A LADOK3 Python API

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16th February 2023

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Abstract

We provide a Python wrapper for the LADOK3 REST API. We provide a useful object-oriented framework and direct API calls that return the unprocessed JSON data from 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 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 pip3 install ladok3
```

in the terminal. You can find a quick reference by running

```
2 pydoc ladok3
```

We provide the main class `LadokSession` (Section 3.1). The `LadokSession` class acts like 'factories' and will return objects representing various LADOK data. These data objects' classes inherit the `LadokData` (Section 3.2.1) and `LadokRemoteData` (Section 3.2.3) 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.

Part I

The library

Chapter 2

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* 5a⟩ and some helper functions in ⟨*functions* 10⟩.

3a ⟨*ladok3.py* 3a⟩≡

```
"""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
import urllib.parse
import weblogin.ladok

⟨classes 5a⟩
⟨functions 10⟩
```

We also provide tests for all functionality in ⟨*test ladok3.py* 3b⟩. These illustrate how to the `ladok3` module and provide testing using `pytest`.

3b ⟨*test ladok3.py* 3b⟩≡

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

⟨test functions 5b⟩
```

Chapter 3

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

```

This chapter covers how the `LadokSession` class work. The remaining chapters cover what the `ladok` object can be used for. Chapter 6 covers how we can work with student data. Chapter 7 covers how we can work with course data.

3.1 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 3.2.

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 sys-

tem. We will use the `weblogin` package[1] to handle this. This will guarantee that we're always signed in.

5a ⟨*classes* 5a⟩≡ (3a) 7a▷

```
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 6⟩
    ⟨LadokSession constructor body 9⟩

  @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 14⟩
```

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).

5b ⟨*test functions* 5b⟩≡ (3b) 11a▷

```
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():
```

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

```
    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()
```

3.1.1 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.

6 ⟨*construct the session object from the autologin handlers* 6⟩≡ (5a)

```
  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)
```

3.2 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.

3.2.1 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.

7a ⟨*classes* 5a⟩+≡ (3a) ◁5a 8a▷

```
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 8b⟩

  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
```

3.2.2 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.

7b ⟨*function* 7b⟩≡

```
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")
```

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

8a ⟨*classes* 5a⟩+≡ (3a) ◁7a 8c▷

```
class LadokDataEncoder(json.JSONEncoder):
  def default(self, object):
    if isinstance(object, LadokData):
      return object.json
    return super().default(object)
```

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.

8b ⟨*set up read-only properties* 8b⟩≡ (7a)

```
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)))
```

3.2.3 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`).

8c ⟨*classes* 5a⟩+≡ (3a) ◁8a 17a▷

```
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")
```

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

3.2.4 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.

9 ⟨*LadokSession constructor body* 9⟩≡ (5a)

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

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 4

Helper functions

We have several helper functions that are useful throughout.

4.1 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.

10 ⟨*functions* 10⟩≡ (3a) 11b▷

```
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)
```

We test this function with the following tests.

11a ⟨*test functions* 5b⟩+≡ (3b) ◁5b 12a▷

```
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
```

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.

11b ⟨*functions* 10⟩+≡ (3a) ◁10 12b▷

```
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
```

We test this function with the following tests.

12a ⟨*test functions* 5b⟩+≡ (3b) ◁11a 13a▷

```
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
```

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$`.

12b ⟨*functions* 10⟩+≡ (3a) ◁11b 13b▷

```
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
```

We test this function with the following tests.

13a ⟨*test functions* 5b⟩+≡ (3b) ◁12a

```
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)
```

4.2 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`.

13b ⟨*functions* 10⟩+≡ (3a) ◁12b 21b▷

```
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}")
```

Chapter 5

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.

5.1 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.

14 ⟨*LadokSession data methods* 14⟩≡ (5a) 20▷

```
@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)
```

The `grade_scales_JSON` method is part of the LADOK API and is documented in Section 10.1.

5.2 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": "AF",
```

```
    "en": "AF"
  },
  "Beskrivning": {},
  "Betygsgrader": [
    {
      "Benamning": {
        "sv": "Utm\u00e4rkt",
        "en": "Excellent"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131661",
      "Kod": "A",
      "Ordningsnummer": 1,
      "link": []
    },
    {
      "Benamning": {
        "sv": "Mycket bra",
        "en": "Very Good"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131667",
      "Kod": "B",
      "Ordningsnummer": 2,
      "link": []
    },
    {
      "Benamning": {
        "sv": "Bra",
        "en": "Good"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131673",
      "Kod": "C",
      "Ordningsnummer": 3,
      "link": []
    },
    {
      "Benamning": {
        "sv": "Tillfredsst\u00e4llande",
        "en": "Satisfactory"
      },
      "Dolt": false,
      "GiltigSomSlutbetyg": true,
      "ID": "131679",
      "Kod": "D",
      "Ordningsnummer": 4,
```

```
        "link": []
      },
      {
        "Benamning": {
          "sv": "Tillr\u00e4cklig",
          "en": "Sufficient"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": true,
        "ID": "131691",
        "Kod": "E",
        "Ordningsnummer": 5,
        "link": []
      },
      {
        "Benamning": {
          "sv": "Underk\u00e4nd",
          "en": "Not satisfactory"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131696",
        "Kod": "FX",
        "Ordningsnummer": 6,
        "link": []
      },
      {
        "Benamning": {
          "sv": "Underk\u00e4nd",
          "en": "Failed"
        },
        "Dolt": false,
        "GiltigSomSlutbetyg": false,
        "ID": "131697",
        "Kod": "F",
        "Ordningsnummer": 7,
        "link": []
      }
    ],
    "Dolt": false,
    "Giltighetsperiod": {
      "Startdatum": "2007-07-01",
      "link": []
    },
    "ID": "131657",
    "Kod": "AF",
    "LarosateID": 29,
    "link": []
}
```

This makes the follow class design suitable.

17a ⟨*classes* 5a⟩+≡ (3a) ◁8c 17b▷

```
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 18a⟩

  def __iter__(self):
    ⟨iterate over grades in grading scale 18b⟩
```

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.

17b ⟨*classes* 5a⟩+≡ (3a) ◁17a 21a▷

```
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)}")
```

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

18a ⟨*test if grade is in grading scale* 18a⟩≡ (17a)

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

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.

18b ⟨*iterate over grades in grading scale* 18b⟩≡ (17a)

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

Chapter 6

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.kth
import os

ladok = ladok3.kth.LadokSession(
        os.environ["KTH_LOGIN"], os.environ["KTH_PASSWD"],
        test_environment=True) # for experiments
```

This is the same as in Chapter 3.

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

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

print(f"{me.personnummer} {me.last_name}, {me.first_name}")
print(f"{me2.personnummer} {me2.last_name}, {me2.first_name}")
print(f"{me.ladok_id} == {me2.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).

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

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

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

print(f"{course.code} results:")
for result in course.results():
    s = f"{course.code}"
```

```
24      if result.component:
25          s += f" {result.component}"
26      s += f" {result.grade}"
27      if result.attested:
28          s += f" ({result.date})"
29      print(s)
```

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

```
32  student = ladok.get_student("1234561234")
33  datintro = student.courses(code="DD1301")[0]
34
35  print(f"{student.personnummer} {student.first_name} {student.last_name}")
36
37  for result in datintro.results():
38      print(f"{result.component} {result.grade} ({result.date})", end="")
39      if not result.attested:
40          print("*")
41      else:
42          print()
43
44  print("Changing grades")
45
46  try:
47      lab1 = datintro.results(component="LAB1")[0]
48      lab1.set_grade("P", "2022-11-18")
49      lab1.finalize()
50  except Exception as err:
51      print(f"Couldn't change LAB1: {err}")
```

6.1 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.

20 ⟨*LadokSession data methods* 14⟩+≡ (5a) ◁14 25▷

```
@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)
```

6.2 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`.

21a ⟨*classes* 5a⟩+≡ (3a) ◁17b 26▷

```
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 23a⟩

  ⟨student attribute methods 22⟩
```

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.

21b ⟨*functions* 10⟩+≡ (3a) ◁13b

```
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
```

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

6.3 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.

22 ⟨*student attribute methods* 22⟩≡ (21a) 23c▷

```
def __get_personal_attributes(self):
  """Helper method that fetches personal attributes"""
  ⟨pull student attributes from LADOK 23b⟩

@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
```

Then we can call that method to update all attributes.

23a ⟨*pull all attributes from LADOK* 23a⟩≡ (21a) 24a▷

```
self.__get_personal_attributes()
```

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.

