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* 4a⟩ 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.

4b ⟨*ladok.sh* 4a⟩+≡

```
⟨constants 5a⟩
⟨helper functions 6a⟩

main() {
  ⟨main script 5b⟩
}

# Only run if this is the main script
if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
  main "$@"
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=$(date +%y)
YEARS=$(echo -n "("; \
        seq $((YEAR - 1)) $YEAR \
        | sed -zE "s/\s/|/g" \
        | sed "s/|$/)/")
```

This definition is continued in chunk 7b.
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 this:

[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.

5b ⟨*main script* 5b⟩≡

```
report_components "DD1301 HT${YEARS}" \
                  LAB1
report_components "DD131[057] HT${YEARS}" \
                  "(LAB|MAT|KAL)[1-3]"
report_components "DA2215 [HV]T${YEARS}" \
                  INL1

report_components "DD2520 VT${YEARS}" \
                  INL1
report_components "DD2520 VT${YEARS}" \
                  LAB1 \
                  canvaslms.grades.tilkryLAB1
```

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

Note that the line reporting for DD1310 reports for *all* instances as well—that course is given five times in parallel. But the assessment should be the same so it is sufficient that one of the examiners run this script to report all the results.

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:

```
python3 -m pip install canvaslms # to use it with Python, or
pipx install canvaslms           # to only use the CLI
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).

6a ⟨*helper functions* 6a⟩≡

```
report_components() {
  local course="$1"
  local component="$2"
  local summary_module="$3"

  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 \
  | sed -E "s/ ?[HV]T[0-9]{2}( \(.*\))?//" \
  | ⟨tee the component results to use for course grades 7a⟩ \
  | ladok report -fv # Report them to LADOK.
}
```

This definition is continued in chunk 7.
This code is used in chunk 4b.

2.2 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.

6b ⟨*main script* 5b⟩+≡

```
report_course "DD131[057] HT${YEARS}" \
              LAB3
report_course "DD2520 VT${YEARS}" \
              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.

Setting the course grade can be done in several ways. The first option is to look at what results are already attested in LADOK. Unfortunately, this requires the round code—which we don't have access to[3]. However, we can get this data from the `canvaslms results` line in `report_components`. That's why we want to `tee` that data out of that pipeline.

When we `tee` the data out, we want to use the `-a` option to append if the file already exists. The reason for this is that we want all results for the course in one

[3] For a brief period, IT included the round code in the course title in Canvas at KTH. That was beneficial in many ways, but unfortunately it faced a backlash from teachers and it was undone.

file. But sometimes we might have to run the script several times—once for each component.

7a ⟨ *`tee` the component results to use for course grades* 7a⟩≡
```
tee -a "${DATA_DIR}/${course}-results.csv"
```
This code is used in chunk 6a.

7b ⟨*constants* 5a⟩+≡
```
DATA_DIR=`mktemp -d`
```
This code is used in chunk 4b.

We'll provide a function that takes a course and a component and returns the results for that course and component. If no component is given, we use all components. If we don't have results from before, we report those components to get the data.

7c ⟨*helper functions* 6a⟩+≡
```
component_grades() {
  local course="$1"
  local component="${2:-[A-Z]{3}[0-9]+}"
  local grades="${DATA_DIR}/${course}-results.csv"

  if [[ ! -f "$grades" ]]; then
    report_components "$course" "$component"
  fi
  cat "$grades" \
  | grep -E "\s${component}\s" \
  | sort -u
}
```
This code is used in chunk 4b.

The data we get here has the following columns (tab separated):

```
1 course    component   student   grade   date   graders
```

Now we can use this file when reporting the course grades. If the file doesn't exist, we simply run `report_components`. If the results are not yet attested (certified), the `ladok report` command will simply give an error that all components of the course are not yet attested.

Now it's just to sort out the students and then for each student get the grade of the component, get the latest grade date of all components and finally report to LADOK.

7d ⟨*helper functions* 6a⟩+≡
```
report_course() {
  local course="$1"
  local component="$2"

  for student in $(component_grades "$course" \
                   | cut -f 3)
  do
    local grade=$(component_grades "$course" "$component" \
                  | grep "$student" \
                  | cut -f 4)
    local grade_date=$(component_grades "$course" \
                       | grep "$student" \
```

```
                        | cut -f 5 \
                        | sort \
                        | tail -n 1)

      if [ "$grade" = "" ]; then
        continue
      fi

      local course_code=$(component_grades "$course" "$component" \
                          | grep "$student" \
                          | cut -f 1 \
                          | sort -u)

      # `component code = course code` yields final grade on course.
      ladok report -fv "$course_code" "$course_code" \
                       "$student" "$grade" "$grade_date"
    done
  }
```

This code is used in chunk 4b.

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* 10⟩.
- ⟨*Dockerfile* 11a⟩,
- ⟨*canvas2ladok.py* 11b⟩,

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

10 ⟨*canvas2ladok.mk* 10⟩≡

```
.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.

11a ⟨*Dockerfile* 11a⟩≡

```
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.

11b ⟨*canvas2ladok.py* 11b⟩≡

```
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 13b⟩
⟨functions 12a⟩

def main():
```

⟨*main body* 12d⟩

```
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.

12a ⟨*functions* 12a⟩≡

```
@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 12–15.
This code is used in chunk 11b.

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

12b ⟨*functions* 12a⟩+≡

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

This code is used in chunk 11b.

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.

12c ⟨*functions* 12a⟩+≡

```
def students_results(course, component):
  ⟨produce results for a component 15b⟩
```

This code is used in chunk 11b.

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:

12d ⟨*main body* 12d⟩≡

```
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 11b.

3.5 Putting the results into LADOK

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

13a ⟨*functions* 12a⟩+≡
```
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 11b.

3.6 Producing the list of results

We need the result to have the following data:

13b ⟨*classes* 13b⟩≡
```
Result = collections.namedtuple(
  "Result", ["person_nr", "date", "grade", "grade_scale"])
```
This definition is continued in chunk 13c.
This code is used in chunk 11b.

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.

13c ⟨*classes* 13b⟩+≡
```
Grade = collections.namedtuple("Grade", ["grade", "date"])
```
This code is used in chunk 11b.

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.

14a ⟨*functions* 12a⟩+≡

```
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 11b.

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.

14b ⟨*functions* 12a⟩+≡

```
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 11b.

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.

15a ⟨*functions* 12a⟩+≡

```
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 11b.

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.

15b ⟨*produce results for a component* 15b⟩≡

```
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 12c.

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* 17⟩.

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.

17 ⟨*cli.py* 17⟩≡

```
#!/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* 31a⟩

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

⟨*functions* 18b⟩
⟨*command-line interface* 18a⟩
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.

18a ⟨*command-line interface* 18a⟩≡

```
def main():
  """Run the command-line interface for the ladok command"""
  ⟨process command-line options 19a⟩

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

This code is used in chunk 17.

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.

18b ⟨*functions* 18b⟩≡

```
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 20d, 24c, 26b, 27b, and 30c.
This code is used in chunk 17.

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.

19a ⟨*process command-line options* 19a⟩≡

```
argp = argparse.ArgumentParser(
  description="This is a CLI-ification of LADOK3's web GUI.",
  epilog="Web: https://github.com/dbosk/ladok3"
)
⟨add global configuration options 22c⟩
subp = argp.add_subparsers(
  title="commands",
  dest="command",
  required=True
)
⟨add subparsers to subp 24a⟩
argcomplete.autocomplete(argp)
args = argp.parse_args()
⟨create or restore the LadokSession ls 20a⟩
⟨execute subcommand 19b⟩
⟨save LadokSession ls 20b⟩
```

This code is used in chunk 18a.

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`.

19b ⟨*execute subcommand* 19b⟩≡

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

This code is used in chunk 19a.

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.

20a ⟨*create or restore the LadokSession ls* 20a⟩≡

```
LADOK_INST, LADOK_VARS = load_credentials(args.config_file)
try:
  ls = restore_ladok_session(LADOK_VARS)
⟨handle exceptions during restore of ls 20c⟩
if not ls:
  ls = ladok3.LadokSession(LADOK_INST, vars=LADOK_VARS)
```

This code is used in chunk 19a.

20b ⟨*save LadokSession ls* 20b⟩≡

```
store_ladok_session(ls, LADOK_VARS)
```

This code is used in chunk 19a.

Now, if there is an error from `restore_ladok_session`, we know that there is a session that should be loaded. If there is no previous session, it will just return `None`. In the event of an exception, we know that either the credentials aren't available to decrypt it or the file is corrupted. In either case, we should tell the user.

20c ⟨*handle exceptions during restore of ls* 20c⟩≡

```
except ValueError as error:
  err(-1, f"Couldn't restore LADOK session: {error}")
```

This code is used in chunk 20a.

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).

20d ⟨*functions* 18b⟩+≡

```
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 21a⟩

    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 21b⟩
        if pickled_ls:
          return pickle.loads(pickled_ls)

    return None
```

This code is used in chunk 17.

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.

21a ⟨*encrypt pickled ls* 21a⟩≡

```
  ⟨set up kdf and derive key from credentials 22a⟩

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

This code is used in chunk 20d.

21b ⟨*decrypt encrypted ls* 21b⟩≡

⟨set up kdf and derive key from credentials 22a⟩

```
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 20d.

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

22a ⟨set up kdf and derive key from credentials 22a⟩≡

```
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 22b⟩
else:
  ⟨get salt and passwd from credentials list 22b⟩

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 21.

22b ⟨get salt and passwd from credentials list 22b⟩≡

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

This code is used in chunk 22a.

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.

22c ⟨add global configuration options 22c⟩≡

```
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 19a.

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.

23 ⟨*login description* 23⟩≡

```
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.
```

This code is used in chunk 24a.

24a ⟨*add subparsers to subp* 24a⟩≡

```
  login_parser = subp.add_parser("login",
    help="Manage login credentials",
    formatter_class=argparse.RawDescriptionHelpFormatter,
    description=f"""
  ⟨login description 23⟩
  """)

  login_parser.set_defaults(func=update_credentials_in_keyring)
```

This definition is continued in chunks 30 and 31.
This code is used in chunk 19a.

4.5.1 Updating the credentials in the keyring

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

24b ⟨*login prompt* 24b⟩≡

```
  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 24c.

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

24c ⟨*functions* 18b⟩+≡

```
  def update_credentials_in_keyring(ls, args):
    print("""
  ⟨login prompt 24b⟩
  """)
    while True:
      institution = input("Institution: ")
      ⟨check that institution uniquely identifies on SeamlessAccess 25b⟩

    vars = {
      "username": input("Institution username: "),
```

```
    "password": getpass.getpass("Institution password: [input is hidden] ")
  }
  ⟨try to log into LADOK to verify credentials or update vars 26a⟩

  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 25a⟩

  clear_cache(ls, args)
```

This code is used in chunk 17.

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"]`.

25a ⟨*print error message about keyring* 25a⟩≡

```
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 24c.

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.

25b ⟨*check that institution uniquely identifies on SeamlessAccess* 25b⟩≡

```
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 24c.

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.

26a ⟨*try to log into LADOK to verify credentials or update vars* 26a⟩≡

```
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 24c.

26b ⟨*functions* 18b⟩+≡

```
def adjust_vars(vars, form_variables):
  print("""
⟨user instructions to adapt variable names and values 26c⟩
""")
  input("\nPress return to continue.\n")

  ⟨adjust vars using variables from err 27a⟩
```

This code is used in chunk 17.

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.

26c ⟨*user instructions to adapt variable names and values* 26c⟩≡

```
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 26b.

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.

27a ⟨*adjust vars using variables from err* 27a⟩≡

```
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 26b.

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.)

27b ⟨*functions* 18b⟩+≡

```
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 28a⟩
  ⟨fetch username and password from environment 28b⟩
  ⟨fetch vars from environment 28c⟩
  ⟨fetch vars from config file 29a⟩
  ⟨fetch vars from keyring 29b⟩
  ⟨fetch username and password from keyring 29c⟩

  return None, None
```

This code is used in chunk 17.

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.

28a ⟨*fetch institution from environment* 28a⟩≡
```
try:
  institution = os.environ["LADOK_INST"]
except:
  institution = "KTH Royal Institute of Technology"
```
This code is used in chunk 27b.

28b ⟨*fetch username and password from environment* 28b⟩≡
```
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 27b.

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.

28c ⟨*fetch vars from environment* 28c⟩≡
```
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 28d⟩

  if institution and vars:
    return institution, vars
except:
  pass
```
This code is used in chunk 27b.

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.

28d ⟨*print warning about missing variable in LADOK_VARS* 28d⟩≡
```
warn(f"Variable {key} not set, ignoring.")
```
This code is used in chunk 28c.

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`.

29a ⟨*fetch vars from config file* 29a⟩≡

```
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 27b.

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.

29b ⟨*fetch vars from keyring* 29b⟩≡

```
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 27b.

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

29c ⟨*fetch username and password from keyring* 29c⟩≡

```
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 27b.

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.

30a ⟨*add subparsers to subp* 24a⟩+≡
```
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 30b⟩
```
This code is used in chunk 19a.

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.

30b ⟨*add subcommands to cache command* 30b⟩≡
```
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 30a.

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.

30c ⟨*functions* 18b⟩+≡
```
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 17.

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* 24a⟩. 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.

31a ⟨*modules* 31a⟩≡
```
import ladok3.data
```
This definition is continued in chunk 31.
This code is used in chunk 17.

31b ⟨*add subparsers to subp* 24a⟩+≡
```
ladok3.data.add_command_options(subp)
```
This code is used in chunk 19a.

We add the `report` command.

31c ⟨*modules* 31a⟩+≡
```
import ladok3.report
```
This code is used in chunk 17.

31d ⟨*add subparsers to subp* 24a⟩+≡
```
ladok3.report.add_command_options(subp)
```
This code is used in chunk 19a.

We add the `student` command.

31e ⟨*modules* 31a⟩+≡
```
import ladok3.student
```
This code is used in chunk 17.

31f ⟨*add subparsers to subp* 24a⟩+≡
```
ladok3.student.add_command_options(subp)
```
This code is used in chunk 19a.

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* 33a⟩) 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.

33a ⟨*data.py* 33a⟩≡

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

⟨functions 34c⟩

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 33b⟩
  ⟨add data command arguments to data parser 34b⟩

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 34a⟩
```

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`.

33b ⟨*add data parser to parser* 33b⟩≡

```
data_parser = parser.add_parser("course",
  help="Returns course results data in CSV form",
  description="""
Returns the results in CSV form for all first-time registered students.
""".strip())
data_parser.set_defaults(func=command)
```

This code is used in chunk 33a.

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.

34a ⟨*produce data about course specified in args* 34a⟩≡

```
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 33a.

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

34b ⟨*add data command arguments to data parser* 34b⟩≡

```
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 35a, 36b, 38c, and 39b.
This code is used in chunk 33a.

We filter the rounds.

34c ⟨*functions* 34c⟩≡

```
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 35b, 37, 39, and 40.
This code is used in chunk 33a.

We need a list of desired rounds.

35a ⟨*add data command arguments to data parser* 34b⟩+≡
```
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 33a.

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`.

35b ⟨*functions* 34c⟩+≡
```
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 36c⟩
  ⟨get the results for the course round 36d⟩

  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 39c⟩

    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 38b⟩

    ⟨yield student, component, grade and date 36a⟩
```

This code is used in chunk 33a.

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.

36a ⟨*yield* `student, component, grade` *and date* 36a⟩≡

```
  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 35b.

36b ⟨*add data command arguments to data parser* 34b⟩+≡

```
  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 33a.

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.

36c ⟨*compute start and length of the course* 36c⟩≡

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

This code is used in chunk 35b.

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.

36d ⟨*get the results for the course round* 36d⟩≡

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

```
    course_round.round_id, component.instance_id)
```

This code is used in chunk 35b.

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.

37a ⟨*functions* 34c⟩+≡

```
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 33a.

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

37b ⟨*functions* 34c⟩+≡

```
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 37c⟩
    ⟨check component code in result data 38a⟩
    return result_data

  return None
```

This code is used in chunk 33a.

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.

37c ⟨*get the component result data* 37c⟩≡

```
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 37b.

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.

38a ⟨*check component code in result data* 38a⟩≡

```
if component.instance_id != result_data["UtbildningsinstansUID"]:
  continue
```

This code is used in chunk 37b.

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.

38b ⟨*extract grade and normalized date from result data* 38b⟩≡

```
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 35b.

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

38c ⟨*add data command arguments to data parser* 34b⟩+≡

```
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 33a.

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.

39a ⟨*functions* 34c⟩+≡
```
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 33a.

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

39b ⟨*add data command arguments to data parser* 34b⟩+≡
```
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.")
```
This code is used in chunk 33a.

5.4 Which students to exclude

However, we don't want to include all students. We check if a student should be included or not.

39c ⟨*determine if student should be included* 39c⟩≡
```
if not should_include(ladok, student, course_round, student_results):
  continue
```
This code is used in chunk 35b.

We want to filter out some values from the data. We only want to keep students who are registered on the course the first time and who doesn't have any credit transfer on the course.

39d ⟨*functions* 34c⟩+≡
```
def should_include(ladok, student, course_round, result):
  """Returns True if student should be included, False if to be excluded"""
```

```
    if is_reregistered(ladok, student.ladok_id, course_round):
      return False

    if has_credit_transfer(result):
      return False

    return True
```

This code is used in chunk 33a.

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.

40a ⟨*functions* 34c⟩+≡

```
  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 33a.

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

40b ⟨*functions* 34c⟩+≡

```
  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 33a.

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.

41 ⟨*report.py* 41⟩≡

```
import csv
import datetime
import ladok3
import sys

⟨functions 42b⟩

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 42a⟩

  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 47d⟩
```

Root chunk (not used in this document).

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

42a ⟨add report command arguments to report parser 42a⟩≡

```
  one_parser = report_parser.add_argument_group(
    "one result as positional args, only date is optional")
  ⟨add one result group arguments 46a⟩
  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 43d⟩
```

This definition is continued in chunk 43b.
This code is used in chunk 41.

6.2 Report the results

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

42b ⟨functions 42b⟩≡

```
  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 47c⟩

  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* 43c⟩

This definition is continued in chunk 44d.
This code is used in chunk 41.

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.

43a ⟨*finalize option help* 43a⟩≡

```
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 43b.

43b ⟨*add report command arguments to report parser* 42a⟩+≡

```
report_parser.add_argument("-f", "--finalize",
  help="""⟨finalize option help 43a⟩""",
  action="store_true",
  default=False
)
```

This code is used in chunk 41.

6.3 Report many results given in standard input

We want to read CSV data from standard input.

43c ⟨*report results given in stdin* 43c⟩≡

```
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 44b⟩
```

This code is used in chunk 42b.

We need to add an argument for the delimiter.

43d ⟨*add many results group arguments* 43d⟩≡

```
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 44a.
This code is used in chunk 42a.

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.

44a ⟨*add many results group arguments* 43d⟩+≡
```
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 42a.

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

44b ⟨*report a result read from stdin* 44b⟩≡
```
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 44c⟩
  print(f"{course_code} {component_code}={grade} ({date}) {student}: "
        f"{err}",
        file=sys.stderr)
```
This code is used in chunk 43c.

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.

44c ⟨*try to resolve student from ladok using student_id* 44c⟩≡
```
try:
  student = ladok.get_student(student_id)
except Exception:
  student = student_id
```
This code is used in chunks 44b and 47c.

When we set the grade, there are a few cases that should be handled. If the grade isn't attested, we try to change it. (This might still fail if the grade is finalized but not attested.) If we've selected the verbose option, then we print what we have reported.

If the grade was attested, then we check if it's different. If it's different, we output this. 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.

44d ⟨*functions* 42b⟩+≡
```
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 45a⟩
    ⟨get component from course and component_code 45b⟩

    if not component.attested and component.grade != grade:
      ⟨ensure date is a valid date for course 45c⟩
      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)}.")
    elif component.grade != grade:
      raise LadokValidationError(f"attested {component.component} "
                      f"result {component.grade} ({component.date}) "
                      f"is different from {grade} ({date}).")
```

This code is used in chunk 41.

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.

45a ⟨get course from student and course_code 45a⟩≡

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

This code is used in chunk 44d.

45b ⟨get component from course and component_code 45b⟩≡

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

This code is used in chunk 44d.

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.

45c ⟨ensure date is a valid date for course 45c⟩≡

```
  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 44d.

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.

46a ⟨*add one result group arguments* 46a⟩≡

```
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 47.
This code is used in chunk 42a.

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.

46b ⟨*check that we got all positional arguments* 46b⟩≡

```
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 47c.

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.

47a ⟨*add one result group arguments* 46a⟩+≡
```
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 42a.

Finally, we have the list of graders.

47b ⟨*add one result group arguments* 46a⟩+≡
```
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 42a.

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

47c ⟨*report results given in args* 47c⟩≡
```
⟨check that we got all positional arguments 46b⟩
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 44c⟩
  print(f"{args.course_code} {args.component_code}={args.grade} ({args.date}) "
        f"{student}: {err}",
        file=sys.stderr)
```
This code is used in chunk 42b.

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.

47d ⟨*report results depending on args* 47d⟩≡
```
if args.course_code:
  report_one_result(ladok, args)
else:
  report_many_results(ladok, args)
```
This code is used in chunk 41.

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.

48 ⟨*student.py* 48⟩≡

```
import csv
import ladok3.cli

⟨functions 50c⟩

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 49a⟩

  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 50b⟩
```

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.

49a ⟨add student command arguments to student parser 49a⟩≡

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

This definition is continued in chunks 49 and 50a.
This code is used in chunk 48.

7.2.2 An optional course identifier

We also want an option for the course code.

