-01"
      },
      "ID": "131784",
      "Kod": "2180",
```

```
      "LarosateID": 29,
      "OrtID": 273
    },
    {
      "Benamning": {
        "sv": "Sundsvall",
        "en": "Sundsvall"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1997-12-31",
        "Startdatum": "1996-08-01"
      },
      "ID": "131785",
      "Kod": "2281",
      "LarosateID": 29,
      "OrtID": 281
    },
    {
      "Benamning": {
        "sv": "\u00d6rnsk\u00f6ldsvik",
        "en": "\u00d6rnsk\u00f6ldsvik"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1997-12-31",
        "Startdatum": "1997-01-01"
      },
      "ID": "131788",
      "Kod": "2284",
      "LarosateID": 29,
      "OrtID": 284
    },
    {
      "Benamning": {
        "sv": "Handelsh\u00f6gskolan",
        "en": "Stockholm School of Economics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
      "ID": "135191",
      "Kod": "HANDELS",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
```

```
      "Benamning": {
        "sv": "Jokkmokk",
        "en": "Jokkmokk"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157821",
      "Kod": "JOKKMOKK",
      "LarosateID": 29,
      "OrtID": 315
    },
    {
      "Benamning": {
        "sv": "Kiruna",
        "en": "Kiruna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157822",
      "Kod": "KIRUNA",
      "LarosateID": 29,
      "OrtID": 326
    },
    {
      "Benamning": {
        "sv": "KTH Kista",
        "en": "KTH Kista"
      },
      "Beskrivning": {
        "sv": "\"Campus\" Kista"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
      "ID": "135194",
      "Kod": "KISTA",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
      "Benamning": {
        "sv": "Ludvika",
        "en": "Ludvika"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157824",
      "Kod": "LUDVIKA",
      "LarosateID": 29,
      "OrtID": 267
    },
    {
      "Benamning": {
        "sv": "Norrt\u00e4lje",
        "en": "Norrt\u00e4lje"
      },
      "Beskrivning": {
        "sv": "L\u00e4rcentrum, Tekniskt bas\u00e5r"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2025-02-18"
      },
      "ID": "161536",
      "Kod": "NORRTAN",
      "LarosateID": 29,
      "OrtID": 28
    },
    {
      "Benamning": {
        "sv": "\u00d6rnsk\u00f6ldsvik",
        "en": "\u00d6rnsk\u00f6ldsvik"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157828",
      "Kod": "ORNSKOLDSVI",
      "LarosateID": 29,
      "OrtID": 284
    },
    {
      "Benamning": {
        "sv": "Oskarshamn",
        "en": "Oskarshamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
```

```
      },
      "ID": "157826",
      "Kod": "OSKARSHAMN",
      "LarosateID": 29,
      "OrtID": 103
    },
    {
      "Benamning": {
        "sv": "Stockholms universitet",
        "en": "Stockholm University"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
      "ID": "135197",
      "Kod": "SU",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
      "Benamning": {
        "sv": "S\u00f6dert\u00e4lje",
        "en": "S\u00f6dert\u00e4lje"
      },
      "Beskrivning": {
        "sv": "L\u00e4rcentrum, Teknisk bas\u00e5r"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2025-02-18"
      },
      "ID": "161537",
      "Kod": "TALJE",
      "LarosateID": 29,
      "OrtID": 20
    },
    {
      "Benamning": {
        "sv": "Botkyrka",
        "en": "Botkyrka"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1997-12-31",
        "Startdatum": "1997-08-01"
      },
      "ID": "131772",
      "Kod": "0127",
```

```
      "LarosateID": 29,
      "OrtID": 110990
    },
    {
      "Benamning": {
        "sv": "Haninge",
        "en": "Haninge"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2016-06-30",
        "Startdatum": "1994-08-01"
      },
      "ID": "131773",
      "Kod": "0136",
      "LarosateID": 29,
      "OrtID": 110991
    },
    {
      "Benamning": {
        "sv": "AlbaNova",
        "en": "AlbaNova"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
      "ID": "135190",
      "Kod": "ALBANOVA",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
      "Benamning": {
        "sv": "\u00c5re",
        "en": "\u00c5re"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157819",
      "Kod": "ARE",
      "LarosateID": 29,
      "OrtID": 290
    },
    {
      "Benamning": {
```

```
          "sv": "KI Flemingsberg",
          "en": "KI Flemingsberg"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "2018-06-20"
        },
        "ID": "135192",
        "Kod": "KI_FLEMINGS",
        "LarosateID": 29,
        "OrtID": 7
      },
      {
        "Benamning": {
          "sv": "KI Solna",
          "en": "KI Solna"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "2018-06-20"
        },
        "ID": "135193",
        "Kod": "KI_SOLNA",
        "LarosateID": 29,
        "OrtID": 25
      },
      {
        "Benamning": {
          "sv": "Nyk\u00f6ping",
          "en": "Nyk\u00f6ping"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "2024-01-13"
        },
        "ID": "157827",
        "Kod": "NYKOPING",
        "LarosateID": 29,
        "OrtID": 44
      },
      {
        "Benamning": {
          "sv": "Nyn\u00e4shamn",
          "en": "Nyn\u00e4shamn"
        },
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      "Beskrivning": {
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      "OrtID": 7
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653           "en": "KTH Solna"
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657           "en": "SciLife Labs, Solna"
658         },
659         "Dolt": false,
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662         },
663         "ID": "135610",
664         "Kod": "SCILIFELAB",
665         "LarosateID": 29,
666         "OrtID": 25
667       }
668     ]
669   }
```

20.22 antagningsomgang_JSON

1158a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def antagningsomgang_JSON(self):
    """
    Returns the admission round.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/antagningsomgang',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1158b ⟨*test functions* 120a⟩+≡