23b ⟨*pull student attributes from LADOK* 23b⟩≡ (22)

```
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']
```

6.4 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.

23c ⟨*student attribute methods* 22⟩+≡ (21a) ◁22

```
def __get_study_attributes(self):
  """Helper method to fetch study related attributes"""
  ⟨create a list of the student's course objects 24b⟩

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)
```

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

24a ⟨*pull all attributes from LADOK* 23a⟩+≡ (21a) ◁23a

```
self.__get_study_attributes()
```

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

24b ⟨*create a list of the student's course objects* 24b⟩≡ (23c)

```
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"]))
```

Chapter 7

Courses

We can use the course-related classes as follows.

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

ladok = ladok3.kth.LadokSession(
        os.environ["KTH_LOGIN"], os.environ["KTH_PASSWD"],
        test_environment=True) # for experiments

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

for prgi in prgiX:
    print(f"{prgi.code} {prgi.start}--{prgi.end}")
print()

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

7.1 Course rounds

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

25 ⟨*LadokSession data methods* 14⟩+≡ (5a) ◁20

```
  @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]
```

The response consists of this JSON data:

```
{
  "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
  }
}
```

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).

26 ⟨*classes* 5a⟩+≡ (3a) ◁21a 31b▷

```
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 28⟩

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 27⟩

  @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 33a⟩
```

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.

27 ⟨*prepare kwargs and call CourseInstance constructor* 27⟩≡ (26)

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

7.2 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. This leaves the following methods.

28 ⟨*CourseInstance methods* 28⟩≡ (26)

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

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

def __assign_attr(self, data):
  ⟨assign CourseInstance data to private attributes 31a⟩

def __pull_attributes(self):
  ⟨fetch CourseInstance data object from LADOK 29⟩
  self.__assign_attr(data)

def pull(self):
  self.__pull_attributes()

@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)
```

Now we must fetch data from LADOK.

29 ⟨*fetch CourseInstance data object from LADOK* 29⟩≡ (28)

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

Then data will be populated with the following values:

```
{
  "AntalRegistrerade": 0,
  "Benamning": {
    "sv": "Programmeringsteknik och Matlab",
    "en": "Programming Techniques and Matlab"
  },
  "BetygsskalaID": 131657,
  "Enhet": "HP",
  "GallerUtbildningUtanAngivenOmfattning": false,
  "IngaendeMoment": [
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "38a66848-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "38a6416f-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB1"
    },
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
```

```
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "38a1d44d-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "38a1867d-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB2"
    },
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131657,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 3.0,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "389b1e62-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "389b1dda-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "LAB3"
    },
    {
      "Benamning": {
        "sv": "Laborationer",
        "en": "Programming Assignments"
      },
      "BetygsskalaID": 131656,
      "Enhet": "HP",
      "GallerUtbildningUtanAngivenOmfattning": false,
      "KravPaProjekttitel": false,
      "Omfattning": 1.5,
      "ResultatrapporteringMojlig": true,
      "UtbildningUID": "387c99a9-73d8-11e8-afa7-8e408e694e54",
      "UtbildningsinstansUID": "387c7248-73d8-11e8-b4e0-063f9afb40e3",
      "Utbildningskod": "MAT1"
    }
  ],
  "KravPaProjekttitel": false,
  "Kurstillfalleskod": "51872",
  "Omfattning": 7.5,
  "ResultatrapporteringMojlig": true,
  "Slutdatum": "2022-01-17 ",
  "Startdatum": "2021-08-30 ",
  "Studietaktsbenamning": {
    "sv": "Kvartsfart",
    "en": "One-quarter-time"
  },
  "Takt": 25,
```

```
  "Undervisningsformbenamning": {
    "sv": "Normal",
    "en": "Normal teaching"
  },
  "UtbildningUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
  "UtbildningsinstansUID": "9f30cc02-d6b5-11e8-8fd5-cf9d2c5c41ba",
  "Utbildningskod": "DD1315",
  "Versionsnummer": 2
}
```

Now that we have the `data` object, we can assign its values to the private attributes.

31a ⟨*assign CourseInstance data to private attributes* 31a⟩≡ (28)

```
self.__education_id = data.pop("UtbildningUID")

self.__code = data.pop("Utbildningskod")
self.__name = data.pop("Benamning")
self.__version = data.pop("Versionsnummer")

self.__credits = data.pop("Omfattning")
self.__unit = data.pop("Enhet")

self.__grade_scale = self.ladok.get_grade_scales(
  id=data.pop("BetygsskalaID"))

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

7.3 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.

31b ⟨*classes* 5a⟩+≡ (3a) ◁26 35▷

```
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")
    self.__unit = kwargs.pop("Enhet")

    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__
```

We have the latter method, `__eq__`, so that we can filter on keys and compare with strings.

7.4 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.

33a ⟨*CourseRound data methods* 33a⟩≡ (26) 33b▷

```
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)
```

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

33b ⟨*CourseRound data methods* 33a⟩+≡ (26) ◁33a 33c▷

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

7.5 Participants for a course round

We want to get a list of participants for a course round, i.e., a list of `Student` objects.

33c ⟨*CourseRound data methods* 33a⟩+≡ (26) ◁33b 34▷

```
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)
```

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.

34 ⟨*CourseRound data methods* 33a⟩+≡ (26) ◁33c

```
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"]))
```

Chapter 8

Course objects related to students

8.1 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.

35 ⟨*classes* 5a⟩+≡ (3a) ◁31b 37b▷

```
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")

    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} ({self.start}-{self.end})"

  def __repr__(self):
    return f"{self.code}:{self.round_code}:{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 36⟩
    ⟨add new CourseResult objects for missing components 37a⟩

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

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.

36 ⟨*pull existing CourseResult objects from LADOK* 36⟩≡ (35)

```
response = self.ladok.student_results_JSON(
  self.__student.ladok_id, self.education_id
)["Kursversioner"][0]

#self.__results_id = response["Uid"]
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
```

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

37a ⟨*add new CourseResult objects for missing components* 37a⟩≡ (35)

```
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))
```

8.2 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.

37b ⟨*classes* 5a⟩+≡ (3a) ◁35

```
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 39b⟩
  else:
    ⟨populate CourseResult attributes from data 39a⟩

@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 40a⟩

  self.__modified = True
  self.push()

def finalize(self, notify=False):
  """Finalizes the set grade"""
  if self.modified:
    self.push()

  ⟨finalize the grade for CourseResult 41⟩

@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 push(self):
      if self.__uid:
        ⟨push the existing CourseResult grade data to LADOK 40b⟩
      else:
        ⟨push the new CourseResult grade data to LADOK 40c⟩
      self.__modified = False
```

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

39a ⟨*populate CourseResult attributes from data* 39a⟩≡ (37b)

```
  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
```

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

39b ⟨*populate CourseResult attributes for empty result* 39b⟩≡ (37b)

```
  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
```

8.2.1 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.

40a ⟨*set the grade for CourseResult* 40a⟩≡ (37b)

```
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
```

8.2.2 Working with existing results

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

40b ⟨*push the existing CourseResult grade data to LADOK* 40b⟩≡ (37b)

```
try:
  response = self.ladok.update_result_JSON(
    self.__uid, self.grade.id, self.date.isoformat(), self.__last_modified
  )
except Exception as err:
  raise Exception(
    f"couldn't update {self.component.code} to {self.grade} ({self.date})"
    f" to LADOK: {err}"
  )

self.__populate_attributes(**response)
```

8.2.3 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.

40c ⟨*push the new CourseResult grade data to LADOK* 40c⟩≡ (37b)

```
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 Exception("Couldn't register "
      f"{self.component} {self.grade} {self.date}: {err}")

  self.__populate_attributes(**response)
```

8.2.4 Finalizing a result

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

41 ⟨*finalize the grade for CourseResult* 41⟩≡ (37b)

```
  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
    )
  else:
    response = self.ladok.finalize_result_JSON(
      self.__results_id, self.__last_modified, reporter_id
    )

  self.__populate_attributes(**response)
```

Part II

API calls

Chapter 9

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.

9.1 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.

43 ⟨*test api.py* 43⟩≡

```
import json
import ladok3
import os

ladok = ladok3.LadokSession(
            os.environ["LADOK_INST"],
            vars={"username": os.environ["LADOK_USER"],
                  "password": os.environ["LADOK_PASS"]},
            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 48b⟩
```

We will then add `test_X()` functions in the ⟨*test functions* 48b⟩ 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.

9.2 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.

9.2.1 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://www.test.ladok.se`[1]

44a ⟨*LadokSession constructor body* 44a⟩≡ 44b▷

```
self.base_url = "https://www.start.ladok.se" if not test_environment \
  else "https://www.test.ladok.se"
self.base_gui_url = self.base_url + "/gui"
self.base_gui_proxy_url = self.base_gui_url + "/proxy"
```

We also set the headers that we will accept.

44b ⟨*LadokSession constructor body* 44a⟩+≡ ◁44a 46b▷

```
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' }
```

9.2.2 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 9.2.3.

44c ⟨*LadokSession data methods* 44c⟩≡ 46a▷

```
def get_query(self, path, content_type="application/vnd.ladok-resultat+json"):
  """Returns GET query response for path on the LADOK server"""
  headers = self.headers.copy()
```

[1] According to `https://ladok.se/drift-och-support/produktionsmiljo-for-nya-ladok`.