49b ⟨add student command arguments to student parser 49a⟩+≡

```
  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 48.

7.2.3 A results flag

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

49c ⟨add student command arguments to student parser 49a⟩+≡

```
  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 48.

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).

50a ⟨*add student command arguments to student parser* 49a⟩+≡
```
student_parser.add_argument("--contact",
  action="store_true", default=False,
  help="Include contact information (email, phone, address)."
)
```
This code is used in chunk 48.

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.

50b ⟨*print info depending on args* 50b⟩≡
```
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 48.

7.3.1 Printing personal student data

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

50c ⟨*functions* 50c⟩≡
```
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 51a⟩
  ⟨print contact info if requested 51c⟩
```
This definition is continued in chunk 51d.

This code is used in chunk 48.

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

51a ⟨*print info about suspensions for* `student` 51a⟩≡
```
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 51b.
This code is used in chunk 50c.

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.

51b ⟨*print info about suspensions for* `student` 51a⟩+≡
```
if student.suspensions:
  print(f"Suspenions:   ", end="")
  for suspension in student.suspensions:
    print(f"{suspension}", end="\n              ")
  print()
```
This code is used in chunk 50c.

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

51c ⟨*print contact info if requested* 51c⟩≡
```
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 50c.

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.

51d ⟨*functions* 50c⟩+≡
```
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 48.

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* 56⟩ and some helper functions in ⟨*functions* 63⟩.

54a ⟨*ladok3.py* 54a⟩≡

```
"""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

⟨classes 56⟩
⟨functions 63⟩
```

Root chunk (not used in this document).

We also provide tests for all functionality in ⟨*test ladok3.py* 54b⟩. These illustrate how to the `ladok3` module and provide testing using `pytest`.

54b ⟨*test ladok3.py* 54b⟩≡

```
import json
import ladok3
import os
import weblogin.kth

⟨test functions 57a⟩
```

Root chunk (not used in this document).

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.

We can use the class 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 that 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

56 ⟨*classes* 56⟩≡

```
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):
    """
    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.
    - `test_environment` specifies whether we should use LADOK's test
      environment instead of the production environment.
    """
    self.__session = None
    ⟨construct the session object from the autologin handlers 57b⟩
    ⟨LadokSession constructor body 62⟩

  @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* 67⟩

This definition is continued in chunks 59–61, 68, 69, 73a, 78c, 81, 88, 91, and 93c.
This code is used in chunk 54a.

Now let's test this class. We will use the KTH version to log in. KTH needs the LADOK SSO handler (specifying KTH), the KTH SAML server handler (to handle the SSO request) and the KTH UG server (the actual login server).

57a ⟨*test functions* 57a⟩≡

```
ladok = ladok3.LadokSession(
        os.environ["LADOK_INST"],
        vars={"username": os.environ["LADOK_USER"],
              "password": os.environ["LADOK_PASS"]},
        test_environment=True) # for experiments

def test_LadokSession_vars():
  assert ladok.user_info_JSON()

def test_LadokSession_autologin_handlers():
  ladok_handlers = 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

  assert ladok_handlers.user_info_JSON()
```

This definition is continued in chunks 64–66.
This code is used in chunk 54b.

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.

57b ⟨*construct the session object from the autologin handlers* 57b⟩≡

```
if not vars:
  vars = {}
if not autologin_handlers:
  autologin_handlers = []

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

```
self.__session = weblogin.AutologinSession(autologin_handlers)
⟨configure retry policy for the session 59a⟩
```

This code is used in chunk 56.

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 $\{\text{backoff factor}\} \times 2^{(\text{retry number}-1)}$ 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).

59a ⟨*configure retry policy for the session* 59a⟩≡
```
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 57b.

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.

59b ⟨*classes* 56⟩+≡
```
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 61a⟩

  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 54a.

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.

60a ⟨*function* 60a⟩≡

```
  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`.

60b ⟨*classes* 56⟩+≡

```
  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 54a.

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.

61a ⟨*set up read-only properties* 61a⟩≡

```
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 59b.

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`).

61b ⟨*classes* 56⟩+≡

```
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 54a.

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.

62 ⟨*LadokSession constructor body* 62⟩≡

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

This code is used in chunk 56.

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

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

63 ⟨*functions* 63⟩≡

```
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 64–66 and 73b.
This code is used in chunk 54a.

We test this function with the following tests.

64a ⟨*test functions* 57a⟩+≡

```
  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 54b.

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.

64b ⟨*functions* 63⟩+≡

```
  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 54a.

We test this function with the following tests.

65a ⟨*test functions* 57a⟩+≡

```
  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 54b.

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$`.

65b ⟨*functions* 63⟩+≡

```
  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 54a.

We test this function with the following tests.

66a ⟨*test functions* 57a⟩+≡

```
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 54b.

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`.

66b ⟨*functions* 63⟩+≡

```
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 54a.

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.

67 ⟨*LadokSession data methods* 67⟩≡

```
@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 72 and 80.
This code is used in chunk 56.

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.

68 ⟨*classes* 56⟩+≡

```
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 70a⟩

  def __iter__(self):
    ⟨iterate over grades in grading scale 70b⟩
```

This code is used in chunk 54a.

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.

69 ⟨*classes* 56⟩+≡

```
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 54a.

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

70a ⟨*test if grade is in grading scale* 70a⟩≡

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

This code is used in chunk 68.

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.

70b ⟨*iterate over grades in grading scale* 70b⟩≡

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

This code is used in chunk 68.

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.

72 ⟨*LadokSession data methods* 67⟩+≡

```
@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 56.

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`.

73a ⟨*classes* 56⟩+≡

```
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 75a⟩

  ⟨student attribute methods 74⟩
```

This code is used in chunk 54a.

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.

73b ⟨*functions* 63⟩+≡

```
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 54a.

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.

74 ⟨*student attribute methods* 74⟩≡

```
def __get_personal_attributes(self):
  """Helper method that fetches personal attributes"""
  ⟨pull student attributes from LADOK 75b⟩

@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* 75c⟩

This definition is continued in chunks 77 and 79.
This code is used in chunk 73a.

Then we can call that method to update all attributes.

75a ⟨*pull all attributes from LADOK* 75a⟩≡

```
  self.__get_personal_attributes()
```

This definition is continued in chunk 78a.
This code is used in chunk 73a.

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.

75b ⟨*pull student attributes from LADOK* 75b⟩≡

```
  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 74.

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.

75c ⟨*student contact attribute methods* 75c⟩≡

```
  @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 76⟩
```

This code is used in chunks 74 and 77a.

76 ⟨*pull student contact attributes from LADOK* 76⟩≡

```
  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 75c.

77a ⟨*student attribute methods* 74⟩+≡
⟨*student contact attribute methods* 75c⟩

This code is used in chunk 73a.

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.

77b ⟨*student attribute methods* 74⟩+≡

```
  def __get_study_attributes(self):
    """Helper method to fetch study related attributes"""
    ⟨create a list of the student's course objects 78b⟩

  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 73a.

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

78a ⟨*pull all attributes from LADOK* 75a⟩+≡
```
self.__get_study_attributes()
```
This code is used in chunk 73a.

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

78b ⟨*create a list of the student's course objects* 78b⟩≡
```
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 77b.

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.

78c ⟨*classes* 56⟩+≡
```
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 54a.

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

79 ⟨*student attribute methods* 74⟩+≡

```
  @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 73a.

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.

80 ⟨*LadokSession data methods* 67⟩+≡

```
  @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 56.

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": "2474f616-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).

81 ⟨*classes* 56⟩+≡

```
  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 83a⟩

  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 82⟩

    @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 89⟩
```

This code is used in chunk 54a.

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.

82 ⟨*prepare kwargs and call CourseInstance constructor* 82⟩≡

```
  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 81.

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.

83a ⟨*CourseInstance methods* 83a⟩≡

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

  ⟨CourseInstance constructor body 85a⟩
```

This definition is continued in chunks 85b and 86d.
This code is used in chunk 81.

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.)

83b ⟨*fetch CourseInstance data from LADOK* 83b⟩≡

```
data = self.ladok.course_round_components_JSON(self.round_id)
```

This code is used in chunk 85b.

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": {
```

```
79      "sv": "Kvartsfart",
80      "en": "One-quarter-time"
81    },
82    "Takt": 25,
83    "Undervisningsformbenamning": {
84      "sv": "Normal",
85      "en": "Normal teaching"
86    },
87    "UtbildningUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
88    "UtbildningsinstansUID": "9f30cc02-d6b5-11e8-8fd5-cf9d2c5c41ba",
89    "Utbildningskod": "DD1315",
90    "Versionsnummer": 2
91  }
```

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.

85a ⟨*CourseInstance constructor body* 85a⟩≡

```
try:
  self.__assign_attr(kwargs)
except:
  self.__pull_attributes()
```

This code is used in chunk 83a.

85b ⟨*CourseInstance methods* 83a⟩+≡

```
def __assign_attr(self, data):
  ⟨assign CourseInstance data to private attributes 86b⟩

def __pull_attributes(self):
  ⟨fetch CourseInstance data from LADOK 83b⟩
  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 86c⟩
```

This code is used in chunk 81.

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.

86a ⟨*assign common CourseInstance data to private attributes* 86a⟩≡

```
self.__components = []
⟨add course components to self.__components 87a⟩
```

This code is used in chunk 86.

86b ⟨*assign CourseInstance data to private attributes* 86b⟩≡

```
⟨assign common CourseInstance data to private attributes 86a⟩

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 85b.

86c ⟨*assign faux CourseInstance data to private attributes* 86c⟩≡

```
⟨assign common CourseInstance data to private attributes 86a⟩

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 85b.

Finally, we want to have properties to access the private attributes.

86d ⟨*CourseInstance methods* 83a⟩+≡

```
@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 81.

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.

87a ⟨*add course components to* `self.__components` 87a⟩≡

```
  if "IngaendeMoment" in data:
    self.__components += [CourseComponent(
        ladok=self.ladok, course=self,
        **component) for component in data["IngaendeMoment"]]
```

This definition is continued in chunk 87b.
This code is used in chunk 86a.

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.

87b ⟨*add course components to* `self.__components` 87a⟩+≡

```
  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 86a.

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.

88 ⟨*classes* 56⟩+≡

```
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 54a.

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.

89 ⟨*CourseRound data methods* 89⟩≡

```
  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 90.
This code is used in chunk 81.

To fetch the results from LADOK, we must do the following query.

90a ⟨*CourseRound data methods* 89⟩+≡

```
  def __fetch_results(self):
    raise NotImplementedError(
      f"{type(self).__name__}.__fetch_results not implemented")
```

This code is used in chunk 81.

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.

90b ⟨*CourseRound data methods* 89⟩+≡

```
  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 81.

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.

90c ⟨*CourseRound data methods* 89⟩+≡

```
  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 81.

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.

91 ⟨*classes* 56⟩+≡

```
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 92⟩
    ⟨add new CourseResult objects for missing components 93b⟩

  def push(self):
    """Pushes any new results"""
    for result in self.results():
      result.push()
```

This code is used in chunk 54a.

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.)

92 ⟨*pull existing CourseResult objects from LADOK* 92⟩≡

```
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 93a.
This code is used in chunk 91.

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()`.)

93a ⟨*pull existing CourseResult objects from LADOK* 92⟩+≡

```
  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 91.

Now we can see which components from `self.components` are missing from `self.__results` and just add empty results for those.

93b ⟨*add new CourseResult objects for missing components* 93b⟩≡

```
  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 91.

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.

93c ⟨*classes* 56⟩+≡

```
  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
      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
        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 96a⟩
    else:
      ⟨populate CourseResult attributes from data 95⟩

  @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")

    ⟨set the grade for CourseResult 96b⟩

    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 97c⟩

  @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

  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 97a⟩
    else:
      ⟨push the new CourseResult grade data to LADOK 97b⟩
    self.__modified = False
```

This code is used in chunk 54a.

If we get the data from LADOK, then we can fill in all the attributes.

95 ⟨populate CourseResult attributes from data 95⟩≡

```
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)

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 93c.

However, if this is a completely new result, it doesn't exist in LADOK. Then we lack quite a few of the attributes.

96a ⟨*populate CourseResult attributes for empty result* 96a⟩≡

```
self.__uid = None
self.__instance_id = self.__component.instance_id

self.__date = None
self.__grade_scale = self.__component.grade_scale
self.__grade = None

self.__modified = False
self.__last_modified = None
```

This code is used in chunk 93c.

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.

96b ⟨*set the grade for CourseResult* 96b⟩≡

```
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 93c.

14.2.2 Working with existing results

To push an updated result to LADOK, we do the following.

97a ⟨*push the existing CourseResult grade data to LADOK* 97a⟩≡

```
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 93c.

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.

97b ⟨*push the new CourseResult grade data to LADOK* 97b⟩≡

```
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 93c.

14.2.4 Finalizing a result

When we finalize the result, we must know who reported the result.

97c ⟨*finalize the grade for CourseResult* 97c⟩≡

```
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 93c.

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.

100 ⟨*test api.py* 100⟩≡

```
import json
import ladok3
import ladok3.cli
import os

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

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 110b⟩
```

Root chunk (not used in this document).

We will then add `test_X()` functions in the ⟨*test functions* 110b⟩ 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:

102 ⟨*classes* 102⟩≡

```
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.

104a ⟨*LadokSession constructor body* 104a⟩≡
```
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 104b and 108a.
Root chunk (not used in this document).

We also set the headers that we will accept.

104b ⟨*LadokSession constructor body* 104a⟩+≡
```
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.

104c ⟨*LadokSession data methods* 104c⟩≡
```
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* 108b⟩

```
    response = self.session.get(
      url=self.base_gui_proxy_url + path,
      headers=headers)

    if response.ok:
      return response.json()
    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()
    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()
  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 107, 110a, 129–33, 319a, 323a, 339a, 342, 344a, 345, 388, 390a, 391, 393, 396, 399, 401, 409, 411, 413–20, 422a, 434a, 518a, 519a, 527a, 646a, 738a, 813a, 866, 868, 872a, 874a, 1003a, 1005a, 1048, 1078, 1106a, 1112, 1114a, 1120, 1124a, 1137, 1152a, 1279a, and 1284.
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.

107 ⟨*LadokSession data methods* 104c⟩+≡

```
  @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 108c⟩

    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.

108a ⟨*LadokSession constructor body* 104a⟩+≡
```
self.__access_time = None
self.__timeout = datetime.timedelta(minutes=15)
```

108b ⟨*record time of request* 108b⟩≡
```
self.__access_time = datetime.datetime.now()
```
This code is used in chunks 104c and 108c.

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.

108c ⟨*ensure the XSRF token is fresh* 108c⟩≡
```
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 108b⟩
```
This code is used in chunk 107.

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.

108d ⟨*functions* 108d⟩≡
```
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
```
This definition is continued in chunk 109.
Root chunk (not used in this document).

The `remove_links` functions removes the `link` key–value pairs. The `link` values contains URLs for all requests that data are based on.

109a ⟨*functions* 108d⟩+≡

```
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.

109b ⟨*functions* 108d⟩+≡

```
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.

110a ⟨*LadokSession data methods* 104c⟩+≡

```
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.)

110b ⟨*test functions* 110b⟩≡

```
def test_grade_scales_JSON():
  assert ladok.grade_scales_JSON()
```

This definition is continued in chunks 130–33, 319b, 323b, 339b, 343, 344b, 346, 389, 390b, 392, 394, 397, 400, 402, 410, 412–17, 419–22, 434b, 518b, 519b, 527b, 646b, 738b, 813b, 867, 869, 872b, 874b, 1003b, 1005b, 1049, 1079, 1106b, 1113, 1114b, 1121, 1124b, 1138, 1152b, 1279b, and 1284.
This code is used in chunk 100.

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.)

129 ⟨*LadokSession data methods* 104c⟩+≡

```
  ########################################################################
  #
  # 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.

130a ⟨*test functions* 110b⟩+≡

```
  def test_get_student_data_JSON():
    assert ladok.get_student_data_JSON("8506097891")
```

This code is used in chunk 100.

We also have the corresponding for LADOK's UID, which fetches the record directly.

130b ⟨*LadokSession data methods* 104c⟩+≡

```
  ########################################################################
  #
  # 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.

131a ⟨*test functions* 110b⟩+≡

```
def test_get_student_data_by_uid_JSON():
  assert ladok.get_student_data_by_uid_JSON(student_uid)
```

This code is used in chunk 100.

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": "2026-07-12",
  "Fornamn": "Student",
  "KonID": 2,
  "Personnummer": "191234561234",
  "SenastAndradAv": "system@ladokintern",
  "SenastSparad": "2025-07-09T21:00:36.835",
  "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.

131b ⟨*LadokSession data methods* 104c⟩+≡

```
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.

132a ⟨*test functions* 110b⟩+≡

```
def test_get_student_contact_data_JSON():
  assert ladok.get_student_contact_data_JSON(student_uid)
```

This code is used in chunk 100.

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.

132b ⟨*LadokSession data methods* 104c⟩+≡

```
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.

133a ⟨*test functions* 110b⟩+≡

```
  def test_get_student_suspensions_JSON():
    assert ladok.get_student_suspensions_JSON(student_uid)
```

This code is used in chunk 100.

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.

133b ⟨*LadokSession data methods* 104c⟩+≡

```
  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.

133c ⟨*test functions* 110b⟩+≡

```
  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 100.

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"
          },
          {
            "Index": 8,
            "Omfattningsvarde": "0.0",
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        "UtbildningsPeriodTill": "2018-06-04"
      }
    ],
    "Sparrad": false,
    "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
    "SummeradGodkandOmfattning": "5.0",
    "SummeradHeltTillgodoraknadOmfattning": "0.0",
    "SummeradTillgodoraknadOmfattning": "0.0",
    "TillstandKurs": {
```

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      "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
      "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
      "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
    },
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    "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": [
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          "Omfattningsvarde": "5.0",
          "Slutdatum": "2018-06-04",
          "Startdatum": "2018-03-19",
          "Uid": "5453634a-7ddf-11e8-9a5f-3c9998814fb7"
        }
      ],
      "Studielokalisering": {
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        "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,
      "Kod": "2007FKURS",
      "RegelverkForUtbildningstyp": {
        "Regelvarden": [
```

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            {
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              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
              "Varde": "true"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
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  },
  {
    "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": {
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          "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",
```

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    "TillstandKurs": {
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      "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": [
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          "Omfattningsvarde": "5.0",
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          "Startdatum": "2019-08-26",
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        }
      ],
      "Studielokalisering": {
        "sv": "KTH Campus",
        "en": "KTH Campus"
      },
      "Studielokaliseringrepresentation": {
        "Benamningar": {
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          "en": "KTH Campus"
        },
        "Giltighetsperiod": {
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        "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": {
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        "sv": "Normal",
        "en": "Normal teaching"
      },
      "Giltighetsperiod": {},
      "ID": 1
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    "UtbildningensOmfattningsvarde": "5.0",
    "UtbildningsinstansUID": "1a166069-8c10-11e9-be70-a303c1114884",
    "Utbildningskod": "FDH3363",
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    "Utbildningstillfalleskod": "51409",
    "Utbildningstillfallestyp": {
      "Benamningar": {
        "sv": "Kurstillfälle, forskarnivå",
        "en": "Course instance, Third-cycle"
      },
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": 101955,
      "Kod": "2007FKTF",
      "RegelverkForUtbildningstyp": {
        "Regelvarden": [
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            "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,
      "Kod": "2007FKURS",
      "RegelverkForUtbildningstyp": {
        "Regelvarden": [
```

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              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            },
            {
              "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
              "Varde": "true"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  },
  {
    "Aterbud": false,
    "Avklarad": false,
    "HarTillgodoraknande": false,
    "LarosateID": 29,
    "Nuvarande": true,
    "Paborjad": true,
    "Perioddeltaganden": [
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        "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"
        }
      ],
      "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.kan.utannonseras",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
              "Varde": "varning"
            },
            {
              "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
              "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.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.avbrottsregel",
              "Varde": "20"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
              "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.

319a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

319b ⟨*test functions* 110b⟩+≡

```
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 100.

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"
        }
      ],
      "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": "2010-03-21",
        "Startdatum": "2010-01-18"
      },
      "Studietakt": {
        "Benamning": {
          "sv": "Helfart",
          "en": "Full-time"
        },
        "Takt": 100
      },
      "Undervisningsform": {
        "Benamningar": {
          "sv": "Normal",
          "en": "Normal teaching"
        },
        "Giltighetsperiod": {},
        "ID": 1
      },
      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
      "UtbildningensOmfattningsvarde": "6.0",
      "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "DD2395",
      "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
      "Utbildningstillfalleskod": "81099",
      "Utbildningstillfallestyp": {
        "Benamningar": {
          "sv": "Kurstillfälle",
          "en": "Course instance"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": 52,
        "Kod": "2007KTF",
        "RegelverkForUtbildningstyp": {
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              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan.utannonseras",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
              "Varde": "varning"
```

```
            },
            {
              "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
              "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.informationsbehorighet.grundavancerad",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.avbrottsregel",
              "Varde": "20"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.grundavanceradniva"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
              "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.

323a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

323b ⟨*test functions* 110b⟩+≡

```
  def test_studystructure_student_JSON():
    r = ladok.studystructure_student_JSON(student_uid)
    assert type(r) == dict
```

This code is used in chunk 100.