```
  def test_antagningsomgang_JSON():
    r = ladok.antagningsomgang_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
1   {
2     "Antagningsomgang": [
3       {
4         "Benamning": {
5           "sv": "Anm\u00e4lan till kurs inom program HT2022",
6           "en": "Application to courses within programme HT2022"
7         },
8         "Beskrivning": {},
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        "en": "Application to courses within programme autumn term 2023"
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        "en": "Application to courses within programme at KTH VT2020"
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        "en": "Application to courses within programme VT2021"
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        "en": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00e
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        "en": "Autumn Semester 2024"
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      "Studieavgiftsbelagd": true
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        "en": "International Courses and Programmes Autumn Semester 2019"
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        "en": "International Courses and Programmes Autumn Semester 2024"
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    },
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      "Benamning": {
        "sv": "V\u00e5rterminen 2022",
        "en": "Spring Semester 2022"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "152326",
      "Kod": "VT2022",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2021-10-15",
      "SistaAnnonseringsdag": "2022-06-10",
      "Studieavgiftsbelagd": true
    },
    {
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        "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018",
        "en": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018"
```

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      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "135279",
      "Kod": "29AKPHT18",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2018-05-15",
      "SistaAnnonseringsdag": "2019-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2019",
        "en": "Application to courses within programme at KTH HT2019"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
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      "Kod": "29AKPHT19",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2019-05-15",
      "SistaAnnonseringsdag": "2020-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program HT2024",
        "en": "Application to courses within programme autumn term 2024"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "29AKPHT24",
      "LarosateID": 29,
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      "SistaAnnonseringsdag": "2024-05-15",
      "Studieavgiftsbelagd": true
    },
    {
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        "en": "Application to courses within programme autumn term 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161940",
      "Kod": "29AKPHT25",
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      "SistaAnnonseringsdag": "2025-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program VT2022",
        "en": "Application to courses within programme VT2022"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "152554",
      "Kod": "29AKPVT22",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2021-11-15",
      "SistaAnnonseringsdag": "2022-04-30",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program VT2023",
        "en": "Application to courses within programme spring term 2023"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "154230",
      "Kod": "29AKPVT23",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2022-11-15",
      "SistaAnnonseringsdag": "2023-04-30",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "H\u00f6sstterminen 2019",
        "en": "Autumn Semester 2019"
      },
      "Beskrivning": {
        "sv": "Prelimin\u00e4r sista anm\u00e4lningsdag"
      },
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "138495",
      "Kod": "HT2019",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2019-04-15",
      "SistaAnnonseringsdag": "2020-01-10",
      "Studieavgiftsbelagd": true
```

```
    },
    {
      "Benamning": {
        "sv": "H\u00f6sterminen 2022",
        "en": "Autumn semester 2022"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "152327",
      "Kod": "HT2022",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2022-04-19",
      "SistaAnnonseringsdag": "2023-01-10",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "H\u00f6sterminen 2027",
        "en": "Autumn Semester 2027"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "164431",
      "Kod": "HT2027",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2027-04-15",
      "SistaAnnonseringsdag": "2027-01-29",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Internationella kurser och program h\u00f6sterminen 2018",
        "en": "International Courses and Programmes Autumn Semester 2018"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "135281",
      "Kod": "IKHT18",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2018-01-15",
      "SistaAnnonseringsdag": "2019-01-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Internationella masterprogram h\u00f6sterminen 2024",
        "en": "International Master\u2019s Programmes Autumn Semester 2024"
      },
```

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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "158395",
      "Kod": "MASTERHT24",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2024-01-15",
      "SistaAnnonseringsdag": "2024-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Internationella masterprogram h\u00f6sterminen 2025",
        "en": "International Master's Programmes Autumn Semester 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "160052",
      "Kod": "MASTERHT25",
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      "SistaAnnonseringsdag": "2025-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Sommarterminen 2025",
        "en": "Summer Session 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161290",
      "Kod": "ST2025",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2025-03-17",
      "SistaAnnonseringsdag": "2025-08-19",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Sommarterminen 2026",
        "en": "Summer Session 2026"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161942",
      "Kod": "ST2026",
      "LarosateID": 29,
```

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      "SistaAnnonseringsdag": "2025-08-19",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "V\u00e5rterminen 2025",
        "en": "Spring Semester 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "160016",
      "Kod": "VT2025",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2024-10-15",
      "SistaAnnonseringsdag": "2025-06-09",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "V\u00e5rterminen 2026",
        "en": "Spring Semester 2026"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161945",
      "Kod": "VT2026",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2025-10-15",
      "SistaAnnonseringsdag": "2026-06-09",
      "Studieavgiftsbelagd": true
    }
  ]
}
```


20.23 utbildningstyp_JSON

1173 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def utbildningstyp_JSON(self):
    """
    Returns types of education.

    For information about these, see

      https://ladok.se/wp-content/uploads/2018/01/Funktionsbeskrivning_095.pdf
    """
    r = self.session.get(
```