```
    headers["Content-Type"] = content_type

    ⟨record time of request 46c⟩

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

  def put_query(self, path, put_data,
    content_type="application/vnd.ladok-resultat+json"):
    """Returns PUT query response for path on the LADOK server"""
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    return self.session.put(
      url=self.base_gui_proxy_url + path,
      json=put_data,
      headers=headers)

  def post_query(self, path, post_data,
    content_type="application/vnd.ladok-resultat+json"):
    """Returns POST query response for path on the LADOK server"""
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    return self.session.post(
      url=self.base_gui_proxy_url + path,
      json=post_data,
      headers=headers)

  def del_query(self, path):
    """Returns GET query response for path on the LADOK server"""
    headers = self.headers.copy()
    headers["X-XSRF-TOKEN"] = self.xsrf_token

    return self.session.delete(
      url=self.base_gui_proxy_url + path,
      headers=headers)
```

9.2.3 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.

46a ⟨*LadokSession data methods* 44c⟩+≡ ◁44c 48a▷

```
@property
def xsrf_token(self):
  ⟨ensure the XSRF token is fresh 46d⟩

  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.

46b ⟨*LadokSession constructor body* 44a⟩+≡ ◁44b

```
self.__access_time = None
self.__timeout = datetime.timedelta(minutes=15)
```

46c ⟨*record time of request* 46c⟩≡ (44c 46d)

```
self.__access_time = datetime.datetime.now()
```

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.

46d ⟨*ensure the XSRF token is fresh* 46d⟩≡ (46a)

```
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 46c⟩
```

9.3 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.

46e ⟨*functions* 46e⟩≡ 47a▷

```
def clean_data(json_obj):
  remove_links(json_obj)
  pseudonymize(json_obj)
  return json_obj
```

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

47a ⟨*functions* 46e⟩+≡ ◁46e 47b▷

```
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.

47b ⟨*functions* 46e⟩+≡ ◁47a

```
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 10

Grade-related API calls

10.1 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.

48a ⟨*LadokSession data methods* 44c⟩+≡ ◁46a 67▷

```
def grade_scales_JSON(self):
  response = self.get_query(
    "/kataloginformation/internal/grunddata/betygsskala",
    content_type="application/vnd.ladok-kataloginformation+json;charset=UTF-8")

  if response.status_code == requests.codes.ok:
    return response.json()["Betygsskala"]
  raise Exception(f"can't fetch grading scales: {response.text}")
```

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.)

48b ⟨*test functions* 48b⟩≡ (43) 68a▷

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

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": false,
    "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": false,
    "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": false,
    "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": false,
      "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": false,
    "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": false,
    "Giltighetsperiod": {
      "Slutdatum": "0001-01-01"
    },
    "ID": "101310",
    "Kod": "UVX",
    "LarosateID": -1
  },
  {
    "Benamning": {
      "sv": "AF",
      "en": "AF"
    },
    "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": false,
    "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": false,
```

```
    "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": false,
    "Giltighetsperiod": {
      "Slutdatum": "2018-06-19"
    },
    "ID": "131654",
    "Kod": "OKÄND",
    "LarosateID": 29
  },
  {
    "Benamning": {
      "sv": "PF",
      "en": "PF"
    },
    "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": false,
      "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": false,
      "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": false,
      "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": false,
      "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": false,
    "Giltighetsperiod": {},
    "ID": "131655",
    "Kod": "XX",
    "LarosateID": 29
  }
]
```

Chapter 11

Student-related API calls

Here we have collected API-calls related to students.

11.1 `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.)

67 ⟨*LadokSession data methods* 44c⟩+≡ ◁48a 68b▷

```
  ##########################################################################
  #
  # 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'):
    person_nr =  format_personnummer(person_nr_raw)

    if not person_nr: raise Exception('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.

68a ⟨*test functions* 48b⟩+≡ (43) ◁48b 68c▷

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

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

68b ⟨*LadokSession data methods* 44c⟩+≡ ◁67 69a▷

```
##############################################################################
#
# 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):
  response = self.get_query(
    f"/studentinformation/internal/student/{uid}",
    content_type="application/vnd.ladok-studentinformation+json;charset=UTF-8")

  if response.status_code == requests.codes.ok:
    return response.json()
  raise AttributeError(f"can't fetch student attributes by LADOK ID {uid}")
```

To test this function, we do the following.

68c ⟨*test functions* 48b⟩+≡ (43) ◁68a 69b▷

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

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": "2023-08-24",
```

```
  "Fornamn": "Student",
  "KonID": 2,
  "Personnummer": "191234561234",
  "SenastAndradAv": "system@ladokintern",
  "SenastSparad": "2022-07-09T21:00:49.121",
  "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
}
```

11.2 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.

69a ⟨*LadokSession data methods* 44c⟩+≡ ◁68b 70a▷

```
def get_student_contact_data_JSON(self, student_id):
  """Returns contact data for student with student_id, returns JSON"""
  response = self.get_query(
    f"/studentinformation/internal/student/{student_id}/kontaktuppgifter",
    "application/vnd.ladok-studentinformation+json")

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception("can't get contact data for "
                  f"student {student_id}: {response.text}")
```

We test this function.

69b ⟨*test functions* 48b⟩+≡ (43) ◁68c 70b▷

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

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",
```

```
19   "TelefonnummerSenastAndrad": "2018-06-19T17:42:23.441",
20   "Uid": "2ad333ce-a894-11e7-8f03-147ba8e44f36"
21 }
```

11.3 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.

70a ⟨*LadokSession data methods* 44c⟩+≡ ◁69a 70c▷

```
def get_student_suspensions_JSON(self, student_id):
  """
  Returns suspensions from studies for student with student_id,
  returns JSON
  """
  response = self.get_query(
    f"/studentinformation/internal/avstangning/student/{student_id}",
    "application/vnd.ladok-studentinformation+json")

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception("can't get suspensions for "
                  f"student {student_id}: {response.text}")
```

We test this function.

70b ⟨*test functions* 48b⟩+≡ (43) ◁69b 71▷

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

The output looks like this.

```
1 {
2   "Avstangning": []
3 }
```

11.4 registrations_JSON

This methods returns *all* registrations for a student, i.e., registrations on courses and programmes.

70c ⟨*LadokSession data methods* 44c⟩+≡ ◁70a 254a▷

```
def registrations_JSON(self, student_id):
  """Return all registrations for student with ID student_id."""
  response = self.get_query(
    "/studiedeltagande/internal/tillfallesdeltagande/kurstillfallesdeltagande"
      f"/student/{student_id}",
    "application/vnd.ladok-studiedeltagande+json")

  if response.status_code == requests.codes.ok:
    return response.json()["Tillfallesdeltaganden"]
  raise Exception("can't get registrations for "
                  f"student {student_id}: {response.text}")
```

We provide the following test.