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": [
            {
              "Index": 1,
              "Omfattningsvarde": "240.0",
              "Slutdatum": "9999-12-31",
              "Startdatum": "2014-07-21",
              "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
            }
          ],
          "SenareDel": false,
          "SpecificeratOmfattningsvarde": "240.0",
          "StudieordningID": "1",
          "Studieperiod": {
            "Startdatum": "2014-07-21"
          },
          "UtbildningUID": "8d323cdf-73d8-11e8-afa7-8e408e694e54",
          "UtbildningensOmfattningsvarde": "240.0",
          "UtbildningsinstansUID": "8d31c808-73d8-11e8-b4e0-063f9afb40e3",
          "Utbildningskod": "DATALOGI",
          "UtbildningssamarbeteID": 134769,
          "UtbildningstillfalleUID": "d5eab999-73d8-11e8-b4e0-063f9afb40e3",
          "Utbildningstillfalleskod": "KONV-02DB8",
          "Utbildningstillfallestyp": {
            "Benamningar": {
              "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
              "en": "Subject instance, Third-cycle"
            },
            "Giltighetsperiod": {},
            "Grundtyp": "KURSPAKETERING",
```

```
            "ID": 101957,
            "Kod": "2007FATF",
            "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": "\u00c4mne, forskarniv\u00e5",
              "en": "Subject, Third-cycle"
            },
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            "Kod": "2007FA",
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                  "Varde": "240"
                },
                {
                  "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
                  "Varde": "true"
                },
                {
                  "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                  "Varde": "grupp.for.utsokning.forskarniva"
                }
              ]
            },
            "Sjalvstandig": true
          },
          "Utbildningsversion": 1
        },
        "YtterstaPaketeringen": true
      },
```

```
      "Utbildningsinformation": {
        "AntalPerioder": 1,
        "AvsesLedaTill": "DOKTORSEXAMEN",
        "Benamning": {
          "sv": "Datalogi",
          "en": "Computer Science"
        },
        "Enhetskod": "HP",
        "LarosateID": 29,
        "Omfattningsvarde": "240.0",
        "PeriodIOrdning": "0",
        "Perioder": [
          {
            "Index": 1,
            "Omfattningsvarde": "240.0",
            "Slutdatum": "9999-12-31",
            "Startdatum": "2014-07-21",
            "Uid": "d5eb2e64-73d8-11e8-afa7-8e408e694e54"
          }
        ],
        "SenareDel": false,
        "SpecificeratOmfattningsvarde": "240.0",
        "StudieordningID": "1",
        "Studieperiod": {
          "Startdatum": "2014-07-21"
        },
        "UtbildningUID": "8d323cdf-73d8-11e8-afa7-8e408e694e54",
        "UtbildningensOmfattningsvarde": "240.0",
        "UtbildningsinstansUID": "8d31c808-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningskod": "DATALOGI",
        "UtbildningssamarbeteID": 134769,
        "UtbildningstillfalleUID": "d5eab999-73d8-11e8-b4e0-063f9afb40e3",
        "Utbildningstillfalleskod": "KONV-02DB8",
        "Utbildningstillfallestyp": {
          "Benamningar": {
            "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
            "en": "Subject instance, Third-cycle"
          },
          "Giltighetsperiod": {},
          "Grundtyp": "KURSPAKETERING",
          "ID": 101957,
          "Kod": "2007FATF",
          "RegelverkForUtbildningstyp": {
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                "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": "\u00c4mne, forskarniv\u00e5",
          "en": "Subject, Third-cycle"
        },
        "Giltighetsperiod": {},
        "Grundtyp": "KURSPAKETERING",
        "ID": 101956,
        "Kod": "2007FA",
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              "Varde": "240"
            },
            {
              "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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            },
            {
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              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
              "Varde": "grupp.for.utsokning.forskarniva"
            }
          ]
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  },
  {
    "Barn": [
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        "Barn": [],
        "Referens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
        "ReferensTillForalder": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,null",
        "Tillfallesdeltagande": {
          "Aterbud": false,
          "Avklarad": true,
          "Godkannandedatum": "2012-04-26",
          "HarPagandeUppehall": false,
          "LarosateID": 29,
```

```
            "Nuvarande": true,
            "Paborjad": true,
            "Sparrad": false,
            "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a8
            "SummeradGodkandOmfattning": "300.0",
            "SummeradHeltTillgodoraknadOmfattning": "0.0",
            "SummeradTillgodoraknadOmfattning": "34.5",
            "Tillganglighet": {
              "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"
            },
            "Uid": "6ce3ffb6-73e0-11e8-b9fd-0a821ba7448e",
            "Utbildningsinformation": {
              "AntalPerioder": 1,
              "Benamning": {
                "sv": "Matematik och IT-datateknik",
                "en": "Mathematics and Information Technology and Computer Science"
              },
              "Enhetskod": "HP-K",
              "FinansieringsformID": 101050,
              "LarosateID": 29,
              "Omfattningsvarde": "300.0",
              "PeriodIOrdning": "0",
              "Perioder": [
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                  "Index": 1,
                  "Omfattningsvarde": "300.0",
                  "Slutdatum": "2011-05-28",
                  "Startdatum": "2006-08-30",
                  "Uid": "54d35cc2-73db-11e8-afa7-8e408e694e54"
                }
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              "SenareDel": false,
              "Studielokalisering": {
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                "en": "Stockholm"
              },
              "Studielokaliseringrepresentation": {
                "Benamningar": {
                  "sv": "Stockholm",
                  "en": "Stockholm"
                },
                "Giltighetsperiod": {
                  "Slutdatum": "2019-01-14",
                  "Startdatum": "1917-10-19"
                },
```

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      "ID": 131778,
      "Kod": "0180"
    },
    "StudieordningID": "2",
    "Studieperiod": {
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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
    },
    "UtbildningUID": "a0bbeaf4-73d8-11e8-afa7-8e408e694e54",
    "UtbildningensOmfattningsvarde": "300.0",
    "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
    "Utbildningskod": "MADA",
    "UtbildningstillfalleUID": "54d30e44-73db-11e8-b4e0-063f9afb40e3",
    "Utbildningstillfalleskod": "32118",
    "Utbildningstillfallestyp": {
      "Benamningar": {
        "sv": "Inriktningstillf\u00e4lle",
        "en": "Specialisation instance"
      },
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": 101961,
      "Kod": "1993INRTF",
      "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"
          }
        ]
      },
      "Sjalvstandig": false
```

```
            },
            "Utbildningstyp": {
              "Benamningar": {
                "sv": "Inriktning",
                "en": "Specialisation"
              },
              "Giltighetsperiod": {},
              "Grundtyp": "KURSPAKETERING",
              "ID": 101960,
              "Kod": "1993INR",
              "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.sjalvstandig",
                    "Varde": "false"
                  }
                ]
              },
              "Sjalvstandig": false
            },
            "Utbildningsversion": 1
          },
          "YtterstaPaketeringen": false
        },
        "Utbildningsinformation": {
          "AntalPerioder": 1,
          "Benamning": {
            "sv": "Matematik och IT-datateknik",
            "en": "Mathematics and Information Technology and Computer Science"
          },
          "Enhetskod": "HP-K",
          "FinansieringsformID": 101050,
          "LarosateID": 29,
          "Omfattningsvarde": "300.0",
          "PeriodIOrdning": "0",
          "Perioder": [
            {
              "Index": 1,
              "Omfattningsvarde": "300.0",
              "Slutdatum": "2011-05-28",
              "Startdatum": "2006-08-30",
              "Uid": "54d35cc2-73db-11e8-afa7-8e408e694e54"
            }
```

```
        ],
        "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": "2",
        "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": "a0bbeaf4-73d8-11e8-afa7-8e408e694e54",
        "UtbildningensOmfattningsvarde": "300.0",
        "UtbildningsinstansUID": "a0bbeaf2-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "MADA",
        "UtbildningstillfalleUID": "54d30e44-73db-11e8-b4e0-063f9afb40e3",
        "Utbildningstillfalleskod": "32118",
        "Utbildningstillfallestyp": {
          "Benamningar": {
            "sv": "Inriktningstillf\u00e4lle",
            "en": "Specialisation instance"
          },
          "Giltighetsperiod": {},
          "Grundtyp": "KURSPAKETERING",
```

```
              "ID": 101961,
              "Kod": "1993INRTF",
              "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"
                  }
                ]
              },
              "Sjalvstandig": false
            },
            "Utbildningstyp": {
              "Benamningar": {
                "sv": "Inriktning",
                "en": "Specialisation"
              },
              "Giltighetsperiod": {},
              "Grundtyp": "KURSPAKETERING",
              "ID": 101960,
              "Kod": "1993INR",
              "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.sjalvstandig",
                    "Varde": "false"
                  }
                ]
              },
              "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"
            }
          ],
          "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.atgard_vid_orimligt_omfattningsvarde",
            "Varde": "varning"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
            "Varde": "true"
```

```
                },
                {
                  "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
                  "Varde": "grupp.for.utsokning.grundavanceradniva"
                },
                {
                  "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.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"
                },
                {
                  "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                  "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"
          }
        ],
        "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.atgard_vid_orimligt_omfattningsvarde",
            "Varde": "varning"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
            "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.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"
              },
              {
                "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                "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.

339a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

339b ⟨*test functions* 110b⟩+≡

```
def test_search_course_rounds_JSON():
  results = ladok.search_course_rounds_JSON(code="DD1317")
  assert results
```

This code is used in chunk 100.

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": "2474f616-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": "2474f616-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": "2474f616-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": "2474f616-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.

342 ⟨*LadokSession data methods* 104c⟩+≡

```
  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.

343 ⟨*test functions* 110b⟩+≡

```
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 100.

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.)

344a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

344b ⟨*test functions* 110b⟩+≡

```
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 100.

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.

345 ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

346 ⟨*test functions* 110b⟩+≡

```
def test_course_instances_JSON():
  r = ladok.course_instances_JSON('DD2395')
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Resultat": [
    {
      "FinansieringsformID": 131738,
      "Slutdatum": "2025-10-24",
      "Startdatum": "2025-08-25",
      "StudielokaliseringID": 135195,
      "StudietaktID": 4,
      "TillfallesKod": "10148",
      "Uid": "530db250-edfd-11ef-a5d7-577d306f467c",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "2474f616-dc41-11e8-8cc1-eaeeb71b497f",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "55ec9709-d6c5-11e8-8fd5-cf9d2c5c41ba",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 2
      }
    },
    {
      "FinansieringsformID": 101050,
      "Slutdatum": "2025-10-24",
      "Startdatum": "2025-08-25",
      "StudielokaliseringID": 135195,
      "StudietaktID": 4,
      "TillfallesKod": "50301",
      "Uid": "88ef281a-b958-11ef-9553-beecfac44351",
```

```
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
          {
            "Sprakkod": "sv",
            "Text": "Datas\u00e4kerhet"
          },
          {
            "Sprakkod": "en",
            "Text": "Computer Security"
          }
        ],
        "Enhet": "HP",
        "GallerUtbildningUtanAngivenOmfattning": false,
        "Omfattning": 6.0,
        "OrganisationUID": "2474f616-dc41-11e8-8cc1-eaeeb71b497f",
        "ResultatPaKursVidAttesteringAvModul": false,
        "Uid": "55ec9709-d6c5-11e8-8fd5-cf9d2c5c41ba",
        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 2
      }
    },
    {
      "FinansieringsformID": 101050,
      "Slutdatum": "2024-10-27",
      "Startdatum": "2024-08-26",
      "StudielokaliseringID": 135195,
      "StudietaktID": 4,
      "TillfallesKod": "50258",
      "Uid": "4e53bc95-9510-11ee-89bd-fb7e5a884889",
      "UndervisningsformID": 1,
      "Utbildningsinstans": {
        "Avvecklad": false,
        "Benamning": [
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        "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
        "Utbildningskod": "DD2395",
        "Versionsnummer": 1
      }
    },
    {
      "FinansieringsformID": 101050,
      "Slutdatum": "2011-01-07",
      "Startdatum": "2010-10-25",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "90306",
      "Uid": "79a8f22f-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
      }
    },
    {
      "Slutdatum": "2011-01-07",
      "Startdatum": "2010-08-27",
      "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,
      "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
      }
    },
    {
      "Slutdatum": "2010-05-29",
      "Startdatum": "2010-01-11",
      "TillfallesKod": "KONV-002673",
      "Uid": "f7a599d1-73da-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,
      "Slutdatum": "2009-10-25",
      "Startdatum": "2009-08-28",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "70327",
      "Uid": "79a5219a-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
      }
    },
    {
      "Slutdatum": "2010-01-08",
      "Startdatum": "2009-08-28",
      "TillfallesKod": "KONV-00FE69",
      "Uid": "08d7268b-73db-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,
```

```
      "Slutdatum": "2009-01-10",
      "Startdatum": "2008-08-29",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "50991",
      "Uid": "79a52199-73da-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": 131743,
      "Slutdatum": "2009-01-10",
      "Startdatum": "2008-08-29",
      "StudielokaliseringID": 131778,
      "StudietaktID": 1,
      "TillfallesKod": "51592",
      "Uid": "79a52198-73da-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
      }
    },
    {
      "Slutdatum": "2009-01-10",
      "Startdatum": "2008-08-29",
      "TillfallesKod": "KONV-009CAF",
      "Uid": "016ef16a-73db-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,
      "Slutdatum": "2008-05-26",
      "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).

388 ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

389 ⟨*test functions* 110b⟩+≡

```
  def test_instance_info():
    r = ladok.instance_info('DD1310', '50429')
    assert type(r) == dict
```

This code is used in chunk 100.

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": "2474f616-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.

390a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

390b ⟨*test functions* 110b⟩+≡

```
  def test_instance_info_uid():
    r = ladok.instance_info_uid(dasak_round_id)
    assert type(r) == dict
```

This code is used in chunk 100.

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",
```

```
15          "Text": "Datas\u00e4kerhet"
16        },
17        {
18          "Sprakkod": "en",
19          "Text": "Computer Security"
20        }
21      ],
22      "Enhet": "HP",
23      "GallerUtbildningUtanAngivenOmfattning": false,
24      "Omfattning": 6.0,
25      "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
26      "ResultatPaKursVidAttesteringAvModul": false,
27      "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
28      "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
29      "Utbildningskod": "DD2395",
30      "Versionsnummer": 1
31    }
32  }
```

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.

391 ⟨*LadokSession data methods* 104c⟩+≡

```
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.

392 ⟨*test functions* 110b⟩+≡

```
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 100.

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.

393 ⟨*LadokSession data methods* 104c⟩+≡

```
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.

394 ⟨*test functions* 110b⟩+≡

```
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 100.

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": "2474f616-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": "2474f616-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.

396 ⟨*LadokSession data methods* 104c⟩+≡

```
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.

397 ⟨*test functions* 110b⟩+≡

```
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 100.

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.

399 ⟨*LadokSession data methods* 104c⟩+≡

```
  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.

400 ⟨*test functions* 110b⟩+≡

```
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 100.

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.

401 ⟨*LadokSession data methods* 104c⟩+≡

```
  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.

402 ⟨*test functions* 110b⟩+≡

```
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 100.

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.

409 ⟨*LadokSession data methods* 104c⟩+≡

```
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.

410 ⟨*test functions* 110b⟩+≡

```
  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 100.

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": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "SenasteResultatandring": "2025-12-11T21:16:06.988",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "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`.

411 ⟨*LadokSession data methods* 104c⟩+≡

```
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.

412 ⟨*test functions* 110b⟩+≡

```
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 100.

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": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "SenasteResultatandring": "2025-12-11T21:16:07.062",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "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.

413a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

413b ⟨*test functions* 110b⟩+≡

```
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 100.

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).

414a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

414b ⟨*test functions* 110b⟩+≡

```
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 100.

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.

415a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

415b ⟨*test functions* 110b⟩+≡

```
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 100.

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.)

416a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

416b ⟨*test functions* 110b⟩+≡

```
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 json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 100.

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": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "SenasteResultatandring": "2025-12-11T21:16:07.647",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "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`.

417a ⟨*LadokSession data methods* 104c⟩+≡

```
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.

417b ⟨*test functions* 110b⟩+≡

```
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 100.

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": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "SenasteResultatandring": "2025-12-11T21:16:07.709",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "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.

418 ⟨*LadokSession data methods* 104c⟩+≡

```
  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.

419a ⟨*test functions* 110b⟩+≡

```
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 100.

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": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "SenasteResultatandring": "2025-12-11T21:16:07.782",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "39cdc8f7-d6ce-11f0-869d-d342849a4762",
  "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.

419b ⟨*LadokSession data methods* 104c⟩+≡

```
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.

420a ⟨*test functions* 110b⟩+≡

```
def test_remove_result_draft_JSON():
  global result_uid

  ladok.remove_result_draft_JSON(result_uid)
```

This code is used in chunk 100.

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.)

420b ⟨*LadokSession data methods* 104c⟩+≡

```
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.

421 ⟨*test functions* 110b⟩+≡

```
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 100.

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.

422a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

422b ⟨*test functions* 110b⟩+≡

```
def test_grading_rights():
  r = ladok.grading_rights()
  assert type(r) == list
  assert type(r[0]) == dict
```

This code is used in chunk 100.

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": true,
    "Benamning": "DD1315 Programming Techniques and Matlab",
    "Gruppavgransningar": [],
    "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "ATTESTANT",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Datavetenskap",
        "en": "EECS/Computer Science"
      },
      "Kod": "JH",
      "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "nannah@kth.se",
    "SenastSparad": "2020-09-24T13:46:48.089",
    "Studentavgransningar": [],
    "Uid": "a0c3d8c7-fe5b-11ea-a46d-46a9df314f55",
    "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": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Datavetenskap",
        "en": "EECS/Computer Science"
```

```
      },
      "Kod": "JH",
      "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "nannah@kth.se",
    "SenastSparad": "2020-09-24T13:47:26.409",
    "Studentavgransningar": [],
    "Uid": "b79b0424-fe5b-11ea-a46d-46a9df314f55",
    "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": true,
    "Benamning": "DD1315 Programming Techniques and Matlab",
    "Gruppavgransningar": [],
    "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "ATTESTANT",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "CSC/Teoretisk datalogi",
        "en": "CSC/Theoretical Computer Science"
      },
      "Kod": "DL",
      "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "suscar@kth.se",
    "SenastSparad": "2020-10-09T13:08:19.986",
    "Studentavgransningar": [],
    "Uid": "bd39872d-0a1f-11eb-9d38-9773472c4c59",
    "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": "DD1310 Programming Techniques",
    "Gruppavgransningar": [],
    "KursUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Datavetenskap",
        "en": "EECS/Computer Science"
      },
      "Kod": "JH",
      "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "mbw@kth.se",
    "SenastSparad": "2021-09-17T10:18:33.012",
    "Studentavgransningar": [],
    "Uid": "d900e7f1-178f-11ec-a4aa-32ead39744f5",
    "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": "DD1310 Programming Techniques",
    "Gruppavgransningar": [],
    "KursUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
```

```
    "Medarbetartyp": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "CSC/Teoretisk datalogi",
        "en": "CSC/Theoretical Computer Science"
      },
      "Kod": "DL",
      "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "mbw@kth.se",
    "SenastSparad": "2021-09-17T10:18:49.263",
    "Studentavgransningar": [],
    "Uid": "e2b09bfd-178f-11ec-a4aa-32ead39744f5",
    "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": true,
    "Benamning": "DD1315 Programming Techniques and Matlab",
    "Gruppavgransningar": [],
    "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
    "Kursinstansavgransningar": [],
    "Kurstillfallesavgransningar": [],
    "Medarbetartyp": "RAPPORTOR",
    "Modulavgransningar": [],
    "Organisation": {
      "Benamning": {
        "sv": "EECS/Datavetenskap",
        "en": "EECS/Computer Science"
      },
      "Kod": "JH",
      "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
    },
    "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
    "RattighetenSaknarPraktiskMening": false,
    "SenastAndradAv": "gusrud@kth.se",
    "SenastSparad": "2020-09-25T10:47:53.563",
    "Studentavgransningar": [],
```

```
    "Uid": "cce6eb80-ff0b-11ea-a46d-46a9df314f55",
    "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": true,
    "Benamning": "DD1315 Programming Techniques and Matlab",
    "Gruppavgransningar": [],
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    }
  }
]
```

20.2 organization_info_JSON

We can get information about the organization.