```
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/utbildningstyp',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1174 ⟨*test functions* 120a⟩+≡

```
def test_utbildningstyp_JSON():
  r = ladok.utbildningstyp_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Utbildningstyp": [
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul utan omfattning",
        "en": "Module without scope"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "3",
      "Kod": "2007MUO",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "d31a4082-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "d31a4081-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
            "Uid": "d31a4085-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
            "Uid": "d31a4084-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
```

```
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "d31a4086-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "d31a4080-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "d31a196f-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.forskarniva"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "d31a4083-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          }
        ],
        "Uid": "0441f5ba-1b3f-11e6-aff0-464044604cb6"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "4",
      "Kod": "2007MOD",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "b18301bb-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "b18301bd-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
```

```
            },
            {
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              "Varde": "true"
            },
            {
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              "Uid": "b18301c0-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "grupp.for.utsokning.forskarniva"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
              "Uid": "b18301bc-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.sjalvstandig",
              "Uid": "b18301bf-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "false"
            },
            {
              "Regelnamn": "commons.domain.regel.versionshanteras",
              "Uid": "b18301be-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "false"
            }
          ],
          "Uid": "0461b2c4-1b3f-11e6-aff0-464044604cb6"
        },
        "Sorteringsordning": 50,
        "StudieordningID": 1,
        "TillfalleInomUtbildningstyper": [],
        "UtbildningstyperInomUtbildningstyp": []
      },
      {
        "AvserTillfalle": false,
        "Benamning": {
          "sv": "Kurs, grundniv\u00e5",
          "en": "Course, First-cycle"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": "22",
        "Kod": "2007GKURS",
        "LarosateID": -1,
        "NivaInomStudieordningID": 1,
        "Regelverk": {
          "Regelvarden": [
            {
```

```
            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
            "Uid": "cd705d60-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "20"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Uid": "cd705d5e-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "cd705d5f-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "cd705d5d-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
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            "Uid": "cd705d5b-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
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            "Uid": "cd705d61-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          }
        ],
        "Uid": "047c3fad-1b3f-11e6-aff0-464044604cb6"
      },
      "Sorteringsordning": 1,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        3,
        4
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs, avancerad niv\u00e5",
        "en": "Course, Second-cycle"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "24",
      "Kod": "2007AKURS",
      "LarosateID": -1,
      "NivaInomStudieordningID": 2,
      "Regelverk": {
        "Regelvarden": [
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            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
            "Uid": "e15c283f-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "e15c2842-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Uid": "e15c2841-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
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            "Uid": "e15c283e-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
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            "Uid": "e15c2843-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "20"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "e15c2840-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
            "Uid": "e15c2844-eef3-11ed-8ea0-65f2d2a34a25",
            "Varde": "true"
          }
        ],
        "Uid": "0491c386-1b3f-11e6-aff0-464044604cb6"
      },
      "Sorteringsordning": 2,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
```

```
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        3,
        4
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "52",
      "Kod": "2007KTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan.utannonseras",
            "Uid": "6e4cc1b2-b803-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
            "Uid": "6e4cc1b3-b803-11ed-8cb2-324fb1124949",
            "Varde": "varning"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "6e4cc1b1-b803-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "6e4c9a9f-b803-11ed-8cb2-324fb1124949",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
        ],
        "Uid": "04abdb3c-1b3f-11e6-aff0-464044604cb6"
      },
      "Sorteringsordning": 1,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [
```

```
        22,
        24
      ],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Program",
        "en": "Programme"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "78",
      "Kod": "2007PRG",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "28074798-5350-11f0-91e2-3ba1697c4b13",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
            "Uid": "28072086-5350-11f0-91e2-3ba1697c4b13",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "28074797-5350-11f0-91e2-3ba1697c4b13",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "28074799-5350-11f0-91e2-3ba1697c4b13",
            "Varde": "true"
          }
        ],
        "Uid": "04b37c62-1b3f-11e6-aff0-464044604cb6"
      },
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        101270,
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        "en": "Programme instance"
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      "Beskrivning": {},
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            "Varde": "true"
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            "Varde": "varning"
          }
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        101381,
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        152633,
        101375,
        101290,
        101374,
        101292,
        162240,
        101270,
        101377,
        101961,
        24,
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        "en": "Specialisation"
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            "Varde": "false"
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        24,
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        "en": "Specialisation instance"
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            "Varde": "true"
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            "Varde": "true"
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        22,
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        101381,
        152635,
        152633,
        101375,
        101374,
        101292,
        101377,
        24,
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        "en": "Course package"
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      "Dolt": false,
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          },
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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        24
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            "Varde": "varning"
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      "StudieordningID": 1,
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      "UtbildningstyperInomUtbildningstyp": [
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        101381,
        24
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    },
    {
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        "en": "Course, Undergraduate"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Uid": "63db66ad-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
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            "Varde": "20"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
        ],
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        "en": "Module"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "true"
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            "Varde": "false"
          },
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            "Uid": "af4dac09-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          }
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      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "1993PRG",
      "LarosateID": -1,
      "NivaInomStudieordningID": 4,
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
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            "Uid": "72b85ff9-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
        ],
        "Uid": "a6c1681c-ec5f-11e6-8a84-352cf9f6431e"
      },
      "Sorteringsordning": 4,
      "StudieordningID": 2,
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      "UtbildningstyperInomUtbildningstyp": [
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    },
    {
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      "Benamning": {
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        "en": "Programme instance"
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      "Beskrivning": {},
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      "Giltighetsperiod": {},
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
        ],
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 2,
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      "UtbildningstyperInomUtbildningstyp": [
        101965,
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        105632,
        52,
        101382,
        101966,
        101381,
        101961,
        138460
      ]
    },
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      "AvserTillfalle": true,
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        "en": "Course instance, Undergraduate"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "true"
          },
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              "Varde": "grupp.for.utsokning.grundavanceradniva"
            }
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        },
        "Sorteringsordning": 50,
        "StudieordningID": 2,
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        "UtbildningstyperInomUtbildningstyp": []
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        "Benamning": {
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          "en": "Exchange agreement"
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        "Beskrivning": {},
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              "Uid": "fa69a5ba-6f95-11eb-998b-eb07df7e45d0",
              "Varde": "false"
            },
            {
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              "Varde": "true"
            }
          ],
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          78,
          151503,
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        101954
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        "en": "Exchange instance, incoming students"
      },
      "Beskrivning": {},
      "Dolt": false,
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            "Varde": "true"
          },
          {
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            "Uid": "b972256e-fb9f-11ec-8340-1c3a6877401a",
            "Varde": "true"
          },
          {
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            "Uid": "b972256d-fb9f-11ec-8340-1c3a6877401a",
            "Varde": "true"
          }
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      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [
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      "UtbildningstyperInomUtbildningstyp": [
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        52,
        22,
        101382,
        101378,
        94,
        106390,
        101381,
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          148962,
          152635,
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          101380,
          101954,
          101292,
          151504,
          78,
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          107510,
          101955,
          101950,
          151503,
          24
        ]
      },
      {
        "AvserTillfalle": true,
        "Benamning": {
          "sv": "Utbytestillf\u00e4lle, utresande",
          "en": "Exchange instance, outgoing students"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
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        "Kod": "2007UTFU",
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              "Varde": "true"
            },
            {
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              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
              "Uid": "cc811891-ee40-11e8-9270-17395ad8480f",
              "Varde": "true"
            }
          ],
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        },
        "Sorteringsordning": 50,
        "StudieordningID": 1,
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      "Benamning": {
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        "en": "Course"
      },
      "Beskrivning": {},
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      "Kod": "FUPKURS",
      "LarosateID": -1,
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            "Varde": "grupp.for.utsokning.forutbildning"
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            "Varde": "true"
          },
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          105631,
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            "Varde": "true"
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              "Varde": "grupp.for.utsokning.forskarniva"
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          4
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          "en": "Course instance, Third-cycle"
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            "Varde": "true"
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      "StudieordningID": 2,
      "TillfalleInomUtbildningstyper": [
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      "UtbildningstyperInomUtbildningstyp": [
        101953,
        101968,
        101951,
        107510,
        101377,
        101955
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Program",
        "en": "Programme"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101971",
      "Kod": "FUPPRG",
      "LarosateID": -1,
      "Regelverk": {
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            "Uid": "103685d1-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
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            "Uid": "103685d4-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "103685d3-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
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            "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
            "Uid": "103685d2-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          }
        ],
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      "Sorteringsordning": 4,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        101973,
        22,
        101378
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Programtillf\u00e4lle",
        "en": "Programme instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101972",
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      "LarosateID": -1,
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            "Varde": "true"
          },
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            "Uid": "a24cdb14-e4b3-11f0-b251-01189c9f465b",
            "Varde": "grupp.for.utsokning.forutbildning"
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          {
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            "Uid": "a24cdb11-e4b3-11f0-b251-01189c9f465b",
            "Varde": "varning"
          },
          {
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            "Uid": "a24cdb12-e4b3-11f0-b251-01189c9f465b",
            "Varde": "true"
          },
          {
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            "Uid": "a24cdb10-e4b3-11f0-b251-01189c9f465b",
            "Varde": "true"
          }
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        "Uid": "e67221cf-a76a-11e6-bc5d-3b8bbccc4a18"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [
        101971
      ],
      "UtbildningstyperInomUtbildningstyp": [
        101973,
        52,
        22,
        101382,
        101378,
        148155,
        164114,
        101974,
        164115
      ]
    },
    {
      "AvserTillfalle": false,
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      "Benamning": {
        "sv": "Inriktning",
        "en": "Specialisation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101973",
      "Kod": "FUPINR",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
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            "Uid": "5c401d45-c4d3-11e9-ae13-dc75864a44bd",
            "Varde": "true"
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            "Varde": "grupp.for.utsokning.forutbildning"
          },
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            "Uid": "5c401d44-c4d3-11e9-ae13-dc75864a44bd",
            "Varde": "true"
          },
          {
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            "Varde": "false"
          }
        ],
        "Uid": "35cbcf80-a76a-11e6-bc5d-3b8bbccc4a18"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        22,
        101378
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Inriktningstillf\u00e4lle",
        "en": "Specialisation instance"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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      "Kod": "FUPINRTF",
      "LarosateID": -1,
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            "Uid": "ad81a8ce-e4b3-11f0-b251-01189c9f465b",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "ad81a8cc-e4b3-11f0-b251-01189c9f465b",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "ad81a8cd-e4b3-11f0-b251-01189c9f465b",
            "Varde": "grupp.for.utsokning.forutbildning"
          }
        ],
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [
        101973
      ],
      "UtbildningstyperInomUtbildningstyp": [
        52,
        22,
        101382,
        101378,
        164114,
        164115
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "101975",