71 ⟨*test functions* 48b⟩+≡ (43) ◁70b 254b▷

```
def test_registrations_JSON():
  results = ladok.registrations_JSON(student_uid)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

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",
            "Slutdatum": "2018-06-30",
            "Startdatum": "2018-01-01",
            "Uid": "89a69d94-73db-11e8-afa7-8e408e694e54"
          },
          {
            "Index": 9,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2018-12-31",
            "Startdatum": "2018-07-01",
            "Uid": "1f28dff3-bfdd-11e8-8180-6b9d2e0d4d07"
          },
          {
            "Index": 10,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2019-06-30",
            "Startdatum": "2019-01-01",
            "Uid": "1f28dff4-bfdd-11e8-8180-6b9d2e0d4d07"
          },
          {
            "Index": 11,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2019-12-31",
            "Startdatum": "2019-07-01",
            "Uid": "9fb60ee3-b515-11e9-9999-748409b84dd2"
          },
          {
            "Index": 12,
            "Omfattningsvarde": "0.0",
            "Slutdatum": "2020-06-30",
            "Startdatum": "2020-01-01",
            "Uid": "f82ad0dd-3158-11ea-a989-1ea254964e91"
          }
        ],
        "StudieordningID": "1",
        "Studieperiod": {
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      "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.ingar.i.grupp.overfors.till.nya",
              "Varde": "true"
            },
            {
              "Regelnamn": "commons.domain.regel.kan.utannonseras",
```

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

```
        },
        "Sjalvstandig": true
      },
      "Utbildningsversion": 3
    }
  }
]
```

11.5 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.

254a ⟨*LadokSession data methods* 44c⟩+≡ ◁70c 259a▷

```
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."""
  response = self.get_query(
    "/studiedeltagande/internal/tillfallesdeltagande"
      f"/utbildning/{course_education_id}/student/{student_id}",
    "application/vnd.ladok-studiedeltagande+json")

  if response.status_code == requests.codes.ok:
    return response.json()["Tillfallesdeltaganden"]
  raise Exception("can't get registrations for "
                  f"student {student_id} on course {course_education_id}: "
                  f"{response.text}")
```

We add the following test.

254b ⟨*test functions* 48b⟩+≡ (43) ◁71 259b▷

```
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)
```

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-b9f
    "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": {
            "Regelvarden": [
              {
                "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
                "Varde": "true"
              },
              {
                "Regelnamn": "commons.domain.regel.kan.utannonseras",
                "Varde": "true"
```

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

```
        "Sjalvstandig": true
      },
      "Utbildningsversion": 1
    }
  }
]
```

Chapter 12

Course-related API calls

12.1 search_course_rounds_JSON

We want to search for course rounds by one or more keys.

259a ⟨*LadokSession data methods* 44c⟩+≡ ◁254a 260a▷

```
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"

  response = self.get_query(url)

  if response.status_code == requests.codes.ok:
    return response.json()["Resultat"]
  raise Exception(f"search_course_rounds_JSON failed: {response.text}")
```

We add the following test.

259b ⟨*test functions* 48b⟩+≡ (43) ◁254b 260b▷

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

The output looks like this.

```
[
  {
    "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
    }
  }
]
```


12.2 course_rounds_JSON

This method fetches all course rounds that uses the given course instance.

260a ⟨*LadokSession data methods* 44c⟩+≡ ◁259a 262a▷

```
def course_rounds_JSON(self, course_instance_id):
  """Requires course instance ID"""
  response = self.get_query(
    f"/resultat/internal/kurstillfalle/kursinstans/{course_instance_id}")

  if response.status_code == requests.codes.ok:
    return response.json()["Utbildningstillfalle"]
  raise Exception(f"can't list course round for course {course_instance_id}: "
                  f"{response.text}")
```

We test this method as follows.

260b ⟨*test functions* 48b⟩+≡ (43) ◁259b 262b▷

```
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)
```

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
      }
    }
]
```

12.3 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.)

262a ⟨*LadokSession data methods* 44c⟩+≡ ◁260a 263a▷

```
def course_instance_JSON(self, instance_id):
  """Returns course instance data for a course with instance ID instance_id"""
  response = self.get_query(
    f"/resultat/internal/utbildningsinstans/kursinstans/{instance_id}")

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception(f"can't get course instance data for {instance_id}: "
                  f"{response.text}")
```

We add the following test.

262b ⟨*test functions* 48b⟩+≡ (43) ◁260b 263b▷

```
def test_course_instance_JSON():
  results = ladok.course_instance_JSON(dasak_instance_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

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
}
```

12.4 Course components

There are two ways to get the components for a course.

12.4.1 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.

263a ⟨*LadokSession data methods* 44c⟩+≡ ◁262a 433a▷

```
def course_round_components_JSON(self, round_id):
  response = self.put_query(
    "/resultat/internal/kurstillfalle/moment",
    {"Identitet": [round_id]}
  )

  if response.status_code == 200:
    return response.json()["MomentPerKurstillfallen"][0]["Moment"]
  raise Exception(response.json()["Meddelande"])
```

We add the following test.

263b ⟨*test functions* 48b⟩+≡ (43) ◁262b 433b▷

```
def test_course_round_components_JSON():
  components = ladok.course_round_components_JSON(dasak_round_id)
  assert json.dumps(components, indent=2, ensure_ascii=False)
```

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"
    },
    {
      "Aktivitetstillfallen": [
        {
          "Aktiviteter": [
            {
              "Kursinstans": {
                "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
          },
          "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
          "Utbildningsinstans": {
            "Avvecklad": false,
            "Benamning": [
              {
                "Sprakkod": "sv",
                "Text": "Tentamen"
              },
              {
                "Sprakkod": "en",
                "Text": "Examination"
              }
            ],
            "BetygsskalaID": 131657,
            "Enhet": "HP",
            "GallerUtbildningUtanAngivenOmfattning": false,
            "KravPaHanvisningTillBeslutshandling": false,
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      "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
}
```

12.4.2 course_instance_components_JSON

This method fetches the course components for a course instance, i.e., a version of the syllabus.

433a ⟨*LadokSession data methods* 44c⟩+≡ ◁263a 436▷

```
def course_instance_components_JSON(self, course_instance_id):
  response = self.put_query(
    "/resultat/internal/utbildningsinstans/moduler",
    {"Identitet": [course_instance_id]}
  )

  if response.status_code == requests.codes.ok:
    return response.json()["Utbildningsinstans"][0]
  raise Exception(response.json()["Meddelande"])
```

We add the following test code.

433b ⟨*test functions* 48b⟩+≡ (43) ◁263b 437▷

```
def test_course_instance_components_JSON():
  components = ladok.course_instance_components_JSON(dasak_instance_id)
  assert json.dumps(components, indent=2, ensure_ascii=False)
```

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": "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
    },
    {
      "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
    }
  ],
  "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 13

Results-related API calls

In this chapter we look at how to fetch results from LADOK and report new results to LADOK.

13.1 Reported results

There are two ways to get results for a course. One method gives more data than the other.

13.1.1 search_reported_results_JSON

This method searches for student results for a given component on a given course round.

436 ⟨*LadokSession data methods* 44c⟩+≡ ◁433a 439▷

```
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": []
  }

  response = self.put_query(
    "/resultat/internal/studieresultat/rapportera"
      f"/utbildningsinstans/{component_instance_id}/sok",
```

```
    put_data)

  if response.status_code == requests.codes.ok:
    return response.json()["Resultat"]
  raise Exception(f"failed searching for results for "
                  f"course {course_round_id}, "
                  f"component {component_instance_id}: {response.text}")
```

We write the following test.

437 ⟨*test functions* 48b⟩+≡ (43) ◁433b 440▷

```
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)
```

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 (ida
          "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 (ida
            "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 (idat
          "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"
  }
]
```

13.1.2 search_course_results_JSON

Another method, which gives slightly different results is the following.

439 ⟨*LadokSession data methods* 44c⟩+≡ ◁436 441a▷

```
def search_course_results_JSON(self, course_round_id, component_instance_id):
  put_data = {
    "KurstillfallenUID": [course_round_id],
    "Tillstand": ["REGISTRERAD", "AVKLARAD", "AVBROTT"],
    "OrderBy": ["EFTERNAMN_ASC", "FORNAMN_ASC"],
    "Limit": 400,
```

```
    "Page": 1,
  }

  response = self.put_query(
    "/resultat/internal/resultatuppfoljning/resultatuppfoljning/sok",
    put_data)

  if response.status_code == requests.codes.ok:
    return response.json()["Resultat"]
  raise Exception("can't get course results for "
                  f"course {course_round_id}, "
                  f"component {component_instance_id}: {response.text}")
```

We test this by the following.