434a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

434b ⟨*test functions* 110b⟩+≡

```
def test_organization_info_JSON():
  r = ladok.organization_info_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

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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        "en": "Education Office"
      },
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      "Uid": "2643eb46-4ed0-11e9-b4bf-5bdac8ed422e"
    },
    {
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        "en": "KTH/Studentservice"
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        "en": "V\u00e4gledning och st\u00f6d"
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      "Uid": "d425e3ca-5136-11ed-8375-6cbbfdc3415f"
    },
    {
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```

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    },
    {
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        "sv": "Internationella relationer",
        "en": "Internationella relationer"
      },
      "Kod": "TGB",
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      "Uid": "7ff2aa13-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Utbildningsadministration",
        "en": "Utbildningsadministration"
      },
      "Kod": "TGC",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "a29e657e-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
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        "en": "Antagning"
      },
      "Kod": "TGCA",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "def1d166-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Examen",
        "en": "Examen"
      },
      "Kod": "TGCB",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "f691f1f7-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Verksamhetsuppf\u00f6ljning och systemst\u00f6d",
        "en": "Verksamhetsuppf\u00f6ljning och systemst\u00f6d"
      },
      "Kod": "TGCC",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "0c54785f-e4fa-11e9-bc38-95b4343842da"
    },
```

```
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      "Benamning": {
        "sv": "Forskningsst\u00f6d",
        "en": "Research Support Office"
      },
      "Kod": "TH",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "7b204c57-e4f7-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Kommunikationsavdelningen",
        "en": "Communication Department"
      },
      "Kod": "TI",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "b573a1e0-e4f7-11e9-bc38-95b4343842da"
    },
    {
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        "sv": "IT",
        "en": "IT"
      },
      "Kod": "TJ",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "d3602864-e4f7-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "ITA-STAB",
        "en": "ITA-STAB"
      },
      "Kod": "TJA",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "f4b44dbd-e4f8-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Anv\u00e4ndarst\u00f6d",
        "en": "Anv\u00e4ndarst\u00f6d"
      },
      "Kod": "TJB",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "014eed80-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Drift och infrastruktur",
        "en": "Drift och infrastruktur"
      },
      "Kod": "TJC",
```

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      "Organisationsenhetstyp": "INSTITUTION",
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    },
    {
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        "sv": "Systemf\u00f6rvaltning och utveckling",
        "en": "Systemf\u00f6rvaltning och utveckling"
      },
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      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "1d9e3ddc-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Arkiv och registratur",
        "en": "Arkiv och registratur"
      },
      "Kod": "TJE",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "2a90c0e2-e4f9-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "H\u00e5llbarhet, fastigheter och service",
        "en": "Sustainability, Real Estate and Facility Service"
      },
      "Kod": "TK",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "1e630972-e4f8-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "Interrevision",
        "en": "Internal Audit"
      },
      "Kod": "TP",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "4b1720bc-e4f8-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "KTH Innovation",
        "en": "KTH Innovation"
      },
      "Kod": "TQ",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "5c1d3155-e4f8-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
        "sv": "KTH Biblioteket",
```

```
        "en": "KTH Library"
      },
      "Kod": "TR",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "79611a96-e4f8-11e9-bc38-95b4343842da"
    },
    {
      "Benamning": {
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        "en": "- No translation available -"
      },
      "Kod": "U",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec44883a-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
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        "en": "- No translation available -"
      },
      "Kod": "UA",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec476e71-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Mitth\u00f6gskolan",
        "en": "- No translation available -"
      },
      "Kod": "UB",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec4aa2c8-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "H\u00f6gskolan i G\u00e4vle",
        "en": "- No translation available -"
      },
      "Kod": "UC",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec4d88ff-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "H\u00f6gskolan Dalarna",
        "en": "- No translation available -"
      },
      "Kod": "UD",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec509646-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
```

```
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        "sv": "Karolinska institutet",
        "en": "- No translation available -"
      },
      "Kod": "UE",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec53a38d-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Journalistkurser vid SU",
        "en": "- No translation available -"
      },
      "Kod": "UJ",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec5662b4-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Stockholms universitet",
        "en": "Stockholm University"
      },
      "Kod": "UL",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec5921db-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Byggd milj\u00f6, H\u00f6gsk i G\u00e4vle",
        "en": "- No translation available -"
      },
      "Kod": "UM",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec5be102-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Tekniska h\u00f6gskolans studentk\u00e5r",
        "en": "Student Union"
      },
      "Kod": "UTHS",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec5e7919-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen",
        "en": "University Administration"
      },
      "Kod": "V",
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        "Uid": "ec618660-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "Universitetsf\u00f6rvaltningen/Rektors planeringsenhet",
          "en": "University Administration"
        },
        "Kod": "VDA",
        "Organisationsenhetstyp": "INSTITUTION",
        "Uid": "ec641e77-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "Universitetsf\u00f6rvaltningen/Stiftelse- och EK f\u00f6rvaltning",
          "en": "University Administration"
        },
        "Kod": "VDB",
        "Organisationsenhetstyp": "INSTITUTION",
        "Uid": "ec66dd9e-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "Universitetsf\u00f6rvaltningen/avd f\u00f6r dokumenthantering",
          "en": "University Administration"
        },
        "Kod": "VDC",
        "Organisationsenhetstyp": "INSTITUTION",
        "Uid": "ec69eae5-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "KTH/Universitetsf\u00f6rvaltningen/VoS",
          "en": "KTH/University Administration, Sweden"
        },
        "Kod": "VDDA",
        "Organisationsenhetstyp": "INSTITUTION",
        "Uid": "ec6fb753-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "KTH/Universitetsf\u00f6rvaltningen/Personalavdelningen",
          "en": "KTH University Administration"
        },
        "Kod": "VDDH",
        "Organisationsenhetstyp": "INSTITUTION",
        "Uid": "ec729d8a-73d6-11e8-8c58-f9aa7f7e4fb6"
      },
      {
        "Benamning": {
          "sv": "Universitetsf\u00f6rvaltningen/Kommunikationsavdelningen (KOM)",
```

```
        "en": "University Administration"
      },
      "Kod": "VDE",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec7583c1-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen/Fakultetens kansli",
        "en": "University Administration"
      },
      "Kod": "VDG",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec78b818-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/Avdelningen f\u00f6r studentservice",
        "en": "KTH/University Administration"
      },
      "Kod": "VDH",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec7c137f-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen/Enheten f\u00f6r externa relationer",
        "en": "University Administration"
      },
      "Kod": "VDI",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec7f47d6-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/Juridiska avdelningen",
        "en": "KTH/University Administration/Legal Department"
      },
      "Kod": "VDJ",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec82a33d-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen/IRO - Internationella relationer",
        "en": "University Administration"
      },
      "Kod": "VDK",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec853b54-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
```

```
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/Lokalserviceavdelningen",
        "en": "KTH/University Administration"
      },
      "Kod": "VDO",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec895a0b-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen/IT-enheten",
        "en": "University Administration"
      },
      "Kod": "VDP",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec8c1932-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "Universitetsf\u00f6rvaltningen/KTH N\u00e4ringslivssamverkan",
        "en": "- No translation available -"
      },
      "Kod": "VDU",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec8f4d89-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA",
        "en": "KTH University Administration"
      },
      "Kod": "VDV",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec6cd11c-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Antagningsgruppen",
        "en": "KTH Admissions Office"
      },
      "Kod": "VDVA",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec92a8f0-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Examensgruppen",
        "en": "KTH Degree Administration Office"
      },
      "Kod": "VDVB",
```

```
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec95b637-73d6-11e8-8c58-f9aa7f7e4fb6"
    },
    {
      "Benamning": {
        "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/VoS",
        "en": "KTH University Administration"
      },
      "Kod": "VDVC",
      "Organisationsenhetstyp": "INSTITUTION",
      "Uid": "ec99119e-73d6-11e8-8c58-f9aa7f7e4fb6"
    }
  ]
}
```

20.3 larosatesinformation_JSON

518a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

518b ⟨*test functions* 110b⟩+≡

```
  def test_larosatesinformation_JSON():
    r = ladok.larosatesinformation_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

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

519a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

519b ⟨*test functions* 110b⟩+≡

```
  def test_undervisningssprak_JSON():
    r = ladok.undervisningssprak_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Undervisningssprak": [
    {
      "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": "Arabiska",
        "en": "Arabic"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "111032",
      "Kod": "ARA",
      "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": "Flerspr\u00e5kig undervisning",
        "en": "Multiple languages"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150758",
      "Kod": "MUL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Turkiska",
        "en": "Turkish"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150759",
      "Kod": "TUR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Persiska",
        "en": "Persian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "150907",
```

```
      "Kod": "PER",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Isl\u00e4ndska",
        "en": "Icelandic"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "151538",
      "Kod": "ISL",
      "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
    },
```

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    {
      "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
    },
    {
      "Benamning": {
        "sv": "Ryska",
        "en": "Russian"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "4",
      "Kod": "RUS",
      "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": "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
    }
  ]
}
```

20.5 i18n_translation_JSON

527a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

527b ⟨*test functions* 110b⟩+≡

```
  def test_i18n_translation_JSON():
    r = ladok.i18n_translation_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Oversattningar": [
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.omradesbehorighet",
      "Text": "Omr\u00e5desbeh\u00f6righet"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.utbildningsinformationsstruktur",
      "Text": "Struktur"
    },
    {
      "I18nNyckel": "systemaktivitet.bevakning.lasa",
      "Text": "Bevakning: L\u00e4s grundinformation"
    },
    {
      "I18nNyckel": "studentarende.besluta",
      "Text": "Besluta och avsluta"
    },
    {
```

```
      "I18nNyckel": "dokumenthantering.fel.detaljkod.dokumentkonfiguration",
      "Text": "Dokumentkonfiguration"
    },
    {
      "I18nNyckel": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
      "Text": "\u00c5tg\u00e4rd n\u00e4r studieperiod \u00f6verskrider terminsgr\u00e4ns"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.lan.beskrivning",
      "Text": "Regionalt f\u00f6rvaltningsomr\u00e5de, administrativ och geografisk indelning av Sverig
    },
    {
      "I18nNyckel": "systemaktivitet.sok.kursinstans.student",
      "Text": "Student-Resultat: S\u00f6ka kurser i tillgodor\u00e4knandeans\u00f6kan (kompletterande)"
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student",
      "Text": "Studentinformation: S\u00f6ka student i hela Ladok - nationell r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "commons.domain.resultat",
      "Text": "Resultat"
    },
    {
      "I18nNyckel": "systemaktivitet.uppfoljning.population.student.sok",
      "Text": "Utdata: S\u00f6ka ut population"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte.student",
      "Text": "Student-Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
    },
    {
      "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": "kataloginformation.grunddatakategori.lokalvardelista.beskrivning",
      "Text": "Grunddatav\u00e4rde som kan anv\u00e4ndas av l\u00e4ros\u00e4tets lokala attribut f\u00f
    },
```

```
    {
      "I18nNyckel": "systemaktivitet.examen.hantera.nationell.bevisinformation",
      "Text": "Bevis: Hantera nationell bevisinformation"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.utlandsk.ort",
      "Text": "Utl\u00e4ndsk ort"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.tabort.attesterat_resultat",
      "Text": "Resultat: Ta bort attesterat resultat"
    },
    {
      "I18nNyckel": "commons.domain.utbildningsgrundtyp.annatresultat",
      "Text": "Annat resultat"
    },
    {
      "I18nNyckel": "commons.domain.regel.ar_kurspaket",
      "Text": "\u00c4r kurspaket"
    },
    {
      "I18nNyckel": "commons.fel.kategori.persistensfel",
      "Text": "Datalagringsfel"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.handlagga_tillgodoraknande",
      "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r del av kurs inkl. klarmarke
    },
    {
      "I18nNyckel": "systemaktivitet.common.intern.lasning.av.feed",
      "Text": "Common: L\u00e4ser feeds internt"
    },
    {
      "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": "systemfunktion.id.100007",
      "Text": "Allm\u00e4n ta bort notering i \u00e4rende"
    },
    {
      "I18nNyckel": "systemfunktion.id.100008",
      "Text": "Allm\u00e4n ta bort notering i \u00e4rende tillagd av annan anv\u00e4ndare"
```

```
    },
    {
      "I18nNyckel": "systemfunktion.id.100005",
      "Text": "Allm\u00e4n \u00e4ndra \u00e4rende"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.hamta.utfardade_bevis.borttagna",
      "Text": "Bevis: L\u00e4sa borttagna bevis"
    },
    {
      "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildning.administrera.i.status.komplett",
      "Text": "Utbildningsinformation: Hantera utbildning i status komplett"
    },
    {
      "I18nNyckel": "commons.domain.larosate.hkr",
      "Text": "H\u00f6gskolan Kristianstad"
    },
    {
      "I18nNyckel": "systemfunktion.id.100006",
      "Text": "Allm\u00e4n l\u00e4gga till notering i \u00e4rende"
    },
    {
      "I18nNyckel": "systemfunktion.id.100009",
      "Text": "Allm\u00e4n l\u00e4gga till bilaga i \u00e4rende"
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.konfiguration_av_autentisering",
      "Text": "Konfiguration av autentiering"
    },
    {
      "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": "systemfunktion.id.100003",
      "Text": "Allm\u00e4n tilldela \u00e4rende"
    },
    {
      "I18nNyckel": "systemfunktion.id.100004",
      "Text": "Allm\u00e4n p\u00e5b\u00f6rja behandling av \u00e4rende"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.definitionavantagningsomgang.beskrivning",
      "Text": "F\u00f6rdefinierad omg\u00e5ng f\u00f6r sammanh\u00e5llen hantering av anm\u00e4lningar
    },
    {
      "I18nNyckel": "systemfunktion.id.100001",
```

```
      "Text": "Allm\u00e4n l\u00e4s \u00e4rendest\u00f6d"
    },
    {
      "I18nNyckel": "systemfunktion.id.100002",
      "Text": "Allm\u00e4n skapa \u00e4rende"
    },
    {
      "I18nNyckel": "systemaktivitet.common.lasa_handelsefel",
      "Text": "H\u00e4ndelser: L\u00e4sa h\u00e4ndelsefel"
    },
    {
      "I18nNyckel": "commons.domain.enhet.khppoang",
      "Text": "Konverterade h\u00f6gskolepo\u00e4ng"
    },
    {
      "I18nNyckel": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
      "Text": "Ing\u00e5r i grupp: \u00d6verf\u00f6rs till NyA"
    },
    {
      "I18nNyckel": "commons.domain.utbildningstyp.kurspaket",
      "Text": "Kurspaket"
    },
    {
      "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.datatyp",
      "Text": "Datatyp"
    },
    {
      "I18nNyckel": "commons.domain.regel.informationsbehorighet.utbytesstudier",
      "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Utbytesstudier"
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.administrera.students.leveranspreferenser",
      "Text": "Studentinformation: Administrera students leveranspreferenser"
    },
    {
      "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": "commons.domain.larosate.uu",
      "Text": "Uppsala universitet"
    },
    {
      "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.utbildningsinformation.utbildningsmall.skriv.nationell",
      "Text": "Utbildningsinformation: Hantera nationell utbildningsmall"
    },
    {
      "I18nNyckel": "systemfunktion.id.100010",
      "Text": "Allm\u00e4n l\u00e4sa bilaga i \u00e4rende"
    },
    {
      "I18nNyckel": "systemfunktion.id.100011",
      "Text": "Allm\u00e4n ta bort bilaga i \u00e4rende"
    },
    {
      "I18nNyckel": "systemaktivitet.common.spara_persistenta_las",
      "Text": "L\u00e5sbara objekt: L\u00e5sa objekt"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte",
      "Text": "Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
    },
    {
      "I18nNyckel": "commons.kompletterande.meddelande.rattigheter_saknas",
      "Text": "R\u00e4ttighet saknas."
    },
    {
      "I18nNyckel": "systemfunktion.id.100014",
      "Text": "Allm\u00e4n \u00e5ter\u00f6ppna \u00e4rende"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.administrera.attesteringsrattigheter",
      "Text": "Resultat: Hantera attesteringsr\u00e4ttigheter"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.konfiguration_av_autentisering",
      "Text": "Autentiseringsregler"
    },
```

```
    {
      "I18nNyckel": "systemfunktion.id.100012",
      "Text": "Allm\u00e4n ta bort bilaga i \u00e4rende tillagd av annan anv\u00e4ndare"
    },
    {
      "I18nNyckel": "studiedeltagande.arende.fritext",
      "Text": "Fritext\u00e4rende"
    },
    {
      "I18nNyckel": "commons.domain.larosate.hhs",
      "Text": "Handelsh\u00f6gskolan i Stockholm"
    },
    {
      "I18nNyckel": "systemfunktion.id.100013",
      "Text": "Allm\u00e4n avsluta \u00e4rende"
    },
    {
      "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": "systemaktivitet.utbildningsinformation.anvanda_befintligt_tillfalle_som_forlaga",
      "Text": "Utbildningsinformation: Till\u00e5t befintligt tillf\u00e4lle som f\u00f6rlaga f\u00f6r
    },
    {
      "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": "kataloginformation.grunddatakategori.beviskategori",
      "Text": "Beviskategori"
    },
    {
      "I18nNyckel": "systemaktivitet.studentinformation.ta.bort.student",
      "Text": "Studentinformation: Ta bort student utan kopplingar till l\u00e4ros\u00e4ten"
    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.exportera",
      "Text": "Beh\u00f6righetshantering: Exportera beh\u00f6righetsprofiler"
```

```
    },
    {
      "I18nNyckel": "commons.fel.detaljkod.period",
      "Text": "Period"
    },
    {
      "I18nNyckel": "commons.domain.utbildningsgrundtyp.aktivitet",
      "Text": "Aktivitet"
    },
    {
      "I18nNyckel": "systemfunktion.id.100021",
      "Text": "Ta bort \u00e4rendekorg"
    },
    {
      "I18nNyckel": "systemfunktion.id.100022",
      "Text": "Allm\u00e4n skapa meddelande i \u00e4rende"
    },
    {
      "I18nNyckel": "systemfunktion.id.100020",
      "Text": "Administrera \u00e4rendekorgar p\u00e5 lokal niv\u00e5"
    },
    {
      "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"
    },
    {
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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": "Regelv\u00e4rde"
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      "Text": "Menyval: Avslutad utbildning"
    },
    {
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    },
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      "Text": "Personnummer"
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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": "Studiedeltagande: Dokumentera avbrott p\u00e5 kurs"
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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": "Spara successiv f\u00f6rdjupning p\u00e5 nationell niv\u00e5"
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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": "Spara studiefinansiering p\u00e5 nationell niv\u00e5"
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      "Text": "Spara studiefinansiering p\u00e5 lokal niv\u00e5"
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      "Text": "Spara enhet p\u00e5 nationell niv\u00e5"
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      "Text": "Spara utbytesprogram p\u00e5 nationell niv\u00e5"
    },
    {
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      "Text": "Spara utbytesprogram p\u00e5 lokal niv\u00e5"
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      "I18nNyckel": "systemfunktion.id.10069",
      "Text": "Spara undervisningsspr\u00e5k p\u00e5 nationell niv\u00e5"
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    },
    {
```

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      "I18nNyckel": "systemaktivitet.utbildningsinformation.makulera_litteraturlista",
      "Text": "Utbildningsinformation: Makulera litteraturlista"
    },
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      "I18nNyckel": "systemaktivitet.extintegration.emil_lasaktivitet",
      "Text": "Extintegration: EMIL l\u00e4saktivitet"
    },
    {
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      "Text": "Processt\u00f6d: Processdeltagare"
    },
    {
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    },
    {
      "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.anvandare.skriv",
      "Text": "Beh\u00f6righetshantering: Hantera anv\u00e4ndare - lokal r\u00e4ttighetsniv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.hamta.intyg.over.forvantat.deltagande",
      "Text": "Studieintyg: H\u00e4mta intyg \u00f6ver f\u00f6rv\u00e4ntat deltagande"
    },
    {
      "I18nNyckel": "andringslogg.andringsloggtyp.behorighetsprofil",
      "Text": "Beh\u00f6righetsprofil"
    },
    {
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      "Text": "Studieavgifter: Hantera inst\u00e4llningar"
    },
    {
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      "Text": "Studieperiod"
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      "Text": "Undervisningsform"
    },
    {
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      "Text": "Studiedeltagande: Pingintegration l\u00e4sa ej p\u00e5b\u00f6rjade tillf\u00e4llesantagn
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    {
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      "Text": "Val av bevis \u00e4ndrat"
    },
    {
      "I18nNyckel": "kataloginformation.grunddatakategori.utlandsk.ort.beskrivning",
      "Text": "Geografisk plats utanf\u00f6r Sverige med eget namn."
    },
```

```
    {
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    },
    {
      "I18nNyckel": "systemaktivitet.examen.administrera.lokal.installning.modul.i.bevis",
      "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r moduler i bevis"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.sparra_kurspaketeringstillfalle",
      "Text": "Studiedeltagande: Hantera sp\u00e4rr p\u00e5 kurspaketeringstillf\u00e4lle"
    },
    {
      "I18nNyckel": "systemaktivitet.resultat.las.attesteringsrattigheter",
      "Text": "Resultat: L\u00e4sa attesteringsr\u00e4ttigheter"
    },
    {
      "I18nNyckel": "arendestod.fel.detaljkod.handlaggare",
      "Text": "Handl\u00e4ggare"
    },
    {
      "I18nNyckel": "systemfunktion.id.10076",
      "Text": "Spara utbildningsregel p\u00e5 nationell niv\u00e5"
    },
    {
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    },
    {
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      "Text": "Utbildningsinformation: S\u00e4tt status p\u00e5 utbildning till komplett"
    },
    {
      "I18nNyckel": "systemfunktion.id.10078",
      "Text": "Spara orsak till avst\u00e4ngning p\u00e5 nationell niv\u00e5"
    },
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      "Text": "Chalmers tekniska h\u00f6gskola"
    },
    {
      "I18nNyckel": "systemfunktion.id.10079",
      "Text": "Spara tj\u00e4nstekonfigurationsobjekt p\u00e5 lokal niv\u00e5"
    },
    {
      "I18nNyckel": "systemaktivitet.examen.massutfarda.kursbevis",
      "Text": "Bevis: Massutf\u00e4rda kursbevis"
    },
    {
      "I18nNyckel": "systemaktivitet.studiedeltagande.las.dokumenteradebeslut",
      "Text": "Studiedeltagande: L\u00e4sa dokumenterade beslut"
```

```
6038      },
6039      {
6040        "I18nNyckel": "systemfunktion.id.10073",
6041        "Text": "Spara konfiguration av autentisering p\u00e5 lokal niv\u00e5"
6042      },
6043      {
6044        "I18nNyckel": "systemaktivitet.utbildningsinformation.redigera_publicerade_attributvarden_i_plan"
6045        "Text": "Utbildningsinformation: Redigera publicerade attributv\u00e4rden i plan"
6046      },
6047      {
6048        "I18nNyckel": "systemfunktion.id.10074",
6049        "Text": "H\u00e4mta konfiguration av autentisering p\u00e5 lokal niv\u00e5"
6050      },
6051      {
6052        "I18nNyckel": "commons.domain.enhet.veckor",
6053        "Text": "Veckor"
6054      }
6055    ]
6056  }
```