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            "Uid": "d020fdf0-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
            "Uid": "d020fdef-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "d020fded-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "d020fdee-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.yhutbildning"
          }
        ],
        "Uid": "39072f3e-a76b-11e6-bc5d-3b8bbccc4a18"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 5,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul utan omfattning",
        "en": "Module without scope"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "101976",
      "Kod": "FUPMUO",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "d7c726f4-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
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              "Varde": "grupp.for.utsokning.forutbildning"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
              "Uid": "d7c726f6-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.har.omfattning",
              "Uid": "d7c726f7-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "false"
            },
            {
              "Regelnamn": "commons.domain.regel.versionshanteras",
              "Uid": "d7c726f2-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "false"
            },
            {
              "Regelnamn": "commons.domain.regel.sjalvstandig",
              "Uid": "d7c726f3-e80a-11e8-b1f1-65de97d74aa5",
              "Varde": "false"
            }
          ],
          "Uid": "6afb67bd-a772-11e6-bc5d-3b8bbccc4a18"
        },
        "Sorteringsordning": 50,
        "StudieordningID": 3,
        "TillfalleInomUtbildningstyper": [],
        "UtbildningstyperInomUtbildningstyp": []
      },
      {
        "AvserTillfalle": false,
        "Benamning": {
          "sv": "Modul utan omfattning",
          "en": "Module without scope"
        },
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        "Dolt": false,
        "Giltighetsperiod": {},
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        "ID": "101990",
        "Kod": "UPHPMUO",
        "LarosateID": -1,
        "Regelverk": {
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            "Varde": "false"
          },
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            "Uid": "dc2eed50-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "dc2eed4e-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "dc2eed4f-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
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            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "dc2eed51-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
        ],
        "Uid": "5fcee668-a800-11e6-b02f-d0cc883a47fa"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "101991",
      "Kod": "UPHPMOD",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
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            "Varde": "true"
          },
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            "Varde": "true"
          },
          {
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            "Uid": "c7a86969-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "c7a86965-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "c7a86967-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          }
        ],
        "Uid": "855d0160-a800-11e6-b02f-d0cc883a47fa"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs, grundniv\u00e5",
        "en": "Course, First-cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "101992",
      "Kod": "UPHPGKURS",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
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            "Varde": "20"
          },
          {
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            "Uid": "e3e124f9-e0dd-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "e3e124f6-e0dd-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "e3e124f8-e0dd-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "e3e124f5-e0dd-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "e3dfc563-e0dd-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          }
        ],
        "Uid": "ce0f1517-a800-11e6-b02f-d0cc883a47fa"
      },
      "Sorteringsordning": 1,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        101990,
        101991
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs, avancerad niv\u00e5",
        "en": "Course, Second-cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "101993",
      "Kod": "UPHPAKURS",
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      "LarosateID": -1,
      "NivaInomStudieordningID": 2,
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        "Regelvarden": [
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            "Uid": "009fd936-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "20"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "009fd935-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Uid": "009fd938-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "009fd937-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "009fd934-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "009fd933-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          }
        ],
        "Uid": "310b3370-a801-11e6-b02f-d0cc883a47fa"
      },
      "Sorteringsordning": 2,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        101990,
        101991
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
      },
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "101994",
      "Kod": "UPHPKTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "95b787c2-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
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            "Varde": "true"
          },
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            "Uid": "95b787c4-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.kan.utannonseras",
            "Uid": "95b787c3-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
        ],
        "Uid": "005f8b63-4c22-11e7-8c70-788c557b416a"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [
        101993,
        101992
      ],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Inriktning",
        "en": "Specialisation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101995",
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      "Kod": "UPHPINR",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "165fbc81-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "165fbc7f-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "165fbc80-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
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        102072
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        "en": "Specialisation"
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            "Varde": "true"
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      "Benamning": {
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        "en": "Individual exchange load instance, outgoing student"
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            }
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        "en": "Individual course instance, Third-cycle"
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        "en": "Programme (including attributes from the study regulation of 1993)"
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              "Varde": "grupp.for.utsokning.polisutbildning"
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        "Benamning": {
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          "en": "Course instance"
        },
        "Beskrivning": {},
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        138693,
        109973
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        "en": "Course"
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        109980
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      },
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        121173
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        "en": "Programme instance"
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            "Varde": "false"
          }
        ],
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        "en": "Course"
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        "en": "Course instance"
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            "Varde": "grupp.for.utsokning.forskarniva"
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            "Uid": "0e38c1d6-e97b-11e8-9df7-dac5c1184137",
            "Varde": "20"
          }
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              "Varde": "grupp.for.utsokning.forskarniva"
            }
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        "en": "Course instance"
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        "en": "Course, First-cycle"
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            "Varde": "true"
          },
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        "en": "Module"
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Module without scope"
      },
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      "LarosateID": -1,
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            "Varde": "true"
          },
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            "Varde": "false"
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    },
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        "en": "Course instance"
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      "StudieordningID": 135370,
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        109972,
        138693
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    },
    {
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        "en": "Programme instance"
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            "Varde": "grupp.for.utsokning.polisutbildning"
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        109972,
        138693,
        109973
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        "en": "Course package"
      },
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            "Varde": "true"
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        101378
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        "en": "Course package instance"
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            "Varde": "grupp.for.utsokning.forutbildning"
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            "Varde": "true"
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      "UtbildningstyperInomUtbildningstyp": [
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        22,
        101382,
        101378
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    {
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        "en": "Module"
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
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            "Varde": "true"
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            "Varde": "false"
          }
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        "en": "Course"
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      ]
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        "en": "Course instance"
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
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        "en": "Indvidual course instance"
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.forutbildning"
          }
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      "TillfalleInomUtbildningstyper": [
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        "en": "Module without specified scope"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "2007MUAO",
      "LarosateID": -1,
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            "Varde": "grupp.for.utsokning.forskarniva"
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            "Varde": "false"
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            "Varde": "true"
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      },
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    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Individuellt kurstillf\u00e4lle, inresande",
        "en": "Individual course instance, incoming student"
      },
      "Beskrivning": {
        "sv": "Utbildningstypen motsvarar attributen i Individuellt kurstillf\u00e4lle - 2007IKTF, med
      },
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "true"
          },
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            "Varde": "true"
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            "Uid": "e1e91105-9d6b-11e9-b505-4ba9574641db",
            "Varde": "true"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
        ],
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      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [
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        101380
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    {
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        "en": "Course package, Third-cycle"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "2007FAKP",
      "LarosateID": -1,
      "NivaInomStudieordningID": 3,
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            "Varde": "grupp.for.utsokning.forskarniva"
          },
          {
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            "Varde": "true"
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            "Varde": "true"
          }
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        101952,
        101950,
        110915,
        101954
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurspakettillf\u00e4lle, forskarniv\u00e5",
        "en": "Course package instance, Third-cycle"
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      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.forskarniva"
          },
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            "Varde": "true"
          },
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            "Uid": "20ba58ad-0506-11ee-b40a-f28ad46341da",
            "Varde": "true"
          }
        ],
        "Uid": "8831a6c3-6f89-11eb-998b-eb07df7e45d0"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [
        151503
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      "UtbildningstyperInomUtbildningstyp": [
        101953,
        101951,
        107510,
        101952,
        101955,
        110915,
        101954
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Deltagande utan omfattning, forskarniv\u00e5",
        "en": "Participation without scope, third cycle student"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "152631",
      "Kod": "2007FDU",
      "LarosateID": -1,
      "NivaInomStudieordningID": 3,
      "Regelverk": {
        "Regelvarden": [
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            "Uid": "242e4c46-4629-11ec-8ce5-829094194c50",
            "Varde": "true"
          },
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            "Uid": "242e4c45-4629-11ec-8ce5-829094194c50",
            "Varde": "false"
          },
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            "Uid": "242b6611-4629-11ec-8ce5-829094194c50",
            "Varde": "grupp.for.utsokning.forskarniva"
          },
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            "Uid": "242e4c42-4629-11ec-8ce5-829094194c50",
            "Varde": "false"
          },
          {
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            "Uid": "242e4c43-4629-11ec-8ce5-829094194c50",
            "Varde": "false"
          },
          {
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            "Varde": "true"
          }
        ],
        "Uid": "242b6610-4629-11ec-8ce5-829094194c50"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Individuellt tillf\u00e4lle f\u00f6r deltagande utan omfattning, forskarniv\u00e5",
        "en": "Individual course instance for participation without scope, third cycle student"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "152632",
      "Kod": "2007FDUIT",
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        "en": "Course instance for participation without scope, first and second cycle student"
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        "en": "Course package"
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            "Varde": "true"
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        "en": "Module without scope"
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        "en": "Course"
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      "Dolt": false,
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        "en": "Module"
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      "Beskrivning": {},
      "Dolt": false,
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      "LarosateID": -1,
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            "Varde": "false"
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      "StudieordningID": 162110,
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      "UtbildningstyperInomUtbildningstyp": []
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      "Benamning": {
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        "en": "Exchange load instance, outgoing student"
      },
      "Beskrivning": {
        "sv": "Tillagd f\u00f6r konvertering av uppgifter fr\u00e5n Handelsh\u00f6gskolan. "
      },
      "Dolt": false,
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      "Kod": "1993UATTFR",
      "LarosateID": -1,
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      "StudieordningID": 2,
      "TillfalleInomUtbildningstyper": [
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      "UtbildningstyperInomUtbildningstyp": []
    },
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        "en": "Participation without scope"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.forutbildning"
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          {
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            "Varde": "true"
          },
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            "Varde": "false"
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            "Uid": "5411c6d3-e4b5-11f0-b251-01189c9f465b",
            "Varde": "false"
          },
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            "Varde": "false"
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            "Varde": "false"
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        ],
        "Uid": "08337750-e4a6-11f0-b251-01189c9f465b"
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      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
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        "en": "Course instance for participation without scope"
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      "Dolt": false,
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          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "1c513bd8-e4b3-11f0-b251-01189c9f465b",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "1c513bd7-e4b3-11f0-b251-01189c9f465b",
            "Varde": "false"
          }
        ],
        "Uid": "1c513bd5-e4b3-11f0-b251-01189c9f465b"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [
        164114
      ],
      "UtbildningstyperInomUtbildningstyp": []
    }
  ]
}
```