440 ⟨*test functions* 48b⟩+≡ (43) ◁437 441b▷

```
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)
```

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"
  }
]
```

13.2 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.

441a ⟨*LadokSession data methods* 44c⟩+≡ ◁439 449▷

```
def student_results_JSON(self, student_id, course_education_id):
  """Returns the results for a student on a course"""
  response = self.get_query(
    "/resultat/internal/studentenskurser/kursinformation"
    f"/student/{student_id}/kursUID/{course_education_id}"
  )

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception(response.json()["Meddelande"])
```

We test this in the following way.

441b ⟨*test functions* 48b⟩+≡ (43) ◁440 450▷

```
def test_student_results_JSON():
  results = ladok.student_results_JSON(student_uid, dasak_education_id)
  assert json.dumps(results, indent=2, ensure_ascii=False)
```

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": "AF",
            "en": "AF"
          },
          "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 (id
              "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": "PF",
                "en": "PF"
              },
              "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
            "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"
          }
        },
        {
          "Betygsskala": {
            "Benamning": {
              "sv": "AF",
              "en": "AF"
            },
            "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
              "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"
          }
        }
      ]
    }
  ],
  "NoteringsdefinitionerKoppladeTillResultat": [],
  "ResultatUtanKopplingTillKursversion": [],
  "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
}
```

13.3 Modifying results

We have two alternatives: add a new result or update an existing result draft.

13.3.1 `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.

449 ⟨*LadokSession data methods* 44c⟩+≡ ◁441a 451a▷

```
def create_result_JSON(self,
      student_id, course_instance_id, component_id,
      grade_id, date,
      project_title=None):
  """Creates a new result"""
  response = 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
    }
  )
```

```
    if response.status_code == requests.codes.ok:
      return response.json()
    raise Exception(f"LADOK create request failed: "
                    f"{response.json()['Meddelande']}")
```

We test this in the following way.

450 ⟨*test functions* 48b⟩+≡ (43) ◁441b 451b▷

```
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)
```

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": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "SenasteResultatandring": "2023-02-16T23:08:18.568",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

LADOK changed this API request in 2022.

13.3.2 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`.

451a ⟨*LadokSession data methods* 44c⟩+≡ ◁449 452a▷

```
def update_result_JSON(self,
      result_id, grade_id, date, last_modified, notes=[]):
  response = self.put_query(
    f"/resultat/internal/resultat/uppdatera/{result_id}",
    {
      'Betygsgrad': grade_id,
      'Examinationsdatum': date,
      'Noteringar': notes,
      'SenasteResultatandring': last_modified
    }
  )

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception(f"LADOK request to modify result failed: "
                  f"{response.json()['Meddelande']}")
```

We test this in the following way.

451b ⟨*test functions* 48b⟩+≡ (43) ◁450 452b▷

```
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)
```

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": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "SenasteResultatandring": "2023-02-16T23:08:18.631",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

13.4 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.

13.4.1 `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.

452a ⟨*LadokSession data methods* 44c⟩+≡ ◁451a 453a▷

```
def result_attestants_JSON(self, result_id):
  """Returns a list of result attestants"""
  response = self.put_query(
    "/resultat/internal/anvandare/resultatrattighet/attestanter/kurstillfallesrapporteri
    {"Identitet": [result_id]}
  )

  if response.status_code == 200:
    return response.json()["Anvandare"]
  raise Exception(response.json()["Meddelande"])
```

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.

452b ⟨*test functions* 48b⟩+≡ (43) ◁451b 453b▷

```
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)
```

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).

453a ⟨*LadokSession data methods* 44c⟩+≡ ◁452a 454a▷

```
def result_reporters_JSON(self, organization_id):
  """Returns a list of who can report results in an organization"""
  response = self.get_query(
    "/kataloginformation/internal/anvandare/organisation/" +
      organization_id + "/resultatrapportorer",
    "application/vnd.ladok-kataloginformation+json"
  )

  if response.status_code == 200:
    return response.json()["Anvandare"]
  raise Exception(response.text)
```

We test this method as follows.

453b ⟨*test functions* 48b⟩+≡ (43) ◁452b 454b▷

```
def test_result_reporters_JSON():
  reporters = ladok.result_reporters_JSON(KTH_org_id)
  assert json.dumps(reporters, indent=2, ensure_ascii=False)
```

The output looks like this.

```
[
  {
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "7c3b78ca-5790-11e9-aa01-33005ebe4882"
  },
  {
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "c2c14b87-3a90-11e9-98c7-6e9130f64812"
  },
```

```
  {
    "Anvandarnamn": "user@domain.se",
    "Efternamn": "Studentzadeh",
    "Fornamn": "Student",
    "LarosateID": 29,
    "Uid": "ab6ef714-15fb-11e7-a1a0-8cb7e2bc425d"
  }
]
```

13.4.2 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.

454a ⟨*LadokSession data methods* 44c⟩+≡ ◁453a 454c▷

```
def user_info_JSON(self):
  response = self.get_query(
    "/kataloginformation/internal/anvandare/anvandarinformation",
    "application/vnd.ladok-kataloginformation+json"
  )

  if response.status_code == 200:
    return response.json()
  raise Exception(response.text)
```

We test this as follows.

454b ⟨*test functions* 48b⟩+≡ (43) ◁453b 455▷

```
def test_user_info_JSON():
  me_teacher = ladok.user_info_JSON()
  assert json.dumps(me_teacher, indent=2, ensure_ascii=False)
```

The output looks like this.

```
{
  "AnvandareUID": "21f4667a-e864-11ea-adbf-a14961264cf0",
  "Epost": "dbosk@kth.se",
  "Leveranspreferenser": [],
  "Uid": "25c8c6d7-e864-11ea-adbf-a14961264cf0"
}
```

13.4.3 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.)

454c ⟨*LadokSession data methods* 44c⟩+≡ ◁454a 456a▷

```
def finalize_result_JSON(self,
    result_id, last_modified, reporter_id, attestant_ids=[]):
  """Marks a result as finalized (klarmarkera)"""
  response = self.put_query(
    f"/resultat/internal/resultat/klarmarkera/{result_id}",
    {
```

```
        "Beslutsfattare": attestant_ids,
        "KlarmarkeradAvUID": reporter_id,
        "RattadAv": [],
        "ResultatetsSenastSparad": last_modified
      }
    )

    if response.status_code == requests.codes.ok:
      return response.json()
    raise Exception(response.json()["Meddelande"])
```

This method returns a copy of the finalized result.

We test this in the following way.

455 ⟨*test functions* 48b⟩+≡ (43) ◁454b 456b▷

```
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)
```

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": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "SenasteResultatandring": "2023-02-16T23:08:20.427",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

13.4.4 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 13.3.2) is that the URL uses `uppdateraklarmarkerat` instead of just `uppdatera`.

456a ⟨*LadokSession data methods* 44c⟩+≡ ◁454c 457a▷

```
def update_finalized_result_JSON(self,
      result_id, grade_id, date, last_modified, notes=[]):
  response = self.put_query(
    f"/resultat/internal/resultat/uppdateraklarmarkerat/{result_id}",
    {
      'Betygsgrad': grade_id,
      'Examinationsdatum': date,
      'Noteringar': notes,
      'SenasteResultatandring': last_modified
    }
  )

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception(f"LADOK request to modify finalized result failed: "
                  f"{response.json()['Meddelande']}")
```

We test this in the following way.

456b ⟨*test functions* 48b⟩+≡ (43) ◁455 457b▷

```
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)
```

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": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "SenasteResultatandring": "2023-02-16T23:08:20.478",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

13.4.5 finalized_result_to_draft_JSON

We can also change a result from finalized back to draft status.

457a ⟨*LadokSession data methods* 44c⟩+≡ ◁456a 458a▷

```
def finalized_result_to_draft_JSON(self, result_id, last_modified):
  response = self.put_query(
    f"/resultat/internal/resultat/tillbakatillutkast/{result_id}",
    {
      'ResultatUID': result_id,
      'ResultatetsSenastSparad': last_modified
    }
  )

  if response.status_code == requests.codes.ok:
    return response.json()
  raise Exception(f"LADOK request to change finalized result to draft failed: "
                  f"{response.json()['Meddelande']}")
```

We test this in the following way.