20.6 svenskorter_JSON

646a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

646b ⟨*test functions* 110b⟩+≡

```
  def test_svenskorter_JSON():
    r = ladok.svenskorter_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
1  {
2    "SvenskOrt": [
3      {
4        "Benamning": {
5          "sv": "Stockholm (Sundbyberg)",
6          "en": "Stockholm (Sundbyberg)"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "24",
      "Kod": "L0183",
      "KommunID": "20",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Stockholm (Solna)",
        "en": "Stockholm (Solna)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "L0184",
      "KommunID": "21",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Liding\u00f6",
        "en": "Liding\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Kod": "T0228",
      "KommunID": "22",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vaxholm",
        "en": "Vaxholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "27",
      "Kod": "T0392",
      "KommunID": "23",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norrt\u00e4lje",
        "en": "Norrt\u00e4lje"
      },
      "Beskrivning": {},
```

```
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        "en": "M\u00e4rsta"
      },
      "Beskrivning": {},
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      "KommunID": "25",
      "LarosateID": -1
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        "en": "Rosersberg"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "KommunID": "25",
      "LarosateID": -1
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    {
      "Benamning": {
        "sv": "Sigtuna",
        "en": "Sigtuna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T0300",
      "KommunID": "25",
      "LarosateID": -1
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        "sv": "Nyn\u00e4shamn",
        "en": "Nyn\u00e4shamn"
      },
```

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        "en": "\u00d6smo"
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    {
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```

```
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        "en": "Tierp"
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      "Beskrivning": {},
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      "KommunID": "31",
      "LarosateID": -1
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        "en": "Uppsala"
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        "en": "Enk\u00f6ping"
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      "KommunID": "33",
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        "sv": "Gimo",
```

```
          "en": "Gimo"
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        "Dolt": false,
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          "en": "Ving\u00e5ker"
        },
        "Beskrivning": {},
        "Dolt": false,
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        "KommunID": "35",
        "LarosateID": -1
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          "en": "Gnesta"
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        "Kod": "T0752",
        "KommunID": "36",
        "LarosateID": -1
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      {
        "Benamning": {
```

```
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        "en": "Nyk\u00f6ping"
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      "KommunID": "37",
      "LarosateID": -1
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        "en": "Oxel\u00f6sund"
      },
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      "Kod": "T0820",
      "KommunID": "38",
      "LarosateID": -1
    },
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        "en": "Flen"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "KommunID": "39",
      "LarosateID": -1
    },
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        "en": "Staffanstorp"
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      "KommunID": "97",
      "LarosateID": -1
    },
    {
```

```
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        "en": "Arl\u00f6v"
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      "Kod": "TX402",
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      "LarosateID": -1
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        "en": "\u00c5karp"
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      "Beskrivning": {},
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      "Giltighetsperiod": {},
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      "Kod": "T3812",
      "KommunID": "98",
      "LarosateID": -1
    },
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        "sv": "H\u00f6llviken",
        "en": "H\u00f6llviken"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T3496",
      "KommunID": "99",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Skan\u00f6r med Falsterbo",
        "en": "Skan\u00f6r med Falsterbo"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T3672",
      "KommunID": "99",
      "LarosateID": -1
    },
```

```
    {
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        "sv": "Vellinge",
        "en": "Vellinge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T3780",
      "KommunID": "99",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Broby",
        "en": "Broby"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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      "Kod": "T2828",
      "KommunID": "100",
      "LarosateID": -1
    },
    {
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        "sv": "Knislinge",
        "en": "Knislinge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T2972",
      "KommunID": "100",
      "LarosateID": -1
    },
    {
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        "sv": "\u00d6rkelljunga",
        "en": "\u00d6rkelljunga"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "T3208",
      "KommunID": "101",
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Bjuv",
        "en": "Bjuv"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "125",
      "Kod": "T3352",
      "KommunID": "102",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "K\u00e4vlinge",
        "en": "K\u00e4vlinge"
      },
      "Beskrivning": {},
      "Dolt": false,
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        "en": "H\u00e4rjedalen"
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      "Beskrivning": {},
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      "KommunID": "256",
      "LarosateID": -1
    }
  ]
}
```

20.7 kommuner_JSON

738a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

738b ⟨*test functions* 110b⟩+≡

```
  def test_kommuner_JSON():
    r = ladok.kommuner_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Kommun": [
    {
      "Benamning": {
        "sv": "Danderyd",
        "en": "Danderyd"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "15",
      "Kod": "0162",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sollentuna",
        "en": "Sollentuna"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "16",
      "Kod": "0163",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Stockholm",
        "en": "Stockholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "17",
      "Kod": "0180",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00f6dert\u00e4lje",
        "en": "S\u00f6dert\u00e4lje"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "18",
      "Kod": "0181",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nacka",
        "en": "Nacka"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "19",
      "Kod": "0182",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sundbyberg",
        "en": "Sundbyberg"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "20",
      "Kod": "0183",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Solna",
        "en": "Solna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "21",
      "Kod": "0184",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Liding\u00f6",
        "en": "Liding\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "22",
      "Kod": "0186",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vaxholm",
        "en": "Vaxholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "23",
      "Kod": "0187",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norrt\u00e4lje",
```

```
        "en": "Norrt\u00e4lje"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "24",
      "Kod": "0188",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sigtuna",
        "en": "Sigtuna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "25",
      "Kod": "0191",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nyn\u00e4shamn",
        "en": "Nyn\u00e4shamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "26",
      "Kod": "0192",
      "LanID": 1,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "H\u00e5bo",
        "en": "H\u00e5bo"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "27",
      "Kod": "0305",
      "LanID": 2,
      "LarosateID": -1
    },
    {
      "Benamning": {
```

```
        "sv": "\u00c4lvkarleby",
        "en": "\u00c4lvkarleby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "28",
      "Kod": "0319",
      "LanID": 2,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Aneby",
        "en": "Aneby"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "57",
      "Kod": "0604",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Gnosj\u00f6",
        "en": "Gnosj\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "58",
      "Kod": "0617",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mullsj\u00f6",
        "en": "Mullsj\u00f6"
      },
      "Beskrivning": {
        "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1998-01-01"
      },
      "ID": "59",
      "Kod": "0642",
```

```
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Habo",
        "en": "Habo"
      },
      "Beskrivning": {
        "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "1998-01-01"
      },
      "ID": "60",
      "Kod": "0643",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Gislaved",
        "en": "Gislaved"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "61",
      "Kod": "0662",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vaggeryd",
        "en": "Vaggeryd"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "62",
      "Kod": "0665",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "J\u00f6nk\u00f6ping",
        "en": "J\u00f6nk\u00f6ping"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "63",
      "Kod": "0680",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "N\u00e4ssj\u00f6",
        "en": "N\u00e4ssj\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "64",
      "Kod": "0682",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "V\u00e4rnamo",
        "en": "V\u00e4rnamo"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "65",
      "Kod": "0683",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "S\u00e4vsj\u00f6",
        "en": "S\u00e4vsj\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "66",
      "Kod": "0684",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vetlanda",
        "en": "Vetlanda"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "67",
      "Kod": "0685",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Eksj\u00f6",
        "en": "Eksj\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "68",
      "Kod": "0686",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tran\u00e5s",
        "en": "Tran\u00e5s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "69",
      "Kod": "0687",
      "LanID": 5,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Uppvidinge",
        "en": "Uppvidinge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "70",
      "Kod": "0760",
      "LanID": 6,
      "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,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Burl\u00f6v",
        "en": "Burl\u00f6v"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "98",
      "Kod": "1231",
      "LanID": 10,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c4ngelholm",
        "en": "\u00c4ngelholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "127",
      "Kod": "1292",
      "LanID": 10,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "H\u00e4ssleholm",
        "en": "H\u00e4ssleholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "128",
      "Kod": "1293",
      "LanID": 10,
      "LarosateID": -1
```

```
    },
    {
      "Benamning": {
        "sv": "Hylte",
        "en": "Hylte"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "129",
      "Kod": "1315",
      "LanID": 11,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Halmstad",
        "en": "Halmstad"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "130",
      "Kod": "1380",
      "LanID": 11,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Laholm",
        "en": "Laholm"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131",
      "Kod": "1381",
      "LanID": 11,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Falkenberg",
        "en": "Falkenberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "132",
      "Kod": "1382",
      "LanID": 11,
```

```
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Varberg",
        "en": "Varberg"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "133",
      "Kod": "1383",
      "LanID": 11,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kungsbacka",
        "en": "Kungsbacka"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "134",
      "Kod": "1384",
      "LanID": 11,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "H\u00e4rryda",
        "en": "H\u00e4rryda"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "135",
      "Kod": "1401",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Partille",
        "en": "Partille"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "136",
      "Kod": "1402",
```

```
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6cker\u00f6",
        "en": "\u00d6cker\u00f6"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "137",
      "Kod": "1407",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Stenungsund",
        "en": "Stenungsund"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "138",
      "Kod": "1415",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tj\u00f6rn",
        "en": "Tj\u00f6rn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "139",
      "Kod": "1419",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Orust",
        "en": "Orust"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "140",
```

```
      "Kod": "1421",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Bengtsfors",
        "en": "Bengtsfors"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "155",
      "Kod": "1460",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mellerud",
        "en": "Mellerud"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "156",
      "Kod": "1461",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Lilla Edet",
        "en": "Lilla Edet"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "157",
      "Kod": "1462",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mark",
        "en": "Mark"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "158",
      "Kod": "1463",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Svenljunga",
        "en": "Svenljunga"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "159",
      "Kod": "1465",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Herrljunga",
        "en": "Herrljunga"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "160",
      "Kod": "1466",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Vara",
        "en": "Vara"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161",
      "Kod": "1470",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "G\u00f6tene",
        "en": "G\u00f6tene"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "162",
      "Kod": "1471",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tibro",
        "en": "Tibro"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "163",
      "Kod": "1472",
      "LanID": 12,
      "LarosateID": -1
    },
    {
      "Benamning": {
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        "en": "Sunne"
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      "LanID": 16,
      "LarosateID": -1
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        "en": "Ockelbo"
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        "en": "Ovan\u00e5ker"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "ID": "239",
      "Kod": "2121",
      "LanID": 17,
      "LarosateID": -1
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      "Benamning": {
        "sv": "Nordanstig",
        "en": "Nordanstig"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "240",
      "Kod": "2132",
      "LanID": 17,
      "LarosateID": -1
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      "Benamning": {
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        "en": "Ljusdal"
      },
      "Beskrivning": {},
      "Dolt": false,
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        "en": "Sandviken"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "243",
      "Kod": "2181",
      "LanID": 17,
      "LarosateID": -1
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        "sv": "S\u00f6derhamn",
        "en": "S\u00f6derhamn"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "244",
      "Kod": "2182",
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      "LarosateID": -1
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      "Benamning": {
        "sv": "Bolln\u00e4s",
        "en": "Bolln\u00e4s"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "245",
      "Kod": "2183",
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      "LarosateID": -1
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    {
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        "sv": "Hudiksvall",
        "en": "Hudiksvall"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "246",
      "Kod": "2184",
      "LanID": 17,
      "LarosateID": -1
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    {
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        "sv": "\u00c5nge",
        "en": "\u00c5nge"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "247",
      "Kod": "2260",
      "LanID": 18,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Skellefte\u00e5",
        "en": "Skellefte\u00e5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LanID": 20,
      "LarosateID": -1
    },
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      "Benamning": {
        "sv": "Arvidsjaur",
        "en": "Arvidsjaur"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "277",
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      "Kod": "2505",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Arjeplog",
        "en": "Arjeplog"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LanID": 21,
      "LarosateID": -1
    },
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      "Benamning": {
        "sv": "Jokkmokk",
        "en": "Jokkmokk"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "279",
      "Kod": "2510",
      "LanID": 21,
      "LarosateID": -1
    },
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        "en": "\u00d6verkalix"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kalix",
        "en": "Kalix"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

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      "LanID": 21,
      "LarosateID": -1
    },
    {
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        "en": "\u00d6vertorne\u00e5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "282",
      "Kod": "2518",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Pajala",
        "en": "Pajala"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "2521",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "G\u00e4llivare",
        "en": "G\u00e4llivare"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "284",
      "Kod": "2523",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00c4lvsbyn",
        "en": "\u00c4lvsbyn"
      },
      "Beskrivning": {},
      "Dolt": false,
```

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      "ID": "285",
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      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Lule\u00e5",
        "en": "Lule\u00e5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "286",
      "Kod": "2580",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Pite\u00e5",
        "en": "Pite\u00e5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "287",
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      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Boden",
        "en": "Boden"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "288",
      "Kod": "2582",
      "LanID": 21,
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Haparanda",
        "en": "Haparanda"
      },
      "Beskrivning": {},
```

```
      "Dolt": false,
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      "ID": "289",
      "Kod": "2583",
      "LanID": 21,
      "LarosateID": -1
    }
  ]
}
```

20.8 lander_JSON

813a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

813b ⟨*test functions* 110b⟩+≡

```
  def test_lander_JSON():
    r = ladok.lander_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Land": [
    {
      "Benamning": {
        "sv": "Chile",
        "en": "Chile"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "33",
      "Kod": "CL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kamerun",
        "en": "Cameroon"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "34",
      "Kod": "CM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kina",
        "en": "China"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "35",
      "Kod": "CN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Colombia",
        "en": "Colombia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "36",
      "Kod": "CO",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Costa Rica",
        "en": "Costa Rica"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "37",
      "Kod": "CR",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kuba",
        "en": "Cuba"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
      "ID": "38",
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Kap Verde",
        "en": "Cape Verde"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Cypern",
        "en": "Cyprus"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "40",
      "Kod": "CY",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tjeckien",
        "en": "Czech Republic"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "41",
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Tyskland",
        "en": "Germany"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "42",
      "Kod": "DE",
      "LarosateID": -1
```

```
    },
    {
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        "en": "Denmark"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Israel",
        "en": "Israel"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "77",
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      "LarosateID": -1
    },
    {
      "Benamning": {
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        "en": "India"
      },
      "Beskrivning": {},
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      "LarosateID": -1
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    {
      "Benamning": {
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        "en": "Iraq"
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      "Giltighetsperiod": {},
      "ID": "79",
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    },
    {
      "Benamning": {
```

```
        "sv": "Iran",
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      },
      "Beskrivning": {},
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      "ID": "80",
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      "LarosateID": -1
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    {
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        "en": "Iceland"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Italien",
        "en": "Italy"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "82",
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      "LarosateID": -1
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    {
      "Benamning": {
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        "en": "Jamaica"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "83",
      "Kod": "JM",
      "LarosateID": -1
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    {
      "Benamning": {
        "sv": "Jordanien",
        "en": "Jordan"
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```

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      "Giltighetsperiod": {},
      "ID": "84",
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      "LarosateID": -1
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    {
      "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
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    {
      "Benamning": {
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        "en": "Kyrgyzstan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "87",
      "Kod": "KG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mali",
        "en": "Mali"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

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    {
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        "en": "Myanmar"
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      "Beskrivning": {
        "sv": "Burma"
      },
      "Dolt": false,
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      "ID": "111",
      "Kod": "MM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mongoliet",
        "en": "Mongolia"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "ID": "112",
      "Kod": "MN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Macao",
        "en": "Macao"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "113",
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      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mauretanien",
        "en": "Mauritania"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "114",
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      "Kod": "MR",
      "LarosateID": -1
    },
    {
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        "en": "Malta"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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      "LarosateID": -1
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    {
      "Benamning": {
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        "en": "Mauritius"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
      "ID": "116",
      "Kod": "MU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Malawi",
        "en": "Malawi"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "117",
      "Kod": "MW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mexiko",
        "en": "Mexico"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "118",
      "Kod": "MX",
      "LarosateID": -1
    },
```

```
    {
      "Benamning": {
        "sv": "Malaysia",
        "en": "Malaysia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "119",
      "Kod": "MY",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Mo\u00e7ambique",
        "en": "Mozambique"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "120",
      "Kod": "MZ",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Serbien",
        "en": "Serbia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "143",
      "Kod": "RS",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Ryssland",
        "en": "Russia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "144",
      "Kod": "RU",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Rwanda",
```

```
        "en": "Rwanda"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "145",
      "Kod": "RW",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Saudiarabien",
        "en": "Saudi Arabia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "146",
      "Kod": "SA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Seychellerna",
        "en": "Seychelles"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "147",
      "Kod": "SC",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sudan",
        "en": "Sudan"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "148",
      "Kod": "SD",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Singapore",
        "en": "Singapore"
      },
      "Beskrivning": {},
```

```
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      "ID": "149",
      "Kod": "SG",
      "LarosateID": -1
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    {
      "Benamning": {
        "sv": "Slovenien",
        "en": "Slovenia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "150",
      "Kod": "SI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Slovakien",
        "en": "Slovakia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "151",
      "Kod": "SK",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sierra Leone",
        "en": "Sierra Leone"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "152",
      "Kod": "SL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Senegal",
        "en": "Senegal"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "153",
```

```
      "Kod": "SN",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Jemen",
        "en": "Yemen"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "180",
      "Kod": "YE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Sydafrika",
        "en": "South Africa"
      },
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        "Giltighetsperiod": {},
        "ID": "30",
        "Kod": "CG",
        "LarosateID": -1
      },
      {
```

```
      "Benamning": {
        "sv": "Schweiz",
        "en": "Switzerland"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "31",
      "Kod": "CH",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Elfenbenskusten",
        "en": "C\u00f4te d'Ivoire"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "32",
      "Kod": "CI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Namibia",
        "en": "Namibia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "121",
      "Kod": "NA",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nya Kaledonien",
        "en": "New Caledonia"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "122",
      "Kod": "NC",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Niger",
        "en": "Niger"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "123",
      "Kod": "NE",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nigeria",
        "en": "Nigeria"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "124",
      "Kod": "NG",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nicaragua",
        "en": "Nicaragua"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "125",
      "Kod": "NI",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nederl\u00e4nderna",
        "en": "Netherlands"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "126",
      "Kod": "NL",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Norge",
        "en": "Norway"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "Giltighetsperiod": {},
      "ID": "127",
      "Kod": "NO",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nepal",
        "en": "Nepal"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "128",
      "Kod": "NP",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Nya Zeeland",
        "en": "New Zealand"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "129",
      "Kod": "NZ",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Oman",
        "en": "Oman"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "130",
      "Kod": "OM",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Panama",
        "en": "Panama"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131",
      "Kod": "PA",
```

```
      "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
      }
    ]
}
```


20.9 undervisningstid_JSON

866 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

867 ⟨*test functions* 110b⟩+≡

```
def test_undervisningstid_JSON():
  r = ladok.undervisningstid_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

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": {},
      "ID": "101054",
      "Kod": "ING",
      "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

868 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

869 ⟨*test functions* 110b⟩+≡

```
def test_successivfordjupning_JSON():
  r = ladok.successivfordjupning_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

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

872a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

872b ⟨*test functions* 110b⟩+≡

```
  def test_undervisningsform_JSON():
    r = ladok.undervisningsform_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