20.24 aktivitetstillfallestyp_JSON

1302 ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def aktivitetstillfallestyp_JSON(self):
    """
    Returns the activity types.
    """
```

```
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/aktivitetstillfallestyp',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1303 ⟨*test functions* 120a⟩+≡

```
def test_aktivitetstillfallestyp_JSON():
  r = ladok.aktivitetstillfallestyp_JSON()
  assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Aktivitetstillfallestyp": [
    {
      "Benamning": {
        "sv": "Digital omtentamen (LIS)",
        "en": "E-examination, resit (LIS)"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "151857",
      "Kod": "GDOT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Digital tentamen (LIS)",
        "en": "E-examination (LIS)"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "151856",
      "Kod": "GDT",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Verksamhetsf\u00f6rlagd utbildning (LIS)",
        "en": "Placement (LIS)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "164128",
      "Kod": "GVFU",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt aktivitetstillf\u00e4lle",
        "en": "Unspecified activity"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "1",
      "Kod": "\u00d6V",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Examination i datorsal - omtentamen",
        "en": "Re-exam, digital on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153882",
      "Kod": "EXDAOMTENTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Examination i datorsal - tentamen",
        "en": "Exam, digital on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153881",
      "Kod": "EXDATENTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Examination i datorsal \u2013 kontrollskrivning",
        "en": "Partial exam, digital on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
```

```
      "ID": "153880",
      "Kod": "EXDATKS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "FX-komplettering",
        "en": "FX-Suppplementary Qualification"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2020-10-05"
      },
      "ID": "150909",
      "Kod": "FX",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Hemtentamen",
        "en": "Unsupervised examination"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153887",
      "Kod": "HEMTENTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Kontrollskrivning",
        "en": "Partial Exam"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-14",
        "Startdatum": "2018-06-20"
      },
      "ID": "135201",
      "Kod": "KS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Muntlig examination",
        "en": "Oral exam"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153886",
      "Kod": "MUNTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Omtentamen",
        "en": "Re-examination"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-14",
        "Startdatum": "2018-06-20"
      },
      "ID": "135200",
      "Kod": "OMTENTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Salsexamination \u2013 kontrollskrivning",
        "en": "Partial exam, written on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153883",
      "Kod": "SALEXKS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Salsexamination - omtentamen",
        "en": "Re-exam, written on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153885",
      "Kod": "SALEXOMTENT",
```

```
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Salsexamination \u2013 tentamen",
        "en": "Exam, written on-campus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2022-06-15"
      },
      "ID": "153884",
      "Kod": "SALEXTENTA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Tentamen",
        "en": "Examination"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-14",
        "Startdatum": "2018-06-20"
      },
      "ID": "135199",
      "Kod": "TENTAMEN",
      "LarosateID": 29
    }
  ]
}
```

20.25 catalog_service_index_JSON

1307a ⟨*LadokSession data methods* 120b⟩+≡

```
# added by GQMJr
def catalog_service_index_JSON(self):
  """
  Returns the catalog service index.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/internal/service/index',
    headers=self.headers).json()
  return r
```

Let's add a test. This should return a dictionary.

1307b ⟨*test functions* 120a⟩+≡

```
def test_catalog_service_index_JSON():
```

```
    r = ladok.catalog_service_index_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "ServiceName": "Ladok3 intern REST-tj\u00e4nst f\u00f6r kataloginformation"
}
```

20.26 omradesbehorighet_JSON

1308a ⟨*LadokSession data methods* 120b⟩+≡

```
  # added by GQMJr
  def omradesbehorighet_JSON(self):
    """
    Returns områdesbehörighet. See

      https://antagning.se/globalassets/omradesbehorigheter-hogskolan.pdf

    for more information.
    """
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/omradesbehorighet',
      headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1308b ⟨*test functions* 120a⟩+≡

```
  def test_omradesbehorighet_JSON():
    r = ladok.omradesbehorighet_JSON()
    assert type(r) == dict
```

This code is used in chunk 115.

The output looks like this:

```
{
  "Omradesbehorighet": [
    {
      "Benamning": {
        "sv": "A1/1",
        "en": "A1/1"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "1",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "1",
      "Kod": "1",
```