457b ⟨*test functions* 48b⟩+≡ (43) ◁456b 458b▷

```
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)
```

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": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "SenasteResultatandring": "2023-02-16T23:08:20.681",
  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
  "Uid": "6b12a138-ae46-11ed-8d16-a0e674734158",
  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
}
```

13.4.6 remove_result_draft_JSON

We can also change a result from finalized back to draft status.

458a ⟨*LadokSession data methods* 44c⟩+≡ ◁457a 458c▷

```
def remove_result_draft_JSON(self, result_id):
  response = self.del_query(
    f"/resultat/internal/resultat/tabort/{result_id}"
  )

  if response.status_code != 204:
    raise Exception(f"LADOK request to remove draft result failed: "
                    f"{response.status_code}: {response.text}")
```

We test this in the following way.

458b ⟨*test functions* 48b⟩+≡ (43) ◁457b 459▷

```
def test_remove_result_draft_JSON():
  global result_uid

  ladok.remove_result_draft_JSON(result_uid)
```

There is no output.

13.5 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.)

458c ⟨*LadokSession data methods* 44c⟩+≡ ◁458a

```
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")
    if response.status_code == requests.codes.ok:
      return response.json()["Resultat"]
    raise Exception(f"can't get participants "
                    f"with course_round_id = {course_round_id}: "
                    f"{response.text}")
```

We test this as follows.

459 ⟨*test functions* 48b⟩+≡ (43) ◁458b

```
  def test_participants_JSON():
    results = ladok.participants_JSON(dasak_round_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

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-b9f
    "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 14

Baltatzis' and Maguire's original `LadokSession` methods

Below are the original `LadokSession` methods by Baltatzis and Maguire. 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.

14.1 `get_results`, `save_result`

461 ⟨*LadokSession data methods* 461⟩≡ 465▷

```
######################################################################
#
# 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 Exception('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'] ==

  # 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 Exception('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 Exception('Invalid grade: ' + grade_raw +
      ' does not match grade_scale ' + grade_scale)

  person_nr =  format_personnummer(person_nr_raw)
  if not person_nr: raise Exception('Invalid person nr ' + person_nr_raw)
```

```
result_date = self.__validate_date(result_date_raw)
if not result_date:
  raise Exception('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 Exception("Couldn't register " +
        course_moment + "=" + grade_raw + " " + result_date_raw + ": " +
          r.json()["Meddelande"])

    return True
```

14.2 get_student_data, get_student_name

465 ⟨*LadokSession data methods* 461⟩+≡ ◁461 466a▷

```
  ##########################################################################
  #
  # 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', 'al

  def get_student_data(self, person_nr_raw):
    person_nr =  format_personnummer(person_nr_raw)

    if not person_nr: raise Exception('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 Exception('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"]
    }
```

14.3 all_grading_scale

466a ⟨*LadokSession data methods* 461⟩+≡ ◁465 466b▷

```
  # added by GQMJr
  ##########################################################################
  #
  # all_grading_scale
  #
  #
  # RETURNERAR en dictionary of the grading scales
  def all_grading_scale(self):
    return self.get_grade_scales()
```

14.4 grading_rights

466b ⟨*LadokSession data methods* 461⟩+≡ ◁466a 467a▷

```
  # added by GQMJr
  ##########################################################################
  #
  # grading_rights
  #
  #
  # RETURNERAR en dictionary of the grading rights (of the logged in user)
```

```
  def grading_rights(self):
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/resultat/resultatrattighet/listaforinloggadanvandare',
      headers=self.headers).json()
    return r['Resultatrattighet']
```

14.5 change_locale

467a ⟨*LadokSession data methods* 461⟩+≡ ◁466b 467b▷

```
  # 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
```

14.6 course_instances_JSON

467b ⟨*LadokSession data methods* 461⟩+≡ ◁467a 468a▷

```
  # added by GQMJr
  ##############################################################################
  #
  # course_instances_JSON
  #
  # course_code        - course code, such as "II2202"
  #
  # lang               - language code 'en' or 'sv', defaults to 'sv'
  #
  # RETURNERAR JSON of resultat/kurstillfalle
  #
  # Example: ladok_session.course_instances('II2202', 'en')
  def course_instances_JSON(self, course_code, lang = '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/kurstillfalle/filtrera?kurskod=' +
        course_code + '&page=1&limit=100&skipCount=false&sprakkod=' + lang,
      headers=self.headers).json()
    return r
```

14.7 organization_info_JSON

468a ⟨*LadokSession data methods* 461⟩+≡ ◁467b 468b▷

```
# added by GQMJr
########################################################################
#
# organization_info_JSON
#
# RETURNERAR en dictionary of organization information for the entire institution of the
def organization_info_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/resultat/organisation/utanlankar',
    headers=self.headers).json()
  return r
```

14.8 period_info_JSON

468b ⟨*LadokSession data methods* 461⟩+≡ ◁468a 468c▷

```
# 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/grunddata/period',
    headers=self.headers).json()
  return r
```

14.9 instance_info

468c ⟨*LadokSession data methods* 461⟩+≡ ◁468b 469a▷

```
# added by GQMJr
########################################################################
#
# instance_info
#
# course_code        - course code, such as "II2202"
#
# instance_code      - instance of the course ('TillfallesKod')
#
# lang               - language code 'en' or 'sv', defaults to 'sv'
#
# RETURNERAR en dictionary of course instance information
#
# Example: ii=ladok_session.instance_info('II2202', instance_code, 'en')
```

```
def instance_info(self, course_code, instance_code, lang = 'sv'):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/resultat/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
  return None
```

14.10 instance_info_uid

469a ⟨*LadokSession data methods* 461⟩+≡ ◁468c 469b▷

```
# added by GQMJr
########################################################################
#
# instance_info_uid
#
# instance_uid       - course's Uid (from course_integration_id)
#
# RETURNERAR en dictionary of course instance information
#
# Example: ii=ladok_session.instance_info_uid(instance_uid)
def instance_info_uid(self, instance_uid):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/resultat/kurstillfalle/'+instance_uid,
    headers=self.headers).json()
  return r
```

14.11 studystructure_student_JSON

469b ⟨*LadokSession data methods* 461⟩+≡ ◁469a 470a▷

```
# added by GQMJr
########################################################################
#
# studystructure_student_JSON
#
# uid                -  uid of a student
#
# RETURNERAR en dictionary of student information
def studystructure_student_JSON(self, uid):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/studiedeltagande/studiestruktur/student/'+uid,
```

```
      headers=self.headers)
    if r.status_code == 200:
      return r.json()
    return None
```

14.12 larosatesinformation_JSON

470a ⟨*LadokSession data methods* 461⟩+≡ ◁469b 470b▷

```
  # added by GQMJr
  ##########################################################################
  #
  # larosatesinformation_JSON
  #
  # RETURNERAR JSON of the university or college information
  def larosatesinformation_JSON(self):
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/grunddata/larosatesinformation',
      headers=self.headers).json()
    return r

  # {   'Larosatesinformation': [   {   'Benamning': {   'en': 'Royal Institute of '
  #                                                          'Technology',
  #                                                    'sv': 'Kungliga Tekniska '
  #                                                          'högskolan'},
  #                                     'Beskrivning': {},
  #                                     'Giltighetsperiod': {'link': []},
  #                                     'ID': '29',
  #                                     'Kod': 'KTH',
  #                                     'LarosateID': 29,
  #                                     'OrtID': 18,
  #                                     'link': []}],
  #     'link': []}
```

14.13 undervisningssprak_JSON

470b ⟨*LadokSession data methods* 461⟩+≡ ◁470a 473▷

```
  # added by GQMJr
  ##########################################################################
  #
  # undervisningssprak
  #
  # RETURNERAR en dictionary of languages used for instruction
  def undervisningssprak_JSON(self):
    r = self.session.get(
      url=self.base_gui_proxy_url +
        '/kataloginformation/grunddata/undervisningssprak',
```

```
    headers=self.headers).json()
  return r
# {   'Undervisningssprak': [   {   'Benamning': {   'en': 'English',
#                                                     'sv': 'Engelska'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '2',
#                                'Kod': 'ENG',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {'en': 'Russian', 'sv': 'Ryska'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '4',
#                                'Kod': 'RUS',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {   'en': 'Sign Language',
#                                                 'sv': 'Teckenspråk'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '5',
#                                'Kod': 'SGN',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {   'en': 'Spanish',
#                                                 'sv': 'Spanska'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '3',
#                                'Kod': 'SPA',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {   'en': 'Swedish',
#                                                 'sv': 'Svenska'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '1',
#                                'Kod': 'SWE',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {'en': 'Danish', 'sv': 'Danska'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'ID': '109804',
#                                'Kod': 'DAN',
#                                'LarosateID': -1,
#                                'link': []},
#                            {   'Benamning': {   'en': 'Finnish',
#                                                 'sv': 'Finska'},
```

```
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109805',
#                               'Kod': 'FIN',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Italian',
#                                                'sv': 'Italienska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109806',
#                               'Kod': 'ITA',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Japanese',
#                                                'sv': 'Japanska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109807',
#                               'Kod': 'JPN',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Norwegian',
#                                                'sv': 'Norska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109808',
#                               'Kod': 'NOR',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Portugese',
#                                                'sv': 'Portugisiska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109809',
#                               'Kod': 'POR',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {   'en': 'French',
#                                                'sv': 'Franska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109810',
#                               'Kod': 'FRE',
#                               'LarosateID': -1,
#                               'link': []},
#                           {   'Benamning': {'en': 'German', 'sv': 'Tyska'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '109811',
```

```
#                                 'Kod': 'GER',
#                                 'LarosateID': -1,
#                                 'link': []},
#                             {   'Benamning': {   'en': 'Chinese',
#                                                  'sv': 'Kinesiska'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '111033',
#                                 'Kod': 'CHI',
#                                 'LarosateID': -1,
#                                 'link': []},
#                             {   'Benamning': {   'en': 'Arabic',
#                                                  'sv': 'Arabiska'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '111032',
#                                 'Kod': 'ARA',
#                                 'LarosateID': -1,
#                                 'link': []}],
# 'link': []}
```