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

874a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

874b ⟨*test functions* 110b⟩+≡

```
def test_LokalaPerioder_JSON():
  r = ladok.LokalaPerioder_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Period": [
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1937",
        "en": "Last six months of 1937"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1937-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1937-12-31",
        "Startdatum": "1937-07-01"
      },
      "ID": "29522",
```

```
      "Kod": "1937H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1937-12-31"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1950",
        "en": "Last six months of 1950"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1950-07-01",
      "Giltighetsperiod": {
        "Slutdatum": "1950-12-31",
        "Startdatum": "1950-07-01"
      },
      "ID": "29182",
      "Kod": "1950H",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1950-12-31"
    },
    {
      "Benamning": {
        "sv": "F\u00f6rsta halv\u00e5r 1950",
        "en": "First six months of 1950"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1950-01-01",
      "Giltighetsperiod": {
        "Slutdatum": "1950-06-30",
        "Startdatum": "1950-01-01"
      },
      "ID": "29254",
      "Kod": "1950V",
      "LarosateID": 29,
      "PeriodtypID": 3,
      "TomDatum": "1950-06-30"
    },
    {
      "Benamning": {
        "sv": "Andra halv\u00e5r 1951",
        "en": "Last six months of 1951"
      },
      "Beskrivning": {},
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      "Kod": "VT1976",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1976-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1977",
        "en": "Spring semester 1977"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1977-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1977-08-14",
        "Startdatum": "1977-01-20"
      },
      "ID": "133139",
      "Kod": "VT1977",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1977-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1978",
        "en": "Spring semester 1978"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1978-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1978-08-14",
        "Startdatum": "1978-01-20"
      },
      "ID": "133138",
      "Kod": "VT1978",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1978-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1979",
        "en": "Spring semester 1979"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1979-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1979-08-14",
```

```
        "Startdatum": "1979-01-20"
      },
      "ID": "133140",
      "Kod": "VT1979",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1979-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1980",
        "en": "Spring semester 1980"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1980-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1980-08-14",
        "Startdatum": "1980-01-20"
      },
      "ID": "133143",
      "Kod": "VT1980",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1980-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1981",
        "en": "Spring semester 1981"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "1981-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1981-08-14",
        "Startdatum": "1981-01-20"
      },
      "ID": "133147",
      "Kod": "VT1981",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1981-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 1982",
        "en": "Spring semester 1982"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "FromDatum": "1982-01-20",
      "Giltighetsperiod": {
        "Slutdatum": "1982-08-14",
        "Startdatum": "1982-01-20"
      },
      "ID": "133142",
      "Kod": "VT1982",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "1982-08-14"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2001",
        "en": "Spring semester 2001"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2001-01-15",
      "Giltighetsperiod": {
        "Slutdatum": "2001-06-02",
        "Startdatum": "2001-01-15"
      },
      "ID": "133097",
      "Kod": "VT2001",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2001-06-02"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2002",
        "en": "Spring semester 2002"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2002-01-14",
      "Giltighetsperiod": {
        "Slutdatum": "2002-06-01",
        "Startdatum": "2002-01-14"
      },
      "ID": "133102",
      "Kod": "VT2002",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2002-06-01"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2003",
        "en": "Spring semester 2003"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2003-01-14",
      "Giltighetsperiod": {
        "Slutdatum": "2003-06-06",
        "Startdatum": "2003-01-14"
      },
      "ID": "133103",
      "Kod": "VT2003",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2003-06-06"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2004",
        "en": "Spring semester 2004"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2004-01-19",
      "Giltighetsperiod": {
        "Slutdatum": "2004-06-01",
        "Startdatum": "2004-01-19"
      },
      "ID": "133100",
      "Kod": "VT2004",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2004-06-01"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2005",
        "en": "Spring semester 2005"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2005-01-17",
      "Giltighetsperiod": {
        "Slutdatum": "2005-06-04",
        "Startdatum": "2005-01-17"
      },
      "ID": "133099",
      "Kod": "VT2005",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2005-06-04"
    },
    {
```

```
      "Benamning": {
        "sv": "V\u00e5rtermin 2006",
        "en": "Spring semester 2006"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2006-01-18",
      "Giltighetsperiod": {
        "Slutdatum": "2006-05-30",
        "Startdatum": "2006-01-18"
      },
      "ID": "133105",
      "Kod": "VT2006",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2006-05-30"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2007",
        "en": "Spring semester 2007"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2007-01-17",
      "Giltighetsperiod": {
        "Slutdatum": "2007-05-28",
        "Startdatum": "2007-01-17"
      },
      "ID": "133106",
      "Kod": "VT2007",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2007-05-28"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2008",
        "en": "Spring semester 2008"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2008-01-14",
      "Giltighetsperiod": {
        "Slutdatum": "2008-05-26",
        "Startdatum": "2008-01-14"
      },
      "ID": "133107",
      "Kod": "VT2008",
      "LarosateID": 29,
      "PeriodtypID": 2,
```

```
      "TomDatum": "2008-05-26"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2009",
        "en": "Spring semester 2009"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2009-01-12",
      "Giltighetsperiod": {
        "Slutdatum": "2009-05-27",
        "Startdatum": "2009-01-12"
      },
      "ID": "133109",
      "Kod": "VT2009",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2009-05-27"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2020",
        "en": "Spring semester 2020"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2020-01-15",
      "Giltighetsperiod": {
        "Slutdatum": "2020-06-01",
        "Startdatum": "2020-01-15"
      },
      "ID": "133118",
      "Kod": "VT2020",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2020-06-01"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2021",
        "en": "Spring semester 2021"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2021-01-18",
      "Giltighetsperiod": {
        "Slutdatum": "2021-06-08",
        "Startdatum": "2021-01-18"
      },
      "ID": "133119",
```

```
      "Kod": "VT2021",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2021-06-08"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2022",
        "en": "Spring semester 2022"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2022-01-18",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-07",
        "Startdatum": "2022-01-18"
      },
      "ID": "149450",
      "Kod": "VT2022",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2022-06-07"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2023",
        "en": "Spring semester 2023"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2023-01-17",
      "Giltighetsperiod": {
        "Slutdatum": "2023-06-05",
        "Startdatum": "2023-01-17"
      },
      "ID": "150798",
      "Kod": "VT2023",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2023-06-05"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2024",
        "en": "Spring semester 2024"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2024-01-16",
      "Giltighetsperiod": {
        "Slutdatum": "2024-06-03",
```

```
        "Startdatum": "2024-01-16"
      },
      "ID": "151879",
      "Kod": "VT2024",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2024-06-03"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2025",
        "en": "Spring semester 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2025-01-14",
      "Giltighetsperiod": {
        "Slutdatum": "2025-06-02",
        "Startdatum": "2025-01-14"
      },
      "ID": "153188",
      "Kod": "VT2025",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2025-06-02"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2026",
        "en": "Spring semester 2026"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2026-01-13",
      "Giltighetsperiod": {
        "Slutdatum": "2026-06-01",
        "Startdatum": "2026-01-13"
      },
      "ID": "153189",
      "Kod": "VT2026",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2026-06-01"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2027",
        "en": "Spring semester 2027"
      },
      "Beskrivning": {},
      "Dolt": false,
```

```
      "FromDatum": "2027-01-12",
      "Giltighetsperiod": {
        "Slutdatum": "2027-05-31",
        "Startdatum": "2027-01-12"
      },
      "ID": "153190",
      "Kod": "VT2027",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2027-05-31"
    },
    {
      "Benamning": {
        "sv": "V\u00e5rtermin 2028",
        "en": "Spring semester 2028"
      },
      "Beskrivning": {},
      "Dolt": false,
      "FromDatum": "2028-01-17",
      "Giltighetsperiod": {
        "Slutdatum": "2028-06-04",
        "Startdatum": "2028-01-17"
      },
      "ID": "156664",
      "Kod": "VT2028",
      "LarosateID": 29,
      "PeriodtypID": 2,
      "TomDatum": "2028-06-04"
    }
  ]
}
```


20.13 nivainomstudieordning_JSON

1003a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1003b ⟨*test functions* 110b⟩+≡

```
def test_nivainomstudieordning_JSON():
  r = ladok.nivainomstudieordning_JSON()
```

```
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "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",
```

```
48          "en": "Postgraduate level"
49        },
50        "Beskrivning": {},
51        "Dolt": false,
52        "Giltighetsperiod": {
53          "Slutdatum": "2007-06-30",
54          "Startdatum": "1977-07-01"
55        },
56        "ID": "5",
57        "Kod": "F",
58        "LarosateID": -1
59      },
60      {
61        "Benamning": {
62          "sv": "Grundutbildning",
63          "en": "Undergraduate level"
64        },
65        "Beskrivning": {},
66        "Dolt": false,
67        "Giltighetsperiod": {
68          "Slutdatum": "2007-06-30",
69          "Startdatum": "1977-07-01"
70        },
71        "ID": "4",
72        "Kod": "G",
73        "LarosateID": -1
74      }
75    ]
76  }
```

20.14 amnesgrupp_JSON

1005a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1005b ⟨*test functions* 110b⟩+≡

```
def test_amnesgrupp_JSON():
  r = ladok.amnesgrupp_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Amnesgrupp": [
    {
      "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": "Japanska",
        "en": "Japanese"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "73",
      "Kod": "JA1",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "\u00d6vrigt inom journalistik, kommunikation, information",
        "en": "Other Subjects within Journalism, Communication and Information"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "74",
      "Kod": "JK9",
      "LarosateID": -1
    },
    {
      "Benamning": {
        "sv": "Journalistik",
        "en": "Journalism"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "75",
      "Kod": "JO1",
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        "en": "Musicology"
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        "en": "Space Technology"
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        "en": "Other Subjects within Social Science"
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        "en": "Social Studies"
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          "en": "Theology"
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        "en": "Dental Technology and Oral Health"
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        "en": "Therapy, Rehabilitation and Dietary Treatment"
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        "en": "Technology from a Social Perspective"
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        "en": "Wood Physics and Wood Technology"
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        "en": "Biology"
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        "en": "Biomedical Laboratory Science"
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          "en": "Biotechnology"
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          "en": "Child and Youth Education and Care"
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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": "Chemical Engineering"
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        "en": "Kurdish"
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        "en": "Conservation"
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        "en": "History and Theory of Art"
      },
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        "en": "Cultural Studies"
      },
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        "sv": "Krigsvetenskap",
        "en": "War Studies"
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        "en": "Economics"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "LarosateID": -1
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        "en": "Other Subjects within Natural Science"
      },
      "Beskrivning": {},
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      "LarosateID": -1
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        "en": "Dutch"
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      "Dolt": false,
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        "sv": "Nygrekiska",
        "en": "Modern Greek"
      },
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      "Dolt": false,
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        "en": "Nutrition"
      },
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      "Kod": "NU1",
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    {
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        "en": "Odontology"
      },
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        "en": "Nursing Science"
      },
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      },
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        "en": "Education"
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        "en": "Sociology"
      },
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      "Dolt": false,
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        "en": "Social Anthropology"
      },
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      "ID": "146",
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        "en": "Spanish"
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        "en": "Other Languages"
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        "en": "Political Science"
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        "sv": "Arbetsvetenskap och ergonomi",
        "en": "Work Science and Ergonomics"
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        "en": "Ancient History"
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        "en": "General Linguistics"
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        "en": "Archaeology"
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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": "Health and Society"
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        "en": "Disability Studies"
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        "en": "Industrial Engineering and Management"
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        "en": "History of Science and Ideas/History of Ideas"
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        "en": "Indology and Sanskrit"
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        "en": "Italian"
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        "en": "Agricultural Science"
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        "en": "Mathematics"
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        "en": "Medical Biology"
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        "sv": "Musikdramatisk scenframst\u00e4llning och gestaltning",
        "en": "Operatic Stagecraft and Characterization"
      },
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        "sv": "Medicin",
        "en": "Medicine"
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        "en": "Other Subjects within Medicine"
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        "en": "Culinary Arts and Home Economics Studies"
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        "en": "Media and Communication Studies"
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        "en": "Swahili"
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          "en": "Student and Vocational Counselling"
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          "en": "Tamil Language"
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          "en": "Sign Language"
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          "sv": "\u00d6vriga tekniska \u00e4mnen",
          "en": "Other Subjects within Technology"
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          "en": "Engineering Physics"
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        "sv": "\u00d6vrigt inom teater, film och dans",
        "en": "Other Subjects within Performing Arts"
      },
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        "en": "Thai"
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        "en": "Tibetan"
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        "en": "Library and Information Science"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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        "en": "Building Technology"
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      "Beskrivning": {},
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        "en": "Circus"
      },
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        "en": "Danish"
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        "en": "Dance"
      },
      "Beskrivning": {},
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      "ID": "23",
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        "en": "Design"
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        "en": "Veterinary Nursing"
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      "Beskrivning": {},
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        "en": "Computer Technology"
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        "en": "Dance and Theatre Studies"
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          "en": "Geographic Information Technology and Surveying"
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        "Beskrivning": {},
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          "en": "Earth Science and Physical Geography"
        },
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          "en": "Greek"
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          "en": "Gender Studies"
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          "en": "Animal Science"
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        "en": "Hebrew"
      },
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      "Kod": "HE1",
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        "en": "Other Subjects within the Humanities"
      },
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        "en": "Hindi"
      },
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        "en": "History"
      },
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        "en": "Latin"
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        "en": "Landscape Architecture"
      },
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        "en": "Latvian"
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        "sv": "Luftfart",
        "en": "Aviation"
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        "en": "Lithuanian"
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      "LarosateID": -1
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        "en": "Country Knowledge/Country Studies"
      },
      "Beskrivning": {},
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        "en": "Food Science"
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        "en": "Leadership, Organisation and Management"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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          "en": "Comparative Literature"
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          "en": "Polish"
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          "en": "Persian"
        },
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          "en": "Psychology"
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        "Dolt": false,
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          "en": "Portuguese"
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        "en": "Psychotherapy"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "PY1",
      "LarosateID": -1
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        "sv": "Regi",
        "en": "Stage Direction"
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      "Beskrivning": {},
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        "sv": "Retorik",
        "en": "Rhetoric"
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      "Beskrivning": {},
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      "ID": "133",
      "Kod": "RO1",
      "LarosateID": -1
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      "Benamning": {
        "sv": "Rum\u00e4nska",
        "en": "Romanian"
      },
      "Beskrivning": {},
      "Dolt": false,
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        "en": "Religious Studies"
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    {
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        "en": "Horticultural Science"
      },
      "Beskrivning": {},
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      "Giltighetsperiod": {},
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        "en": "Other Interdisciplinary Studies"
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      "Dolt": false,
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      "ID": "173",
      "Kod": "TV9",
      "LarosateID": -1
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    {
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        "sv": "Textilteknologi",
        "en": "Textile Technology"
      },
      "Beskrivning": {},
      "Dolt": false,
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      },
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        "en": "Hungarian"
      },
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        "en": "Educational Sciences/General Didactics"
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      "ID": "177",
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    {
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        "en": "Educational Sciences/Theoretical Subjects"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "178",
      "Kod": "UV2",
      "LarosateID": -1
    },
    {
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          "sv": "Utbildningsvetenskap praktisk-estetiska \u00e4mnen",
          "en": "Educational Sciences/Practical Subjects"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "ID": "179",
        "Kod": "UV3",
        "LarosateID": -1
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      {
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          "sv": "Veterin\u00e4rmedicin",
          "en": "Veterinary Medicine"
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      {
        "Benamning": {
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          "en": "Civil Engineering"
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        "Giltighetsperiod": {},
        "ID": "181",
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        "LarosateID": -1
      }
    ]
}
```


20.15 studietakt_JSON

1048 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1049 ⟨*test functions* 110b⟩+≡

```
def test_studietakt_JSON():
  r = ladok.studietakt_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

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": {},
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      "Kod": "67",
      "LarosateID": -1,
      "Takt": 67
    },
    {
      "Benamning": {
        "sv": "Trekvartsfart",
        "en": "Three-quarters-time"
      },
      "Beskrivning": {},
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      "Takt": 75
    },
    {
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        "sv": "Noll",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Takt": 0
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    {
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        "en": "One-quarter-time"
      },
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```

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      "Takt": 14
```

```
    },
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        "en": "One-quarter-time"
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        "en": "One-quarter-time"
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    },
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      },
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      "Giltighetsperiod": {
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        "en": "One-quarter-time"
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        "en": "One-quarter-time"
      },
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        "en": "Halftime"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
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      },
      "ID": "133303",
      "Kod": "38",
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      "Takt": 38
    },
    {
      "Benamning": {
        "sv": "Halvtid",
        "en": "Halftime"
      },
      "Beskrivning": {},
      "Dolt": false,
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      },
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      "Takt": 39
    },
    {
      "Benamning": {
        "sv": "Kvartstid",
        "en": "One-quarter-time"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133269",
      "Kod": "4",
      "LarosateID": 29,
      "Takt": 4
    },
    {
      "Benamning": {
        "sv": "Halvtid",
        "en": "Halftime"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133302",
      "Kod": "40",
      "LarosateID": 29,
      "Takt": 40
    },
    {
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        "sv": "Halvtid",
        "en": "Halftime"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "133304",
      "Kod": "41",
      "LarosateID": 29,
      "Takt": 41
    },
    {
      "Benamning": {
```

```
          "sv": "Halvtid",
          "en": "Halftime"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
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        },
        "ID": "133305",
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        "Takt": 42
      },
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        "Benamning": {
          "sv": "Halvtid",
          "en": "Halftime"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
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        "Takt": 43
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          "sv": "Halvtid",
          "en": "Halftime"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
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          "en": "Halftime"
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        "Giltighetsperiod": {
```

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          "en": "Halftime"
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    }
  ]
}
```


20.16 finansieringsform_JSON

1078 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1079 ⟨*test functions* 110b⟩+≡

```
def test_finansieringsform_JSON():
  r = ladok.finansieringsform_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
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        "en": "Bridging programme for graduates with foreign qualifications"
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      "Beskrivning": {},
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      "Kod": "A",
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        "en": "Foundation year programme"
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      "ID": "131729",
      "Kod": "LIU",
      "LarosateID": 29
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    {
      "Benamning": {
        "sv": "Uppdragsutbildn. Sri Lanka (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131728",
      "Kod": "LK",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "M\u00e4lardalens h\u00f6gskola",
        "en": "- No translation available -"
```

```
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131732",
      "Kod": "MD",
      "LarosateID": 29
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    {
      "Benamning": {
        "sv": "M\u00e4lardalens h\u00f6gskola, NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131733",
      "Kod": "MDN",
      "LarosateID": 29
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    {
      "Benamning": {
        "sv": "Mittuniversitetet",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131739",
      "Kod": "MH",
      "LarosateID": 29
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    {
      "Benamning": {
        "sv": "Mitth\u00f6gskolan, NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
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        "Slutdatum": "2018-06-19"
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      "ID": "131735",
      "Kod": "MHN",
      "LarosateID": 29
    },
    {
```

```
      "Benamning": {
        "sv": "Nordiska masterprogram",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131734",
      "Kod": "NMP",
      "LarosateID": 29
    },
    {
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        "sv": "N\u00e4tuniversitetet, NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
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      "LarosateID": 29
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        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131737",
      "Kod": "N\u00c4T",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Kurser f\u00f6r KTHs personal (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131741",
      "Kod": "PER",
      "LarosateID": 29
    },
    {
      "Benamning": {
```

```
        "sv": "Study Abroad Programme",
        "en": "Study Abroad Programme"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131738",
      "Kod": "SAP",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Sport Campus Sweden",
        "en": "Sport Campus Sweden"
      },
      "Beskrivning": {
        "sv": "Riksidrottsuniversitetet KTH"
      },
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "148732",
      "Kod": "SCS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Erasmus Intensive Programme, sommarp.",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131747",
      "Kod": "SEM",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "\u00d6verbryggande kurs, sommarperiod",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131740",
      "Kod": "SFB",
      "LarosateID": 29
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    {
```

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      "Benamning": {
        "sv": "SFINX, f\u00f6r utl\u00e4ndska ingenj\u00f6rer",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131743",
      "Kod": "SFI",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Fortbildn & vidareutbildn, sommarperiod",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131742",
      "Kod": "SFV",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "NT/SVUX-utbildning, sommarperiod",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131745",
      "Kod": "SNT",
      "LarosateID": 29
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    {
      "Benamning": {
        "sv": "N\u00e4tkurs, sommarperiod",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131744",
      "Kod": "SN\u00c4",
      "LarosateID": 29
    },
```

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    {
      "Benamning": {
        "sv": "Sommarperiod",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131746",
      "Kod": "SOM",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Stockholm Summer School",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "131748",
      "Kod": "SSS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Best\u00e4lld utbildning f\u00f6r Stockholms Universitet",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131749",
      "Kod": "SU",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Best\u00e4lld utbildning f\u00f6r S\u00f6dert\u00f6rns h\u00f6gskola",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131751",
      "Kod": "S\u00d6",
      "LarosateID": 29
    },
    {
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      "Benamning": {
        "sv": "Antagna av distanskonsortiet(ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
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      "Kod": "UDI",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Best\u00e4lld utbildning f\u00f6r F\u00f6rsvarsh\u00f6gskolan",
        "en": "- No translation available -"
      },
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      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "131750",
      "Kod": "UFH",
      "LarosateID": 29
    },
    {
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        "sv": "Best\u00e4lld utbildning f\u00f6r Handelsh\u00f6gskolan",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131752",
      "Kod": "UHH",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdr.utb. Karolinska inst (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131757",
      "Kod": "UKI",
```

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      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdr.utb. L\u00e4nsarbetsn\u00e4mnden(ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131756",
      "Kod": "ULA",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-19"
      },
      "ID": "131758",
      "Kod": "UPP",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdragsutbildning Skolverket (ej HST-HPR)",
        "en": "Contract Education, Skolverket"
      },
      "Beskrivning": {
        "sv": "Ny kod 2022\nF\u00f6rordningen 2007:223 avser \u201dUppdragsutbildning f\u00f6r fortbild
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-01-01"
      },
      "ID": "153550",
      "Kod": "UPS",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdr.utb. S\u00f6dert\u00f6rn (ej HST-HPR)",
        "en": "- No translation available -"
      },
```

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      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131755",
      "Kod": "USO",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdr.utb. SU-UU (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131767",
      "Kod": "USU",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Visby, tekniskt bas\u00e5r",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131754",
      "Kod": "UVB",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Visby",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131760",
      "Kod": "UVI",
      "LarosateID": 29
    },
```

```
    {
      "Benamning": {
        "sv": "Visby, NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131759",
      "Kod": "UVN",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Visby, tekniskt bas\u00e5r NT-SVUX",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2018-06-19"
      },
      "ID": "131761",
      "Kod": "UVT",
      "LarosateID": 29
    },
    {
      "Benamning": {
        "sv": "Uppdr.utb. Visby, UPP (ej HST-HPR)",
        "en": "- No translation available -"
      },
      "Beskrivning": {},
      "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

1106a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1106b ⟨*test functions* 110b⟩+≡

```
def test_utbildningsomrade_JSON():
  r = ladok.utbildningsomrade_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Utbildningsomrade": [
    {
      "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": "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
    },
    {
      "Benamning": {
        "sv": "Farmaceutiska omr\u00e5det",
        "en": "Pharmacy"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "3",
      "Kod": "FA",
      "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": "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": "V\u00e5rdomr\u00e5det",
        "en": "Health care"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Startdatum": "1993-07-01"
      },
      "ID": "22",
      "Kod": "V\u00c5",
      "LarosateID": -1
    }
  ]
}
```


20.18 kravpatidigarestudier_JSON

1112 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1113 ⟨*test functions* 110b⟩+≡

```
  def test_kravpatidigarestudier_JSON():
    r = ladok.kravpatidigarestudier_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

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

1114a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1114b ⟨*test functions* 110b⟩+≡

```
def test_studieordning_JSON():
  r = ladok.studieordning_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Studieordning": [
    {
      "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, \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": "Uppdragsutbildning (veckor)",
        "en": "Contract education (weeks)"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "18",
      "Kod": "UPVE",
      "LarosateID": -1,
      "UtbildningsformID": 100928
    },
    {
      "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": "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, 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": "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": "\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": "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": "Pastoralteologisk utbildning",
        "en": "Pastoral education"
      },
      "Beskrivning": {},
      "Dolt": false,
      "EnhetID": 1,
      "Giltighetsperiod": {},
      "ID": "162110",
      "Kod": "PIPT",
      "LarosateID": -1,
      "UtbildningsformID": 161479
    }
  ]
}
```


20.20 enhet_JSON

1120 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1121 ⟨*test functions* 110b⟩+≡