```
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A3/3",
        "en": "A3/3"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "3",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "3",
      "Kod": "3",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A5/5",
        "en": "A5/5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "5",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "5",
      "Kod": "5",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A6 a/6 a",
        "en": "A6 a/6 a"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "6 a",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "7",
      "Kod": "6A",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A6 c/6 a",
        "en": "A6 c/6 c"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "6 c",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "9",
      "Kod": "6C",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A8/8",
        "en": "A8/8"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "8",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "11",
      "Kod": "8",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A10/10",
        "en": "A10/10"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "10",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "13",
      "Kod": "10",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A12/12",
        "en": "A12/12"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "12",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
```

```
      },
      "ID": "15",
      "Kod": "12",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A11/14",
        "en": "A11/14"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "14",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "17",
      "Kod": "14",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A14/16",
        "en": "A14/16"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "16",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "19",
      "Kod": "16",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Endast grundl\u00e4ggande beh\u00f6righet",
        "en": "General entry requirements only"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "0",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "0",
      "Kod": "0",
      "LarosateID": -1
    },
    {
```

```
      "Benamning": {
        "sv": "A2/2",
        "en": "A2/2"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "2",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "2",
      "Kod": "2",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A4/4",
        "en": "A4/4"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "4",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "4",
      "Kod": "4",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A6/6",
        "en": "A6/6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "6",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "6",
      "Kod": "6",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A6 b/6 a",
        "en": "A6 b/6 b"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Emilvarde": "6 b",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "8",
      "Kod": "6B",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A7/7",
        "en": "A7/7"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "7",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "10",
      "Kod": "7",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A9/9",
        "en": "A9/9"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "9",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "12",
      "Kod": "9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "A11/11",
        "en": "A11/11"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "11",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "14",
      "Kod": "11",
```

```
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "A13/13",
          "en": "A13/13"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Emilvarde": "13",
        "Giltighetsperiod": {
          "Slutdatum": "2022-06-01"
        },
        "ID": "16",
        "Kod": "13",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "A14/15",
          "en": "A14/15"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Emilvarde": "15",
        "Giltighetsperiod": {
          "Slutdatum": "2022-06-01"
        },
        "ID": "18",
        "Kod": "15",
        "LarosateID": -1
      },
      {
        "Benamning": {
          "sv": "A15/17",
          "en": "A15/17"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Emilvarde": "17",
        "Giltighetsperiod": {
          "Slutdatum": "2022-06-01"
        },
        "ID": "20",
        "Kod": "17",
        "LarosateID": -1
      }
    ]
}
```

Chapter 21

Baltatzis' and Maguire's original `LadokSession` methods

Below are the original `LadokSession` methods by Baltatzis and Maguire. These are merely kept for backwards compatibility.

The one missing is the constructor, that has been replaced by the code above. Also, the code has been adapted to use `self.session` instead of `self.__session` etc.

21.1 `get_results`, `save_result`

1315 ⟨*LadokSession data methods* 1315⟩≡

```
######################################################################
#
# LadokSession
#
# get_results      returnerar en dictionary med momentnamn och resultat
# save_result      sparar resultat för en student som utkast
#
# The original LadokSession code is from Alexander Baltatzis <alba@kth.se> on
# 2020-07-20
#
# I (Gerald Q. Maguire Jr.) have extended on 2020-07-21 and later with the code
# as noted below.
#
# I (Daniel Bosk) adapted (on 2021-01-08) the methods to a refactored
# LadokSession class.

######################################################################
#
# get_results
#
# person_nr          - personnummer, siffror i strängformat
#            t.ex. 19461212-1212
# course_code          - kurskod t.ex. DD1321
#
# RETURNERAR en dictionary från ladok med momentnamn, resultat
```

```
#
# {'LABP': {'date': '2019-01-14', 'grade': 'P', 'status': 'attested'},
#  'LABD': {'date': '2019-03-23', 'grade': 'E', 'status': 'pending(1)'},
#  'TEN1': {'date': '2019-03-13', 'grade': 'F', 'status': 'pending(2)'}}
#
#  status:  kan ha följande värden vilket gissningsvis betyder:
#           attested   - attesterad
#           pending(1) - utkast
#           pending(2) - klarmarkerad
#
def get_results(self, person_nr_raw, course_code):
  person_nr_raw = str(person_nr_raw)
  person_nr =  format_personnummer(person_nr_raw)
  if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

  student_data = self.__get_student_data(person_nr)

  student_course = next(x
    for x in self.__get_student_courses(student_data['id'])
      if x['code'] == course_code)

  # get attested results
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/resultat/studentresultat/attesterade/student/' +
        student_data['id'],
    headers=self.headers).json()

  results_attested_current_course = None
  results = {}  # return value

  for course in r['StudentresultatPerKurs']:
    if course['KursUID'] == student_course['education_id']:
      results_attested_current_course = course['Studentresultat']
      break


  if results_attested_current_course:
    for result in results_attested_current_course:
      try:
          d = { 'grade' : result['Betygsgradskod'],
                'status': 'attested',
                'date'  : result['Examinationsdatum'] }
          results[ result['Utbildningskod'] ] = d
      except:
          pass  # tillgodoräknanden har inga betyg och då är result['Utbildningskod'] == None

  # get pending results
  r = self.session.get(
    url=self.base_gui_proxy_url + '/resultat/resultat/resultat/student/' +
```

```
        student_data['id'] + '/kurs/' + student_course['education_id'] +
          '?resultatstatus=UTKAST&resultatstatus=KLARMARKERAT',
      headers=self.headers).json()

    for result in r['Resultat']:
        r = self.session.get(
          url=self.base_gui_proxy_url + '/resultat/utbildningsinstans/' +
            result['UtbildningsinstansUID'],
          headers=self.headers).json()
        d_grade = result['Betygsgradsobjekt']['Kod']
        d_status = "pending(" + str(result['ProcessStatus']) + ")"
        # utkast har inte datum tydligen ...
        d_date = "0" if 'Examinationsdatum' not in result \
                     else result['Examinationsdatum']
        d = { 'grade' : d_grade ,
              'status': d_status,
              'date'  : d_date      }
        results[ r['Utbildningskod'] ] = d
    return results

##########################################################################
#
# save_result
#
# person_nr           - personnummer, flera format accepteras enligt regex:
#                       (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
# course_code         - kurskod t.ex. DD1321
# course_moment       - ladokmoment/kursbetyg t.ex. TEN1, LAB1, DD1321 (!)
#                       om labmomententet är samma som course_code så sätts kursbetyg!
# result_date         - betygsdatum, flera format accepteras enligt regex
#                       (\d\d)?(\d\d)-?(\d\d)-?(\d\d)
# grade_code          - det betyg som ska sättas
# grade_scale         - betygsskala t.ex. AF eller PF. Möjliga betygsskalor
#                       listas i self.__grade_scales.
#
# RETURNERAR True om det gått bra, kastar (förhoppningsvis) undantag
#            om det går dåligt.
def save_result(self, person_nr_raw, course_code, course_moment,
    result_date_raw, grade_raw, grade_scale):
    if grade_raw in ["AF", "PF"]:
        raise LadokValidationError('Invalid grade: ' + grade_raw + ' looks like a grade_scale')

    if (grade_raw == 'P' and grade_scale == "AF") or \
       (grade_raw in "ABCDE" and grade_scale == "PF"):
      raise LadokValidationError('Invalid grade: ' + grade_raw +
        ' does not match grade_scale ' + grade_scale)

    person_nr =  format_personnummer(person_nr_raw)
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)
```