14.14 i18n_translation_JSON

473 ⟨*LadokSession data methods* 461⟩+≡ ◁470b 474a▷

```
# added by GQMJr
#############################################################################
#
# i18n_translation_JSON
#
# lang               - language code 'en' or 'sv', defaults to 'sv'
# RETURNERAR JSON of i18n translations used in Ladok3
def i18n_translation_JSON(self, lang = 'sv'):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/i18n/oversattningar/sprakkod/' + lang,
    headers=self.headers).json()
  return r

# the above i18n translations are used for example in:
# 'Utbildningstillfallestyp': {   'Benamningar': {   'en': 'Course instance', 'sv': 'Kurs
#                                                    'Giltighetsperiod': {   'link': [
#                                                    'Grundtyp': 'KURS',
#                                                    'ID': 52,
#                                                    'Kod': '2007KTF',
#                                                    'RegelverkForUtbildningstyp': {   '
#
#
#
#
```

```
  # All of the things of the form "commons-domain.*" are i18n keys to look the actual text
  # for example:
  # in Swedish:
  #{   'I18nNyckel': 'commons.domain.regel.ingar.i.grupp.overfors.till.nya',
  #    'Text': 'Ingår i grupp: Överförs till NyA',
  #    'link': []},
  # In English:
  # {   'I18nNyckel': 'commons.domain.regel.ingar.i.grupp.overfors.till.nya',
  #     'Text': 'Part of group: Transferred to NyA',
  #     'link': []},
```

14.15 svenskorter_JSON

474a ⟨*LadokSession data methods* 461⟩+≡ ◁473 474b▷

```
  # added by GQMJr
  ##############################################################################
  #
  # svenskorter_JSON
  #
  # RETURNERAR JSON of places in Sweden with their KommunID
  def svenskorter_JSON(self):
    r = self.session.get(
      url=self.base_gui_proxy_url + '/kataloginformation/grunddata/svenskort',
      headers=self.headers).json()
    return r

  # returns:
  # {   'SvenskOrt': [   {   'Benamning': {   'en': 'Stockholm (Botkyrka)',
  #                                           'sv': 'Stockholm (Botkyrka)'},
  #                          'Beskrivning': {},
  #                          'Giltighetsperiod': {'link': []},
  #                          'ID': '110990',
  #                          'Kod': 'L0127',
  #                          'KommunID': '8',
  #                          'LarosateID': -1,
  #                          'link': []},
  # ... ], 'link': []}
```

14.16 kommuner_JSON

474b ⟨*LadokSession data methods* 461⟩+≡ ◁474a 475▷

```
  # added by GQMJr
  ##############################################################################
  #
  # kommuner_JSON
  #
  # RETURNERAR JSON of places in Sweden with their KommunID
```

```
def kommuner_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/kommun',
    headers=self.headers).json()
  return r

# returns:
# {   'Kommun': [   {   'Benamning': {'en': 'Knivsta', 'sv': 'Knivsta'},
#                   'Beskrivning': {},
#                   'Giltighetsperiod': {'link': []},
#                   'ID': '29',
#                   'Kod': '0330',
#                   'LanID': 2,
#                   'LarosateID': -1,
#                   'link': []},
#               {   'Benamning': {'en': 'Heby', 'sv': 'Heby'},
#                   'Beskrivning': {   'sv': 'Överförd från Västmanlands '
#                                            'till Uppsala län'},
#                   'Giltighetsperiod': {   'Startdatum': '2007-01-01',
#                                           'link': []},
#                   'ID': '30',
#                   'Kod': '0331',
#                   'LanID': 2,
#                   'LarosateID': -1,
#                   'link': []},
# ], 'link': []}
```

14.17 lander_JSON

475 ⟨*LadokSession data methods* 461⟩+≡ ◁474b 476▷

```
# added by GQMJr
################################################################################
#
# lander_JSON
#
# RETURNERAR JSON of countries
def lander_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/land',
    headers=self.headers).json()
  return r

# returns:
# {   'Land': [   {   'Benamning': {'en': 'Bolivia', 'sv': 'Bolivia'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '20',
#                     'Kod': 'BO',
#                     'LarosateID': -1,
```

```
#                     'link': []},
#                {    'Benamning': {'en': 'Brazil', 'sv': 'Brasilien'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '21',
#                     'Kod': 'BR',
#                     'LarosateID': -1,
#                     'link': []},
# ... ],    'link': []}
```

14.18 undervisningstid_JSON

476 ⟨*LadokSession data methods* 461⟩+≡ ◁475 477▷

```
# added by GQMJr
##############################################################################
#
# undervisningstid_JSON
#
# RETURNERAR JSON of teaching times
def undervisningstid_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/undervisningstid',
    headers=self.headers).json()
  return r

#returns:
# {   'Undervisningstid': [   {   'Benamning': {   'en': 'Mixed-time',
#                                                  'sv': 'Blandad '
#                                                        'undervisningstid'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '101051',
#                                 'Kod': 'BLA',
#                                 'LarosateID': -1,
#                                 'link': []},
#                             {   'Benamning': {'en': 'Day-time', 'sv': 'Dagtid'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '101052',
#                                 'Kod': 'DAG',
#                                 'LarosateID': -1,
#                                 'link': []},
#                             {   'Benamning': {   'en': 'Afternoon-time',
#                                                  'sv': 'Eftermiddagstid'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '101053',
#                                 'Kod': 'EFT',
```

```
#                                   'LarosateID': -1,
#                                   'link': []},
#                               {   'Benamning': {   'en': 'No teaching',
#                                                    'sv': 'Ingen '
#                                                    'undervisningstid'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Slutdatum': '2016-04-30',
#                                                           'link': []},
#                                   'ID': '101054',
#                                   'Kod': 'ING',
#                                   'LarosateID': -1,
#                                   'link': []},
#                               {   'Benamning': {   'en': 'Evening-time',
#                                                    'sv': 'Kvällstid'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {'link': []},
#                                   'ID': '101055',
#                                   'Kod': 'KVÄ',
#                                   'LarosateID': -1,
#                                   'link': []},
#                               {   'Benamning': {   'en': 'Weekends',
#                                                    'sv': 'Veckoslut'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {'link': []},
#                                   'ID': '101056',
#                                   'Kod': 'VSL',
#                                   'LarosateID': -1,
#                                   'link': []}],
#     'link': []}
```

14.19 successivfordjupning_JSON

477 ⟨*LadokSession data methods* 461⟩+≡ ◁476 478▷

```
# added by GQMJr
#############################################################################
#
# successivfordjupning_JSON
#
# RETURNERAR JSON of Successive Specializations
def successivfordjupning_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/successivfordjupning',
    headers=self.headers).json()
  return r

#returns:
# {   'SuccessivFordjupning': [   {   'Benamning': {   'en': 'Second cycle, '
#                                                       'contains degree '
```

```
#                                                          'project for Master '
#                                                          'of Arts/Master of '
#                                                          'Science (60 '
#                                                          'credits)',
#                                                 'sv': 'Avancerad nivå, '
#                                                       'innehåller '
#                                                       'examensarbete för '
#                                                       'magisterexamen'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {'link': []},
#                                     'ID': '1',
#                                     'Kod': 'A1E',
#                                     'LarosateID': -1,
#                                     'NivaInomStudieordningID': 2,
#                                     'link': []},
#                                {    'Benamning': {   'en': 'Second cycle, has '
#                                                       'second-cycle '
#                                                       'course/s as entry '
#                                                       'requirements',
#                                                 'sv': 'Avancerad nivå, '
#                                                       'har kurs/er på '
#                                                       'avancerad nivå som '
#                                                       'förkunskapskrav'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {'link': []},
#                                     'ID': '2',
#                                     'Kod': 'A1F',
#                                     'LarosateID': -1,
#                                     'NivaInomStudieordningID': 2,
#                                     'link': []},
# ... ], 'link': []}
```