```
def test_enhet_JSON():
  r = ladok.enhet_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

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

1124a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1124b ⟨*test functions* 110b⟩+≡

```
def test_studielokalisering_JSON():
  r = ladok.studielokalisering_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Studielokalisering": [
    {
      "Benamning": {
        "sv": "J\u00e4rf\u00e4lla",
        "en": "J\u00e4rf\u00e4lla"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
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      },
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```

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      "LarosateID": 29,
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        "en": "Haninge"
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      "Beskrivning": {},
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      },
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      "Dolt": true,
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```

```
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          "en": "Visby"
        },
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        "Dolt": true,
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          "Startdatum": "1991-08-01"
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      "LarosateID": 29,
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        "Startdatum": "1994-08-01"
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      "OrtID": 263
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        "en": "G\u00e4vle"
      },
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      "Dolt": true,
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        "Startdatum": "1997-08-01"
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        "en": "Sundsvall"
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        "Startdatum": "1996-08-01"
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      "ID": "131785",
      "Kod": "2281",
      "LarosateID": 29,
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    {
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        "en": "\u00d6rnsk\u00f6ldsvik"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
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      "ID": "131788",
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      "LarosateID": 29,
      "OrtID": 284
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    {
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```

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          "en": "AlbaNova"
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        "LarosateID": 29,
        "OrtID": 18
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          "en": "\u00c5re"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {
          "Startdatum": "2024-01-13"
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        "LarosateID": 29,
        "OrtID": 290
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          "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": {
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      "LarosateID": 29,
      "OrtID": 25
    },
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        "en": "Kiruna"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
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      "ID": "157822",
      "Kod": "KIRUNA",
      "LarosateID": 29,
      "OrtID": 326
    },
    {
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        "sv": "KTH Kista",
        "en": "KTH Kista"
      },
      "Beskrivning": {
        "sv": "\"Campus\" Kista"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
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      "LarosateID": 29,
      "OrtID": 18
    },
    {
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        "sv": "Nyk\u00f6ping",
        "en": "Nyk\u00f6ping"
      },
      "Beskrivning": {},
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        "en": "Nyn\u00e4shamn"
      },
      "Beskrivning": {
        "sv": "Fr\u00e5n HT26, L\u00e4rcentrum Tekniskt bas\u00e5r"
      },
      "Dolt": false,
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      "LarosateID": 29,
      "OrtID": 32
    },
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        "en": "\u00d6rnsk\u00f6ldsvik"
      },
      "Beskrivning": {},
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      "Kod": "ORNSKOLDSVI",
      "LarosateID": 29,
      "OrtID": 284
    },
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        "en": "Oskarshamn"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
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      "LarosateID": 29,
      "OrtID": 103
    },
    {
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        "en": "Stockholm University"
      },
      "Beskrivning": {},
      "Dolt": false,
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      },
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      "Kod": "SU",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
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        "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": "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
    },
    {
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        "en": "Norrt\u00e4lje"
```

```
      },
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      "Kod": "0188",
      "LarosateID": 29,
      "OrtID": 28
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        "sv": "KTH Flemingsberg",
        "en": "KTH Flemingsberg"
      },
      "Beskrivning": {
        "sv": "\"campus\" Flemingsberg"
      },
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      "LarosateID": 29,
      "OrtID": 7
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        "en": "G\u00e4llivare"
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      "LarosateID": 29,
      "OrtID": 320
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    {
      "Benamning": {
        "sv": "Konstfack",
        "en": "University of Arts, Crafts and Design"
      },
      "Beskrivning": {},
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```

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      "ID": "147750",
      "Kod": "KONSTFACK",
      "LarosateID": 29,
      "OrtID": 18
    },
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      "Benamning": {
        "sv": "KTH Campus",
        "en": "KTH Campus"
      },
      "Beskrivning": {
        "sv": "\"Campus\" Valhallav\u00e4gen"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-20"
      },
      "ID": "135195",
      "Kod": "KTHCAMPUS",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
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        "sv": "Smedjebacken",
        "en": "Smedjebacken"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
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      },
      "ID": "157825",
      "Kod": "SMEDJEBACK",
      "LarosateID": 29,
      "OrtID": 260
    },
    {
      "Benamning": {
        "sv": "KTH S\u00f6dert\u00e4lje",
        "en": "KTH S\u00f6dert\u00e4lje"
      },
      "Beskrivning": {
        "sv": "\"Campus\" S\u00f6dert\u00e4lje"
      },
      "Dolt": false,
      "Giltighetsperiod": {
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```

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      },
      "ID": "135196",
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    },
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        "sv": "T\u00e4by",
        "en": "T\u00e4by"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "1999-12-31",
        "Startdatum": "1900-01-01"
      },
      "ID": "131774",
      "Kod": "0160",
      "LarosateID": 29,
      "OrtID": 14
    },
    {
      "Benamning": {
        "sv": "Stockholm",
        "en": "Stockholm"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {
        "Slutdatum": "2019-01-14",
        "Startdatum": "1917-10-19"
      },
      "ID": "131778",
      "Kod": "0180",
      "LarosateID": 29,
      "OrtID": 18
    },
    {
      "Benamning": {
        "sv": "Handelsh\u00f6gskolan",
        "en": "Stockholm School of Economics"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
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      },
      "ID": "135191",
      "Kod": "HANDELS",
      "LarosateID": 29,
```

```
      "OrtID": 18
    },
    {
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        "sv": "Jokkmokk",
        "en": "Jokkmokk"
      },
      "Beskrivning": {},
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      },
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      "Kod": "JOKKMOKK",
      "LarosateID": 29,
      "OrtID": 315
    },
    {
      "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"
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      "ID": "161536",
      "Kod": "NORRTAN",
      "LarosateID": 29,
      "OrtID": 28
    },
    {
      "Benamning": {
```

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        "sv": "Pajala",
        "en": "Pajala"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2024-01-13"
      },
      "ID": "157823",
      "Kod": "PAJALA",
      "LarosateID": 29,
      "OrtID": 319
    },
    {
      "Benamning": {
        "sv": "KTH Solna",
        "en": "KTH Solna"
      },
      "Beskrivning": {
        "sv": "SciLife Labs, Solna",
        "en": "SciLife Labs, Solna"
      },
      "Dolt": false,
      "Giltighetsperiod": {
        "Startdatum": "2018-06-18"
      },
      "ID": "135610",
      "Kod": "SCILIFELAB",
      "LarosateID": 29,
      "OrtID": 25
    }
  ]
}
```


20.22 antagningsomgang_JSON

1137 ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1138 ⟨*test functions* 110b⟩+≡

```
def test_antagningsomgang_JSON():
  r = ladok.antagningsomgang_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Antagningsomgang": [
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018",
        "en": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018"
      },
      "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": {},
      "ID": "148458",
      "Kod": "29AKPHT19",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2019-05-15",
      "SistaAnnonseringsdag": "2020-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program HT2022",
        "en": "Application to courses within programme HT2022"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "153586",
      "Kod": "29AKPHT22",
```

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      "SistaAnmalningsdag": "2022-05-16",
      "SistaAnnonseringsdag": "2022-05-16",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program HT2023",
        "en": "Application to courses within programme autumn term 2023"
      },
      "Beskrivning": {},
      "Dolt": true,
      "Giltighetsperiod": {},
      "ID": "155258",
      "Kod": "29AKPHT23",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2023-05-15",
      "SistaAnnonseringsdag": "2023-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program HT2024",
        "en": "Application to courses within programme autumn term 2024"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "159238",
      "Kod": "29AKPHT24",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2024-05-15",
      "SistaAnnonseringsdag": "2024-05-15",
      "Studieavgiftsbelagd": true
    },
    {
      "Benamning": {
        "sv": "Anm\u00e4lan till kurs inom program HT2025",
        "en": "Application to courses within programme autumn term 2025"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "ID": "161940",
      "Kod": "29AKPHT25",
      "LarosateID": 29,
      "SistaAnmalningsdag": "2025-05-15",
      "SistaAnnonseringsdag": "2025-05-15",
      "Studieavgiftsbelagd": true
    },
    {
```

```
      "Benamning": {
        "sv": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00e
        "en": "Civilingenj\u00f6rsval f\u00f6r studenter p\u00e5 civilingenj\u00f6r \u00f6ppen ing\u00e
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "29COPEN24",
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        "en": "Spring Semester 2022"
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708       "SistaAnmalningsdag": "2022-10-17",
709       "SistaAnnonseringsdag": "2023-06-09",
710       "Studieavgiftsbelagd": true
711     }
712   ]
713 }
```

20.23 utbildningstyp_JSON

1152a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1152b ⟨*test functions* 110b⟩+≡

```
def test_utbildningstyp_JSON():
  r = ladok.utbildningstyp_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "Utbildningstyp": [
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      "Benamning": {
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        "en": "Module without scope"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Grundtyp": "MODUL",
      "ID": "3",
      "Kod": "2007MUO",
      "LarosateID": -1,
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            "Varde": "true"
          },
          {
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            "Varde": "false"
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            "Varde": "false"
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      "StudieordningID": 1,
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        "en": "Course, First-cycle"
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        4
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        "en": "Course, Second-cycle"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "NivaInomStudieordningID": 2,
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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        4
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        "en": "Course instance"
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      "Beskrivning": {},
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            "Varde": "true"
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            "Varde": "varning"
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        "en": "Programme"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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        22,
        162240,
        101270,
        24,
        101375
      ]
    },
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        "en": "Programme instance"
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      "Dolt": false,
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              "Varde": "varning"
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              "Varde": "grupp.for.utsokning.grundavanceradniva"
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          22,
          101382,
          101378,
          101381,
          152635,
          162242,
          152633,
          101375,
          101290,
          101374,
          101292,
          162240,
          101270,
          101377,
          101961,
          24,
          152634
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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        101961,
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      "StudieordningID": 2,
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Exchange agreement"
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      "Beskrivning": {},
      "Dolt": false,
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            "Uid": "fa69a5ba-6f95-11eb-998b-eb07df7e45d0",
            "Varde": "false"
          },
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            "Uid": "fa69a5bb-6f95-11eb-998b-eb07df7e45d0",
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        78,
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        24,
        101954
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        "en": "Exchange instance, incoming students"
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      "Beskrivning": {},
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            "Varde": "true"
          },
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            "Varde": "true"
          },
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            "Varde": "true"
          }
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        52,
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        106390,
        101381,
        152635,
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        101380,
        101954,
        101292,
        151504,
        78,
        101951,
        107510,
        101955,
        101950,
        151503,
        24
      ]
    },
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        "sv": "Utbytestillf\u00e4lle, utresande",
        "en": "Exchange instance, outgoing students"
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      "Beskrivning": {},
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      "Giltighetsperiod": {},
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            "Uid": "cc811891-ee40-11e8-9270-17395ad8480f",
            "Varde": "true"
          },
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            "Varde": "true"
          },
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            "Varde": "true"
          }
        ],
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      },
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        101959,
        101731
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs",
        "en": "Course"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "FUPKURS",
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            "Varde": "grupp.for.utsokning.forutbildning"
          },
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        101976
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        "en": "Module"
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      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.forutbildning"
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            "Varde": "false"
          }
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Individual exchange load instance, outgoing third-cycle student"
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      "Beskrivning": {},
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      "ID": "101959",
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            "Varde": "grupp.for.utsokning.forskarniva"
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            "Varde": "true"
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        "en": "Specialisation"
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      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "false"
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            "Varde": "true"
          }
        ],
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            "Varde": "true"
          }
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      "UtbildningstyperInomUtbildningstyp": [
        101965,
        101374,
        105632,
        52,
        101382,
        101381,
        101964,
        101377,
        138460,
        101375
      ]
    },
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        "en": "Individual course, incoming student"
      },
      "Beskrivning": {},
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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            "Varde": "20"
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          {
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            "Varde": "true"
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            "Varde": "false"
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          {
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            "Varde": "true"
          }
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      "StudieordningID": 2,
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      "UtbildningstyperInomUtbildningstyp": []
    },
    {
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      "Benamning": {
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        "en": "Individual course instance, incoming student"
      },
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      "Kod": "1993IKTF",
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
            "Uid": "f8314c8e-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
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            "Uid": "f8314c8f-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
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            "Uid": "f8314c90-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
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      "Benamning": {
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        "en": "Exchange agreement"
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      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "false"
          },
          {
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            "Varde": "true"
          }
        ],
        "Uid": "8ab22e02-a764-11e6-bc5d-3b8bbccc4a18"
      },
      "Sorteringsordning": 7,
      "StudieordningID": 2,
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      "UtbildningstyperInomUtbildningstyp": []
    },
    {
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      "Benamning": {
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        "en": "Exchange instance, outgoing students"
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      "Beskrivning": {},
      "Dolt": false,
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            "Varde": "true"
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        163852
      ]
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        "en": "Specialisation"
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      "Beskrivning": {},
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      "LarosateID": -1,
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            "Varde": "grupp.for.utsokning.forutbildning"
          },
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            "Varde": "true"
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            "Varde": "false"
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      "UtbildningstyperInomUtbildningstyp": [
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        101378
      ]
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    {
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      "Benamning": {
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        "en": "Specialisation instance"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "FUPINRTF",
      "LarosateID": -1,
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            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
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            "Varde": "true"
          },
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            "Varde": "true"
          }
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      "UtbildningstyperInomUtbildningstyp": [
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        22,
        101382,
        101378
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      "Dolt": false,
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            "Varde": "false"
          },
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            "Varde": "false"
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.yhutbildning"
          }
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 5,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
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        "sv": "Modul utan omfattning",
        "en": "Module without scope"
      },
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      "Giltighetsperiod": {},
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      "ID": "101976",
      "Kod": "FUPMUO",
      "LarosateID": -1,
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            "Varde": "false"
          },
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            "Varde": "true"
          },
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            "Varde": "false"
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            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
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            "Uid": "d7c726f4-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
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            "Uid": "d7c726f7-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          }
        ],
        "Uid": "6afb67bd-a772-11e6-bc5d-3b8bbccc4a18"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
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      "Benamning": {
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        "en": "Module without scope"
      },
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      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "101990",
      "Kod": "UPHPMUO",
      "LarosateID": -1,
      "Regelverk": {
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            "Varde": "false"
          },
          {
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            "Varde": "true"
          },
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "20"
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        101991
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        "en": "Course instance"
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        "en": "Course"
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            "Varde": "true"
          },
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            "Varde": "grupp.for.utsokning.forutbildning"
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            "Varde": "20"
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        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
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            "Varde": "grupp.for.utsokning.forutbildning"
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            "Varde": "true"
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        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
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        "en": "Programme"
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        138693
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          }
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          "Varde": "grupp.for.utsokning.polisutbildning"
        },
        {
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        }
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    "StudieordningID": 109831,
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    "UtbildningstyperInomUtbildningstyp": [
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    ]
  },
  {
    "AvserTillfalle": true,
    "Benamning": {
      "sv": "Kurstillf\u00e4lle",
      "en": "Course instance"
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    "Dolt": false,
    "Giltighetsperiod": {},
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    "ID": "109973",
    "Kod": "POLISKTF",
    "LarosateID": -1,
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          "Varde": "true"
        },
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              "Varde": "grupp.for.utsokning.polisutbildning"
            }
          ],
          "Uid": "4eb5ef4d-99f6-11e7-953e-c08a46b0419e"
        },
        "Sorteringsordning": 50,
        "StudieordningID": 109831,
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        ],
        "UtbildningstyperInomUtbildningstyp": []
      },
      {
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        "Benamning": {
          "sv": "Programtillf\u00e4lle",
          "en": "Programme instance"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
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        "Kod": "POLISPRGTF",
        "LarosateID": -1,
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              "Varde": "true"
            },
            {
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              "Varde": "grupp.for.utsokning.polisutbildning"
            }
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          138692,
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        138693,
        109973
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      "Benamning": {
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        "en": "HVE programme"
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      "Beskrivning": {},
      "Dolt": false,
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      "Kod": "YHUTB",
      "LarosateID": -1,
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            "Varde": "true"
          },
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            "Varde": "true"
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            "Varde": "true"
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        101992
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    },
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      "Benamning": {
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        "en": "Course package instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
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      "LarosateID": -1,
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
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            "Varde": "true"
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        101992,
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        "en": "Research project"
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            "Varde": "true"
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            "Uid": "de9fbc7a-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.forskarniva"
          }
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        "en": "Research project instance"
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            "Varde": "true"
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            "Uid": "0249354f-a963-11ea-8eca-41686c5c4a35",
            "Varde": "true"
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.forskarniva"
          }
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        "en": "Course, Third-cycle"
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            "Varde": "true"
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            "Varde": "true"
          }
        ],
        "Uid": "0a468d21-ec60-11e6-8a84-352cf9f6431e"
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      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
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        4
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    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle, forskarniv\u00e5",
        "en": "Course instance, Third-cycle"
      },
      "Beskrivning": {},
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            "Varde": "grupp.for.utsokning.forskarniva"
          }
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Subject, Third-cycle"
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      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "101956",
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      "LarosateID": -1,
      "NivaInomStudieordningID": 3,
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            "Varde": "true"
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          {
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            "Uid": "5431339e-ecf4-11ee-831e-9a115c0740fa",
            "Varde": "grupp.for.utsokning.forskarniva"
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          {
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            "Uid": "5431339d-ecf4-11ee-831e-9a115c0740fa",
            "Varde": "240"
          },
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            "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
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            "Varde": "true"
          }
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        "Uid": "4dccc624-ec60-11e6-8a84-352cf9f6431e"
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      "Sorteringsordning": 6,
      "StudieordningID": 1,
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        151503,
        101375,
        101954
      ]
    },
    {
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      "Benamning": {
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        "en": "Subject instance, Third-cycle"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "true"
          },
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            "Uid": "50893ff9-4b7d-11ec-944c-5226fb2c461c",
            "Varde": "grupp.for.utsokning.forskarniva"
          }
        ],
        "Uid": "347544fd-2bf2-11e7-8421-d64931f94928"
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      "Sorteringsordning": 50,
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        101967,
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        152632,
        138461,
        101375,
        110915,
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        151504,
        101951,
        107510,
        101377,
        101955,
        152631,
        151503
      ]
    },
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      "Benamning": {
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        "en": "Individual exchange load, outgoing third-cycle student"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.forskarniva"
          },
          {
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            "Uid": "d54fe9df-ee3d-11e8-9270-17395ad8480f",
            "Varde": "false"
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            "Regelnamn": "commons.domain.regel.resultat",
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            "Varde": "false"
          },
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            "Varde": "true"
          },
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            "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
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            "Varde": "true"
          }
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      },
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    },
    {
      "AvserTillfalle": false,
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        "sv": "Modul",
        "en": "Module"
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      "Beskrivning": {},
      "Dolt": false,
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      "Grundtyp": "MODUL",
      "ID": "102001",
      "Kod": "UPTMOD",
      "LarosateID": -1,
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        "Regelvarden": [
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            "Uid": "cb08d253-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
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            "Uid": "cb08d254-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          }
        ],
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 9,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
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      "Beskrivning": {},
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      "Kod": "UPTKTF",
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          102000
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        "UtbildningstyperInomUtbildningstyp": []
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          "sv": "Modul",
          "en": "Module"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "Grundtyp": "MODUL",
        "ID": "102003",
        "Kod": "PREPMOD",
        "LarosateID": -1,
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              "Varde": "false"
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              "Varde": "false"
            }
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        "StudieordningID": 14,
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        "UtbildningstyperInomUtbildningstyp": []
      },
      {
        "AvserTillfalle": false,
        "Benamning": {
          "sv": "Kurs",
          "en": "Course"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Giltighetsperiod": {},
        "Grundtyp": "KURS",
        "ID": "102004",
        "Kod": "PREPKURS",
        "LarosateID": -1,
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      "StudieordningID": 14,
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      "UtbildningstyperInomUtbildningstyp": [
        102003
      ]
    },
    {
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      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "UtbildningstyperInomUtbildningstyp": []
    },
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      "Benamning": {
        "sv": "Kurs",
        "en": "Course"
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      "Giltighetsperiod": {},
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      "LarosateID": -1,
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            "Uid": "2f028b08-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
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            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "2f028b09-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "2f028b07-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
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            "Uid": "2f028b0a-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          }
        ],
        "Uid": "c17b77bd-a821-11e6-b02f-d0cc883a47fa"
      },
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      "UtbildningstyperInomUtbildningstyp": [
        102007
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "102007",
      "Kod": "UPVMOD",
      "LarosateID": -1,
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            "Varde": "true"
          },
          {
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            "Uid": "cd8c21a0-e80a-11e8-b1f1-65de97d74aa5",
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
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            "Uid": "cd8c219f-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
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            "Varde": "false"
          }
        ],
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      },
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      "UtbildningstyperInomUtbildningstyp": []
    },
    {
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      "Benamning": {
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        "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
      },
      "Beskrivning": {
        "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
      },
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "105630",
      "Kod": "0793GKURS",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1,
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        "en": "Course, Second-cycle (including attributes from the study regulation of 1993)"
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        101961
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        "en": "Course instance"
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        "en": "Course, Third-cycle (including first-cycle and second-cycle attributes)"
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      "NivaInomStudieordningID": 3,
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            "Varde": "grupp.for.utsokning.forskarniva"
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        "en": "Course instance, Third-cycle (including first-cycle and second-cycle attributes)"
      },
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            "Varde": "grupp.for.utsokning.forskarniva"
          }
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        "Uid": "48f2f1e7-0353-11e8-8ac5-d02de0e647cc"
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      "StudieordningID": 1,
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Course"
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        "en": "Course instance"
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            "Varde": "true"
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      "UtbildningstyperInomUtbildningstyp": []
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      "Benamning": {
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        "en": "Indvidual course instance"
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            "Varde": "true"
          },
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            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.forutbildning"
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      },
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      "StudieordningID": 3,
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Individual course instance, incoming student"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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            "Uid": "e1e91106-9d6b-11e9-b505-4ba9574641db",
            "Varde": "true"
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            "Varde": "true"
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      "Benamning": {
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        "en": "Course package, Third-cycle"
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      "Beskrivning": {},
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            "Varde": "grupp.for.utsokning.forskarniva"
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        110915,
        101954
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        "en": "Course package instance, Third-cycle"
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            }
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          101952,
          101955,
          110915,
          101954
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          "en": "Exchange load instance, outgoing student"
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        "UtbildningstyperInomUtbildningstyp": []
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        "en": "Specialisation"
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            "Varde": "false"
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            "Varde": "true"
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            "Varde": "true"
          }
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        22,
        24,
        101375
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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        22,
        101382,
        101381,
        152635,
        152633,
        101375,
        101374,
        101292,
        101377,
        24,
        152634
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    },
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      "Dolt": false,
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            "Varde": "true"
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            "Varde": "true"
          },
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            "Uid": "bb697502-0505-11ee-b40a-f28ad46341da",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
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      "UtbildningstyperInomUtbildningstyp": [
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        24
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      "Benamning": {
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        "en": "Course package instance"
      },
      "Beskrivning": {},
      "Dolt": false,
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "true"
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      "UtbildningstyperInomUtbildningstyp": [
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        22,
        101381,
        24
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    {
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            "Varde": "true"
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        101371
      ]
    },
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      "Benamning": {
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        "en": "Module"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
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        "Regelvarden": [
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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            "Varde": "false"
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            "Varde": "false"
          }
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        "en": "Programme"
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      "Kod": "1993PRG",
      "LarosateID": -1,
      "NivaInomStudieordningID": 4,
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            "Varde": "true"
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      "UtbildningstyperInomUtbildningstyp": [
        101960
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
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        "en": "Individual first-cycle course, incoming student"
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      "Beskrivning": {},
      "Dolt": false,
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      "ID": "101380",
      "Kod": "2007IKURS",
      "LarosateID": -1,
      "NivaInomStudieordningID": 1,
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            "Varde": "20"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
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            "Varde": "true"
          },
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            "Varde": "true"
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            "Varde": "grupp.for.utsokning.grundavanceradniva"
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            "Varde": "true"
          }
        ],
        "Uid": "7c76367b-7a6b-11e6-8419-0812bb95460f"
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      "Sorteringsordning": 10,
      "StudieordningID": 1,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        3,
        4
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Individuellt kurstillf\u00e4lle",
        "en": "Individual course instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "101381",
      "Kod": "2007IKTF",
      "LarosateID": -1,
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            "Uid": "97513edd-b803-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
            "Uid": "97513ee0-b803-11ed-8cb2-324fb1124949",
            "Varde": "varning"
          },
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            "Varde": "true"
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        105631,
        101380,
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        "en": "Course instance"
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "true"
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      "StudieordningID": 3,
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      "UtbildningstyperInomUtbildningstyp": []
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      "Benamning": {
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        "en": "Exchange load, outgoing student"
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      "Beskrivning": {},
      "Dolt": false,
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      "Benamning": {
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        "en": "Individual exchange load instance, outgoing student"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "101731",
      "Kod": "2007UATTF",
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        104308
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      "UtbildningstyperInomUtbildningstyp": []
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        "en": "Individual load, Third-cycle"
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      "Dolt": false,
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            "Varde": "grupp.for.utsokning.forskarniva"
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        4
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        "en": "Individual load instance, Third-cycle"
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      "Beskrivning": {},
      "Dolt": false,
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            "Varde": "true"
          },
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            "Varde": "true"
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            "Uid": "3de8ee9e-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
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            "Uid": "3de8ee9f-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
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      "UtbildningstyperInomUtbildningstyp": [
        101374,
        101963
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      "Benamning": {
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        "en": "Course, doctoral studies"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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        "en": "Course instance, doctoral studies"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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            "Varde": "grupp.for.utsokning.forskarniva"
          },
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            "Varde": "true"
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      "UtbildningstyperInomUtbildningstyp": []
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      "Benamning": {
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        "en": "Subject, doctoral studies"
      },
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      "Dolt": false,
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            "Varde": "grupp.for.utsokning.forskarniva"
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            "Varde": "240"
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            "Uid": "24c93337-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
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      "Sorteringsordning": 6,
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      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
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      "Benamning": {
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        "en": "Subject instance, doctoral studies"
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            "Varde": "true"
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            "Uid": "1fa82eed-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.forskarniva"
          }
        ],
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      },
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      "StudieordningID": 2,
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        101968,
        101951,
        107510,
        101377,
        101955
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        "en": "Programme"
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "103685d3-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
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            "Varde": "true"
          },
          {
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            "Uid": "103685d1-e0df-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.forutbildning"
          }
        ],
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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",
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      "Kod": "FUPPRGTF",
      "LarosateID": -1,
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          {
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            "Uid": "1facc718-b804-11ed-8cb2-324fb1124949",
            "Varde": "varning"
          },
          {
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            "Varde": "true"
          },
          {
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            "Varde": "true"
          },
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            "Uid": "1facc715-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          }
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      },
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      "StudieordningID": 3,
      "TillfalleInomUtbildningstyper": [
        101971
      ],
      "UtbildningstyperInomUtbildningstyp": [
        101973,
        52,
        22,
        101382,
        101378,
        148155,
        101974
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs, avancerad niv\u00e5",
        "en": "Course, Second-cycle"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
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            "Varde": "20"
          },
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "true"
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            "Varde": "true"
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      "StudieordningID": 17,
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      "UtbildningstyperInomUtbildningstyp": [
        101990,
        101991
      ]
    },
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      "Benamning": {
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        "en": "Course instance"
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      "Giltighetsperiod": {},
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      "ID": "101994",
      "Kod": "UPHPKTF",
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            "Uid": "95b787c3-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
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            "Varde": "true"
          },
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            "Uid": "95b787c4-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
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            "Uid": "95b787c2-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
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      },
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      "StudieordningID": 17,
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        101993,
        101992
      ],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Inriktning",
        "en": "Specialisation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "101995",
      "Kod": "UPHPINR",
      "LarosateID": -1,
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            "Uid": "165fbc80-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
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            "Uid": "165fbc7f-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
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            "Uid": "165fbc81-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
        ],
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      "Sorteringsordning": 50,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        101993,
        101992
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Inriktningstillf\u00e4lle",
        "en": "Specialisation instance"
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      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "Kod": "UPHPINRTF",
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            "Uid": "27d2e6e0-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "27d2e6df-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
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            "Uid": "27d2e6de-e80a-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          }
        ],
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      "Sorteringsordning": 50,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [
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      ],
      "UtbildningstyperInomUtbildningstyp": [
        101993,
        101992,
        101994
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Program",
        "en": "Programme"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101998",
      "Kod": "UPHPPRG",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "5ed3e84f-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
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            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
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            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
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            "Uid": "5ed3e850-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
            "Uid": "5ed3e84e-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          }
        ],
        "Uid": "bc5d54af-ec5f-11e6-8a84-352cf9f6431e"
      },
      "Sorteringsordning": 4,
      "StudieordningID": 17,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
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        101992,
        101995
      ]
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Programtillf\u00e4lle",
        "en": "Programme instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "101999",
      "Kod": "UPHPPRGTF",
      "LarosateID": -1,
      "Regelverk": {
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            "Uid": "6fb1651d-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan.utannonseras",
            "Uid": "6fb1651e-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
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            "Varde": "true"
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            "Uid": "6fb1651b-b804-11ed-8cb2-324fb1124949",
            "Varde": "grupp.for.utsokning.uppdragsutbildning"
          },
          {
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            "Uid": "6fb1651f-b804-11ed-8cb2-324fb1124949",
            "Varde": "varning"
          }
        ],
        "Uid": "005dddab-4c22-11e7-8c70-788c557b416a"
      },
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      "StudieordningID": 17,
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      "UtbildningstyperInomUtbildningstyp": [
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        101996,
        101992,
        101994,
        101995
      ]
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    {
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      "Benamning": {
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        "en": "Course"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "102000",
      "Kod": "UPTKURS",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [],
        "Uid": "60bf6ffe-a81f-11e6-b02f-d0cc883a47fa"
      },
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      "StudieordningID": 9,
      "TillfalleInomUtbildningstyper": [],
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      "UtbildningstyperInomUtbildningstyp": [
        102001
      ]
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      "Benamning": {
        "sv": "Program",
        "en": "Programme"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "102070",
      "Kod": "FUVPRG",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
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            "Uid": "ff1795fe-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "ff1795fd-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "ff179600-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "ff1795ff-e0de-11ec-bb44-ad608ddd4f32",
            "Varde": "true"
          }
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        "Uid": "56914cc6-ec5f-11e6-8a84-352cf9f6431e"
      },
      "Sorteringsordning": 4,
      "StudieordningID": 4,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        22,
        102009,
        102072
      ]
    },
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    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Programtillf\u00e4lle",
        "en": "Programme instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "102071",
      "Kod": "FUVPRGTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
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            "Uid": "4562665f-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
            "Uid": "45626662-b804-11ed-8cb2-324fb1124949",
            "Varde": "varning"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "4562665e-b804-11ed-8cb2-324fb1124949",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
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            "Uid": "45626660-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan.utannonseras",
            "Uid": "45626661-b804-11ed-8cb2-324fb1124949",
            "Varde": "true"
          }
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        "Uid": "0060eaf7-4c22-11e7-8c70-788c557b416a"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 4,
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      ],
      "UtbildningstyperInomUtbildningstyp": [
        52,
        22,
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        102011,
        102073,
        102009,
        102072
      ]
    },
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      "Benamning": {
        "sv": "Inriktning",
        "en": "Specialisation"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "102072",
      "Kod": "FUVINR",
      "LarosateID": -1,
      "Regelverk": {
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            "Varde": "true"
          },
          {
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            "Uid": "31ef0a89-c4d8-11e9-ae13-dc75864a44bd",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
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            "Uid": "31ef0a8c-c4d8-11e9-ae13-dc75864a44bd",
            "Varde": "false"
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            "Uid": "31ef0a8b-c4d8-11e9-ae13-dc75864a44bd",
            "Varde": "true"
          }
        ],
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      },
      "Sorteringsordning": 50,
      "StudieordningID": 4,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        22,
        102009
      ]
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    },
    {
      "AvserTillfalle": true,
      "Benamning": {
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        "en": "Specialisation instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURSPAKETERING",
      "ID": "102073",
      "Kod": "FUVINRTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "d042ceeb-c4d8-11e9-ae13-dc75864a44bd",
            "Varde": "grupp.for.utsokning.forutbildning"
          },
          {
            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
            "Uid": "d042ceed-c4d8-11e9-ae13-dc75864a44bd",
            "Varde": "true"
          }
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        "Uid": "3d290b1f-8d66-11e7-ab6f-ced203c74a20"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 4,
      "TillfalleInomUtbildningstyper": [
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      "UtbildningstyperInomUtbildningstyp": [
        52,
        22,
        102011,
        102009
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Utbytes\u00e5tagande, utresande",
        "en": "Exchange load, outgoing student"
```