```
    result_date = self.__validate_date(result_date_raw)
    if not result_date:
      raise LadokValidationError('Invalid grade date: ' + result_date_raw + ' pnr: ' +
        person_nr_raw + ' moment: ' + course_moment)

    student_data = self.__get_student_data(person_nr)
    student_course = next(x
      for x in self.__get_student_courses(student_data['id'])
        if x['code'] == course_code)

    # momentkod = kurskod => vi hanterar kursbetyg
    if course_moment == student_course['code']:
        course_moment_id = student_course['instance_id']
    else:
        for x in self.__get_student_course_moments(student_course['round_id'],
          student_data['id']):
          if x['code'] == course_moment:
            course_moment_id = x['course_moment_id']

    student_course_results = self.__get_student_course_results(
      student_course['round_id'], student_data['id'])

    grade_scale = self.__get_grade_scale_by_code(grade_scale)
    grade = grade_scale.grades(code=grade_raw)[0]

    headers = self.headers.copy()
    headers['Content-Type'] = 'application/vnd.ladok-resultat+json'
    headers['X-XSRF-TOKEN'] = self.__get_xsrf_token()
    headers['Referer'] = self.base_gui_url

    previous_result = None

    for result in student_course_results['results']:
        if result['pending'] is not None:
            if result['pending']['moment_id'] == course_moment_id:
                previous_result = result['pending']
                break

    # uppdatera befintligt utkast
    if previous_result:
        put_data = {
            'Resultat': [{
                'ResultatUID': previous_result['id'],
                'Betygsgrad': grade.id,
                'Noteringar': [],
                'BetygsskalaID': grade_scale.id,
                'Examinationsdatum': result_date,
                'SenasteResultatandring': previous_result['last_modified']
            }]
        }
```

```
        r = self.session.put(
          url=self.base_gui_proxy_url + '/resultat/studieresultat/uppdatera',
          json=put_data,
          headers=headers)

    # lägg in nytt betygsutkast
    else:
        post_data = {
            'Resultat': [{
                'StudieresultatUID': student_course_results['id'],
                'UtbildningsinstansUID': course_moment_id,
                'Betygsgrad': grade.id,
                'Noteringar': [],
                'BetygsskalaID': grade_scale.id,
                'Examinationsdatum': result_date
            }]
        }
        r = self.session.post(
          url=self.base_gui_proxy_url + '/resultat/studieresultat/skapa',
          json=post_data,
          headers=headers)

    if not 'Resultat' in r.json():
      raise LadokServerError("Couldn't register " +
        course_moment + "=" + grade_raw + " " + result_date_raw + ": " +
          r.json()["Meddelande"])

    return True
```

This definition is continued in chunks 1319–23.
Root chunk (not used in this document).

21.2 get_student_data, get_student_name

1319 ⟨*LadokSession data methods* 1315⟩+≡

```
  ##########################################################################
  #
  # get_student_data
  #
  # person_nr           - personnummer, flera format accepteras enligt regex:
  #                       (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
  #
  # RETURNERAR {'id': 'xxxx', 'first_name': 'x', 'last_name': 'y', 'person_nr': 'xxx', 'alive': True}

  def get_student_data(self, person_nr_raw):
    person_nr =  format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)
```

```
    student_data = self.__get_student_data(person_nr)
    return student_data

  ##########################################################################
  #
  # get_student_name
  #
  # person_nr          - personnummer, flera format accepteras enligt regex:
  #                      (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
  #
  # RETURNERAR en dictionary med för- och efternamn
  #
  # {"first_name" : 'Anna', "last_name : 'Andersson'}
  #
  def get_student_name(self, person_nr_raw):
    person_nr =  format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    student_data = self.__get_student_data(person_nr)
    return {
      "first_name": student_data["first_name"],
      "last_name" : student_data["last_name"]
    }
```

21.3 `all_grading_scale`

This is just to maintain the old method name.

1320a ⟨*LadokSession data methods* 1315⟩+≡

```
  # added by GQMJr
  ##########################################################################
  #
  # all_grading_scale
  #
  #
  # RETURNERAR en dictionary of the grading scales
  def all_grading_scale(self):
    return self.get_grade_scales()
```

21.4 `change_locale`

This probably changes the default locale in the LADOK web interface. And that might affect the default languages in responses. Needs testing though.

1320b ⟨*LadokSession data methods* 1315⟩+≡

```
  # added by GQMJr
  ##########################################################################
  #
  # change_locale
```

```
  #
  # lang               - language code 'en' or 'sv', defaults to 'sv'
  #
  # RETURNERAR reponse to the request
  def change_locale(self, lang = 'sv'):
    r = self.session.get(
      url=self.base_gui_url+'/services/i18n/changeLocale?lang='+lang,
      headers=self.headers).json()
    return r
```

21.5 period_info_JSON

This no longer works. We should investigate if there is another API call to get this information.

1321a ⟨*LadokSession data methods* 1315⟩+≡

```
  # added by GQMJr
  ##########################################################################
  #
  # period_info_JSON
  #
  # RETURNERAR JSON of /resultat/grunddata/period
  def period_info_JSON(self):
    r = self.session.get(
      url=self.base_gui_proxy_url + '/resultat/internal/grunddata/period',
      # doesn't work, but also not after adding 'internal/' between 'resultat/'
      # and 'grunddata' /CO
      headers=self.headers).json()
    return r
```

21.6 organisation_by_uid_JSON

1321b ⟨*LadokSession data methods* 1315⟩+≡

```
  # added by GQMJr
  ##########################################################################
  #
  # organisation_by_uid_JSON
  #
  # organisationUid           -- organization's UID
  #
  # RETURNERAR JSON of selected organization
  def organisation_by_uid_JSON(self, organisationUid):
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/organisation/'+organisationUid,
      headers=self.headers).json()
    return r

  # returns:
```

```
# {   'Benamning': {'en': 'EECS/Computer Science', 'sv': 'EECS/Datavetenskap'},
# 'Giltighetsperiod': {'Startdatum': '2019-01-01', 'link': []},
# 'Organisationsenhetstyp': 1,
# 'Organisationskod': 'JH',
# 'Uid': '2474f616-dc41-11e8-8cc1-eaeeb71b497f',
# 'link': [   {   'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-kataloginformation+xm
#                 'method': 'GET',
#                 'rel': 'self',
#                 'uri': 'https://api.ladok.se:443/kataloginformation/organisation/2474f616-dc41-11e8
```

21.7 `examen_student_uid_JSON`

This doesn't work anymore.

1322a ⟨*LadokSession data methods* 1315⟩+≡

```
# added by GQMJr
def examen_student_uid_JSON(self, studentUID):
  """
  Returns the student's degree.
  """
  r = self.session.get(
    url=self.base_gui_proxy_url + 'examen/internal/student/+studentUID',
    headers=self.headers).json()
  return r
```

21.8 `student_participation_JSON`

This doesn't seem to work anymore.

1322b ⟨*LadokSession data methods* 1315⟩+≡

```
# added by GQMJr
def student_participation_JSON (self, studentUID):
  """
  Returns the student's participation in courses.
  """
  headers = self.headers.copy()
  headers['Content-Type'] = 'application/vnd.ladok-studiedeltagande'
  headers['Accept'] += ', application/vnd.ladok-studiedeltagande'
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/studiedeltagande/internal/tillfallesdeltagande' +
      '/kurstillfallesdeltagande/' + studentUID,
    headers=self.headers)
  return r.json()
```

21.9 `hamtaStudieResultatForStudent_JSON`

This doesn't seem to work.

1322c ⟨*LadokSession data methods* 1315⟩+≡

```
  # added by GQMJr
  def hamtaStudieResultatForStudent_JSON (self, studentUID):
    """
    Returns the study results for a student.
    """
    r = self.session.get(url = self.base_gui_proxy_url +
          '/resultat/internal/studieresultat/resultat/student/'+studentUID,
          headers = self.headers).json()
    return r
```

Let's add a test. This function should return a dictionary.

1323a ⟨*test functions* 1323a⟩≡

```
  def test_hamtaStudieResultatForStudent_JSON():
    r = ladok.hamtaStudieResultatForStudent_JSON(student_uid)
    assert type(r) == dict
```

Root chunk (not used in this document).

The output looks like this:

```
{
  "Resultat": []
}
```

21.10 Helper methods

1323b ⟨*LadokSession data methods* 1315⟩+≡

```
  ######################################################################
  ##
  ## private methods
  ##

  def __get_xsrf_token(self):
    return self.xsrf_token

  def get_xsrf_token(self):
    return self.xsrf_token


  # returns None or a LADOK-formated date
  def __validate_date(self, date_raw):
    datregex = re.compile(r"(\d\d)?(\d\d)-?(\d\d)-?(\d\d)")
    dat = datregex.match(date_raw)
    if dat:
      if dat.group(1) == None: # add 20, ladok3 won't survive till 2100
        return "20" + dat.group(2) + "-" + dat.group(3) + "-" + dat.group(4)
      else:
        return dat.group(1) + dat.group(2) + \
          "-" + dat.group(3) + "-" + dat.group(4)
    else:
      return None
```

```
def __get_grade_scale_by_id(self, grade_scale_id):
  return next(grade_scale
    for grade_scale in self.get_grade_scales()
      if grade_scale.id == grade_scale_id)


def __get_grade_scale_by_code(self, grade_scale_code):
  return next(grade_scale
    for grade_scale in self.get_grade_scales()
      if grade_scale.code == grade_scale_code)


def __get_grade_by_id(self, grade_id):
  for grade_scale in self.get_grade_scales():
    for grade in grade_scale.grades():
      if grade.id == grade_id:
        return grade

  return None


def __get_student_data(self, person_nr):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/studentinformation/student/filtrera?limit=2&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC&orderby
        + person_nr + '&skipCount=false&sprakkod=sv',
    headers=self.headers).json()['Resultat']

  if len(r) != 1: return None

  r = r[0]
  # from schemas/schemas.ladok.se-studentinformation.xsd
  #   <xs:complexType name="Student">
  #   <xs:complexContent>
  #     <xs:extension base="base:BaseEntitet">
  #       <xs:sequence>
  #         <xs:element name="Avliden" type="xs:boolean"/>
  #         <xs:element minOccurs="0" name="Efternamn" type="xs:string"/>
  #         <xs:element minOccurs="0" name="ExterntUID" type="xs:string"/>
  #         <xs:element name="FelVidEtableringExternt" type="xs:boolean"/>
  #         <xs:element minOccurs="0" name="Fodelsedata" type="xs:string"/>
  #         <xs:element minOccurs="0" name="Fornamn" type="xs:string"/>
  #         <xs:element minOccurs="0" name="KonID" type="xs:int"/>
  #         <xs:element minOccurs="0" name="Personnummer" type="xs:string"/>
  #         <xs:element minOccurs="0" name="Skyddsstatus" type="xs:string"/>
  #         <xs:element minOccurs="0" ref="si:UnikaIdentifierare"/>
  #       </xs:sequence>
  #     </xs:extension>
  #   </xs:complexContent>
  # </xs:complexType>
```

```
  return {
    'id':         r['Uid'], # Ladok-ID
    'first_name': r['Fornamn'],
    'last_name':  r['Efternamn'],
    'person_nr':  r['Personnummer'], # tolv siffror, utan bindestreck eller plustecken
    'alive':  not r['Avliden']
  }

# detta är egentligen kurstillfällen, inte kurser (ID-numret är alltså ett ID-nummer för ett kurstill
def __get_student_courses(self, student_id):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/studiedeltagande/tillfallesdeltagande/kurstillfallesdeltagande/student/'
       + student_id,
    headers=self.headers).json()

  results = []

  for course in r['Tillfallesdeltaganden']:
    if not course['Nuvarande'] or \
       'Utbildningskod' not in course['Utbildningsinformation']:
      continue

    results.append({
      'id': course['Uid'],
      'round_id': course['Utbildningsinformation']['UtbildningstillfalleUID'], # ett Ladok-ID för kur
      'education_id': course['Utbildningsinformation']['UtbildningUID'], # ett Ladok-ID för något ann
      'instance_id': course['Utbildningsinformation']['UtbildningsinstansUID'], # ett Ladok-ID för at
      'code': course['Utbildningsinformation']['Utbildningskod'], # kurskod KOPPS
      'name': course['Utbildningsinformation']['Benamning']['sv']
    })

  return results


def __get_student_course_moments(self, course_round_id, student_id):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/resultat/kurstillfalle/' + str(course_round_id) +
       '/student/' + str(student_id) + '/moment',
    headers=self.headers).json()

  return [{
    'course_moment_id': moment['UtbildningsinstansUID'],
    'code': moment['Utbildningskod'],
    'education_id': moment['UtbildningUID'],
    'name': moment['Benamning']['sv']
  } for moment in r['IngaendeMoment']]
```

```
def __get_student_course_results(self, course_round_id, student_id):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/resultat/studieresultat/student/' + student_id +
        '/utbildningstillfalle/' + course_round_id,
    headers=self.headers).json()

  return {
    'id': r['Uid'],
    'results': [{
      'education_id': result['UtbildningUID'],
      'pending': {
        'id': result['Arbetsunderlag']['Uid'],
        'moment_id': result['Arbetsunderlag']['UtbildningsinstansUID'],
        'grade': self.__get_grade_by_id(result['Arbetsunderlag']['Betygsgrad']),
        'date': result['Arbetsunderlag']['Examinationsdatum'],
        'grade_scale': self.__get_grade_scale_by_id(result['Arbetsunderlag']['BetygsskalaID']),
        # behövs vid uppdatering av betygsutkast
        'last_modified': result['Arbetsunderlag']['SenasteResultatandring']
      } if 'Arbetsunderlag' in result else None,
      'attested': {
        'id': result['SenastAttesteradeResultat']['Uid'],
        'moment_id': result['SenastAttesteradeResultat']['UtbildningsinstansUID'],
        'grade': self.__get_grade_by_id(result['SenastAttesteradeResultat']['Betygsgrad']),
        'date': result['SenastAttesteradeResultat']['Examinationsdatum'],
        'grade_scale': self.__get_grade_scale_by_id(result['SenastAttesteradeResultat']['BetygsskalaI
      } if 'SenastAttesteradeResultat' in result else None
    } for result in r['ResultatPaUtbildningar']]
  }
```