```
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
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      "ID": "103210",
      "Kod": "1993UAT",
      "LarosateID": -1,
      "NivaInomStudieordningID": 4,
      "Regelverk": {
        "Regelvarden": [
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            "Uid": "3086e12a-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
            "Uid": "3086e12b-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "20"
          },
          {
            "Regelnamn": "commons.domain.regel.resultat",
            "Uid": "3086e12e-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
            "Uid": "3086e12d-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
            "Uid": "3086e12f-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "3086e12c-e80b-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          }
        ],
        "Uid": "970d435e-df08-11e6-a087-d9bc48df4ffb"
      },
      "Sorteringsordning": 11,
      "StudieordningID": 2,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": true,
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      "Benamning": {
        "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
        "en": "Individual exchange load instance, outgoing student"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "103211",
      "Kod": "1993UATTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
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            "Uid": "fd7baaa1-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
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            "Uid": "fd7baaa2-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
            "Uid": "fd7baaa0-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
            "Uid": "fd7baaa3-e809-11e8-b1f1-65de97d74aa5",
            "Varde": "true"
          }
        ],
        "Uid": "612e1b35-df09-11e6-a087-d9bc48df4ffb"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 2,
      "TillfalleInomUtbildningstyper": [
        103210
      ],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Individuellt utbytes\u00e5tagande, utresande",
        "en": "Individual exchange load, outgoing student"
      },
      "Beskrivning": {},
      "Dolt": false,
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      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "104308",
      "Kod": "2007IUAT",
      "LarosateID": -1,
      "Regelverk": {
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            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
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            "Varde": "true"
          },
          {
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            "Uid": "d658ffca-ee3e-11e8-9270-17395ad8480f",
            "Varde": "grupp.for.utsokning.grundavanceradniva"
          },
          {
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            "Uid": "d658ffc6-ee3e-11e8-9270-17395ad8480f",
            "Varde": "20"
          },
          {
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            "Uid": "d658ffcb-ee3e-11e8-9270-17395ad8480f",
            "Varde": "false"
          },
          {
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            "Uid": "d658ffc9-ee3e-11e8-9270-17395ad8480f",
            "Varde": "true"
          },
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            "Uid": "d658ffcc-ee3e-11e8-9270-17395ad8480f",
            "Varde": "false"
          }
        ],
        "Uid": "c587e866-0da6-11e7-b8b0-4d9918684924"
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        "en": "Programme"
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        121173
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        "en": "Programme instance"
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      "Dolt": false,
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        "en": "Specialisation"
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        "en": "Course"
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        "en": "Module without scope"
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        "en": "Programme instance"
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            "Varde": "true"
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        101378
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        "en": "Course package instance"
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      "Dolt": false,
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      "Kod": "FUPKPTF",
      "LarosateID": -1,
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            "Varde": "true"
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            "Varde": "varning"
          },
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          }
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            "Varde": "false"
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    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs",
        "en": "Course"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "161486",
      "Kod": "PISKURS",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "9147212c-edeb-11ef-827b-ee188a544698",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "9147212b-edeb-11ef-827b-ee188a544698",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Uid": "9147212a-edeb-11ef-827b-ee188a544698",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
            "Uid": "9147212d-edeb-11ef-827b-ee188a544698",
            "Varde": "15"
          }
        ],
        "Uid": "5d93f8fe-e879-11ef-870b-0958b8b64637"
      },
      "Sorteringsordning": 50,
```

```
      "StudieordningID": 161480,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": [
        161528,
        161487
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul utan omfattning",
        "en": "Module without scope"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "161487",
      "Kod": "PISMUO",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "af65b621-e879-11ef-870b-0958b8b64637",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "af65b61f-e879-11ef-870b-0958b8b64637",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "af65b620-e879-11ef-870b-0958b8b64637",
            "Varde": "false"
          }
        ],
        "Uid": "af65b61e-e879-11ef-870b-0958b8b64637"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 161480,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
      },
```

```
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "161488",
      "Kod": "PISKTF",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [],
        "Uid": "fb3b5073-e879-11ef-870b-0958b8b64637"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 161480,
      "TillfalleInomUtbildningstyper": [
        161486
      ],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "161528",
      "Kod": "PISMOD",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "82a162e7-eddb-11ef-827b-ee188a544698",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "82a162e8-eddb-11ef-827b-ee188a544698",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "82a114c6-eddb-11ef-827b-ee188a544698",
            "Varde": "false"
          }
        ],
        "Uid": "82a114c5-eddb-11ef-827b-ee188a544698"
      },
```

```
      "Sorteringsordning": 50,
      "StudieordningID": 161480,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Kurs",
        "en": "Course"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "KURS",
      "ID": "162240",
      "Kod": "PIPTKURS",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
            "Uid": "60541f97-3712-11f0-acdb-b265373e47d4",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.avbrottsregel",
            "Uid": "60541f95-3712-11f0-acdb-b265373e47d4",
            "Varde": "15"
          },
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "60541f96-3712-11f0-acdb-b265373e47d4",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "60541f99-3712-11f0-acdb-b265373e47d4",
            "Varde": "true"
          },
          {
            "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
            "Uid": "60541f98-3712-11f0-acdb-b265373e47d4",
            "Varde": "true"
          }
        ],
        "Uid": "fbe2ecd6-3711-11f0-acdb-b265373e47d4"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 162110,
      "TillfalleInomUtbildningstyper": [],
```

```
      "UtbildningstyperInomUtbildningstyp": [
        162241
      ]
    },
    {
      "AvserTillfalle": false,
      "Benamning": {
        "sv": "Modul",
        "en": "Module"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
      "Grundtyp": "MODUL",
      "ID": "162241",
      "Kod": "PIPTMOD",
      "LarosateID": -1,
      "Regelverk": {
        "Regelvarden": [
          {
            "Regelnamn": "commons.domain.regel.versionshanteras",
            "Uid": "2f6b3787-3712-11f0-acdb-b265373e47d4",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.sjalvstandig",
            "Uid": "2f6b3788-3712-11f0-acdb-b265373e47d4",
            "Varde": "false"
          },
          {
            "Regelnamn": "commons.domain.regel.har.omfattning",
            "Uid": "2f6b3786-3712-11f0-acdb-b265373e47d4",
            "Varde": "true"
          }
        ],
        "Uid": "2f6b3785-3712-11f0-acdb-b265373e47d4"
      },
      "Sorteringsordning": 50,
      "StudieordningID": 162110,
      "TillfalleInomUtbildningstyper": [],
      "UtbildningstyperInomUtbildningstyp": []
    },
    {
      "AvserTillfalle": true,
      "Benamning": {
        "sv": "Kurstillf\u00e4lle",
        "en": "Course instance"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Giltighetsperiod": {},
```

```
6442        "Grundtyp": "KURS",
6443        "ID": "162242",
6444        "Kod": "PIPTKTF",
6445        "LarosateID": -1,
6446        "Regelverk": {
6447          "Regelvarden": [],
6448          "Uid": "54192bad-3712-11f0-acdb-b265373e47d4"
6449        },
6450        "Sorteringsordning": 50,
6451        "StudieordningID": 162110,
6452        "TillfalleInomUtbildningstyper": [
6453          162240
6454        ],
6455        "UtbildningstyperInomUtbildningstyp": []
6456      }
6457    ]
6458  }
```

20.24 aktivitetstillfallestyp_JSON

1279a ⟨*LadokSession data methods* 104c⟩+≡

```
  # 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.

1279b ⟨*test functions* 110b⟩+≡

```
  def test_aktivitetstillfallestyp_JSON():
    r = ladok.aktivitetstillfallestyp_JSON()
    assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
1  {
2    "Aktivitetstillfallestyp": [
3      {
4        "Benamning": {
5          "sv": "Digital omtentamen (LIS)",
6          "en": "E-examination, resit (LIS)"
7        },
8        "Beskrivning": {},
9        "Dolt": true,
10       "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": "\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

1284a ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1284b ⟨*test functions* 110b⟩+≡

```
def test_catalog_service_index_JSON():
  r = ladok.catalog_service_index_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:

```
{
  "ServiceName": "Ladok3 intern REST-tj\u00e4nst f\u00f6r kataloginformation"
}
```

20.26 omradesbehorighet_JSON

1284c ⟨*LadokSession data methods* 104c⟩+≡

```
# 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.

1284d ⟨*test functions* 110b⟩+≡

```
def test_omradesbehorighet_JSON():
  r = ladok.omradesbehorighet_JSON()
  assert type(r) == dict
```

This code is used in chunk 100.

The output looks like this:


```
{
  "Omradesbehorighet": [
    {
      "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": "A5/5",
        "en": "A5/5"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "5",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "5",
      "Kod": "5",
      "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 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 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": "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": "A7/7",
        "en": "A7/7"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "7",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "10",
      "Kod": "7",
      "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": "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": "A14/16",
        "en": "A14/16"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "16",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "19",
      "Kod": "16",
      "LarosateID": -1
    },
    {
      "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": "A12/12",
        "en": "A12/12"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "12",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "15",
      "Kod": "12",
      "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
    },
    {
      "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": "A10/10",
        "en": "A10/10"
      },
      "Beskrivning": {},
      "Dolt": false,
      "Emilvarde": "10",
      "Giltighetsperiod": {
        "Slutdatum": "2022-06-01"
      },
      "ID": "13",
      "Kod": "10",
      "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": "A3/3",
          "en": "A3/3"
        },
        "Beskrivning": {},
        "Dolt": false,
        "Emilvarde": "3",
        "Giltighetsperiod": {
          "Slutdatum": "2022-06-01"
        },
        "ID": "3",
        "Kod": "3",
        "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`

1292 ⟨*LadokSession data methods* 1292⟩≡

```
######################################################################
#
# 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 1296–1300.
Root chunk (not used in this document).

21.2 get_student_data, get_student_name

1296 ⟨*LadokSession data methods* 1292⟩+≡

```
  ##########################################################################
  #
  # 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.

1297a ⟨*LadokSession data methods* 1292⟩+≡

```
  # 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.

1297b ⟨*LadokSession data methods* 1292⟩+≡

```
  # 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.

1298a ⟨*LadokSession data methods* 1292⟩+≡

```
  # 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

1298b ⟨*LadokSession data methods* 1292⟩+≡

```
  # 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.

1299a ⟨*LadokSession data methods* 1292⟩+≡

```
# 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.

1299b ⟨*LadokSession data methods* 1292⟩+≡

```
# 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.

1299c ⟨*LadokSession data methods* 1292⟩+≡

```
  # 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.

1300a ⟨*test functions* 1300a⟩≡

```
  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

1300b ⟨*LadokSession data methods* 1292⟩+≡

```
  ######################################################################
  ##
  ## 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']]
  }
```