14.20 undervisningsform_JSON

478 ⟨*LadokSession data methods* 461⟩+≡ ◁477 480▷

```
# added by GQMJr
##############################################################################
#
# undervisningsform_JSON
#
# RETURNERAR JSON of forms of education
def undervisningsform_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/undervisningsform',
    headers=self.headers).json()
  return r

#returns:
```

```
# {   'Undervisningsform': [   {   'Benamning': {   'en': '- No translation '
#                                                       'available -',
#                                                   'sv': 'IT-baserad distans'},
#                                  'Beskrivning': {},
#                                  'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                                          'link': []},
#                                  'ID': '133253',
#                                  'Kod': 'ITD',
#                                  'LarosateID': 29,
#                                  'link': []},
#                              {   'Benamning': {   'en': '- No translation '
#                                                       'available -',
#                                                   'sv': 'Undervisningsområdet'},
#                                  'Beskrivning': {},
#                                  'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                                          'link': []},
#                                  'ID': '133252',
#                                  'Kod': 'LU',
#                                  'LarosateID': 29,
#                                  'link': []},
#                              {   'Benamning': {   'en': 'Distance learning',
#                                                   'sv': 'Distans'},
#                                  'Beskrivning': {   'sv': 'Obligatoriska '
#                                                           'träffar kan '
#                                                           'förekomma'},
#                                  'Giltighetsperiod': {'link': []},
#                                  'ID': '2',
#                                  'Kod': 'DST',
#                                  'LarosateID': -1,
#                                  'link': []},
#                              {   'Benamning': {   'en': 'No teaching',
#                                                   'sv': 'Ingen undervisning'},
#                                  'Beskrivning': {},
#                                  'Giltighetsperiod': {   'Slutdatum': '2016-04-30',
#                                                          'link': []},
#                                  'ID': '4',
#                                  'Kod': 'ING',
#                                  'LarosateID': -1,
#                                  'link': []},
#                              {   'Benamning': {   'en': 'Web-based distance '
#                                                         'learning',
#                                                   'sv': 'IT-baserad '
#                                                         'distansutbildning'},
#                                  'Beskrivning': {   'sv': 'Ingen platsbunden '
#                                                           'undervisning'},
#                                  'Giltighetsperiod': {   'Slutdatum': '2016-04-30',
#                                                          'link': []},
#                                  'ID': '3',
#                                  'Kod': 'ITD',
#                                  'LarosateID': -1,
```

```
#                                   'link': []},
#                               {   'Benamning': {   'en': 'Normal teaching',
#                                                    'sv': 'Normal'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {'link': []},
#                                   'ID': '1',
#                                   'Kod': 'NML',
#                                   'LarosateID': -1,
#                                   'link': []}],
#     'link': []}
```

14.21 LokalaPerioder_JSON

480 ⟨*LadokSession data methods* 461⟩+≡ ◁478 481▷

```
# added by GQMJr
##############################################################################
#
# LokalaPerioder_JSON
#
# RETURNERAR JSON of local periods
def LokalaPerioder_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/period',
    headers=self.headers).json()
  return r

# returns:
# {   'Period': [
#...
#                {   'Benamning': {   'en': 'Calendar year 2020',
#                                     'sv': 'Kalenderår 2020'},
#                    'Beskrivning': {},
#                    'FromDatum': '2020-01-01',
#                    'Giltighetsperiod': {   'Slutdatum': '2020-12-31',
#                                            'Startdatum': '2020-01-01',
#                                            'link': []},
#                    'ID': '29151',
#                    'Kod': '2020',
#                    'LarosateID': 29,
#                    'PeriodtypID': 1,
#                    'TomDatum': '2020-12-31',
#                    'link': []},
#               {   'Benamning': {   'en': 'Last six months of 2020',
#                                    'sv': 'Andra halvår 2020'},
#                    'Beskrivning': {},
#                    'FromDatum': '2020-07-01',
#                    'Giltighetsperiod': {   'Slutdatum': '2020-12-31',
#                                            'Startdatum': '2020-07-01',
#                                            'link': []},
```

```
#                   'ID': '29252',
#                   'Kod': '2020H',
#                   'LarosateID': 29,
#                   'PeriodtypID': 3,
#                   'TomDatum': '2020-12-31',
#                   'link': []},
#               {   'Benamning': {   'en': 'First six months of 2020',
#                                    'sv': 'Första halvår 2020'},
#                   'Beskrivning': {},
#                   'FromDatum': '2020-01-01',
#                   'Giltighetsperiod': {   'Slutdatum': '2020-06-30',
#                                           'Startdatum': '2020-01-01',
#                                           'link': []},
#                   'ID': '29324',
#                   'Kod': '2020V',
#                   'LarosateID': 29,
#                   'PeriodtypID': 3,
#                   'TomDatum': '2020-06-30',
#                   'link': []},
#...
# 'link': []}
```

14.22 nivainomstudieordning_JSON

481 ⟨*LadokSession data methods* 461⟩+≡ ◁480 482▷

```
# added by GQMJr
#############################################################################
#
# nivainomstudieordning_JSON
#
# RETURNERAR JSON of education levels
def nivainomstudieordning_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/nivainomstudieordning',
    headers=self.headers).json()
  return r

# returns:
# {   'NivaInomStudieordning': [   {   'Benamning': {   'en': 'First cycle',
#                                                       'sv': 'Grundnivå'},
#                                      'Beskrivning': {},
#                                      'Giltighetsperiod': {   'Startdatum': '2007-07-01
#                                      'ID': '1',
#                                      'Kod': '1',
#                                      'LarosateID': -1,
#                                      'link': []},
#                                  {   'Benamning': {   'en': 'Second cycle',
#                                                       'sv': 'Avancerad nivå'},
```

```
#                                       'Beskrivning': {},
#                                       'Giltighetsperiod': {   'Startdatum': '2007-07-01
#                                       'ID': '2',
#                                       'Kod': '2',
#                                       'LarosateID': -1,
#                                       'link': []},
#                                   {   'Benamning': {   'en': 'Third cycle',
#                                                        'sv': 'Forskarnivå'},
#                                       'Beskrivning': {},
#                                       'Giltighetsperiod': {   'Startdatum': '2007-07-01
#                                       'ID': '3',
#                                       'Kod': '3',
#                                       'LarosateID': -1,
#                                       'link': []},
#                                   {   'Benamning': {   'en': 'Postgraduate '
#                                                              'level',
#                                                        'sv': 'Forskarutbildning'},
#                                       'Beskrivning': {},
#                                       'Giltighetsperiod': {   'Slutdatum': '2007-06-30'
#                                                               'Startdatum': '1977-07-01
#                                       'ID': '5',
#                                       'Kod': 'F',
#                                       'LarosateID': -1,
#                                       'link': []},
#                                   {   'Benamning': {   'en': 'Undergraduate '
#                                                              'level',
#                                                        'sv': 'Grundutbildning'},
#                                       'Beskrivning': {},
#                                       'Giltighetsperiod': {   'Slutdatum': '2007-06-30'
#                                                               'Startdatum': '1977-07-01
#                                       'ID': '4',
#                                       'Kod': 'G',
#                                       'LarosateID': -1,
#                                       'link': []}],
#     'link': []}
```

14.23 amnesgrupp_JSON

482 ⟨*LadokSession data methods* 461⟩+≡ ◁481 483▷

```
# added by GQMJr
#############################################################################
#
# amnesgrupp_JSON
#
# RETURNERAR JSON of subject area groups
def amnesgrupp_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/amnesgrupp',
    headers=self.headers).json()
```

```
    return r

  # returns:
  # {   'Amnesgrupp': [   {   'Benamning': {   'en': 'Archival Science',
  #                                            'sv': 'Arkivvetenskap'},
  #                           'Beskrivning': {},
  #                           'Giltighetsperiod': {'link': []},
  #                           'ID': '10',
  #                           'Kod': 'AV1',
  #                           'LarosateID': -1,
  #                           'link': []},
  # ...
  #                       {   'Benamning': {'en': 'Philosophy', 'sv': 'Filosofi'},
  #                           'Beskrivning': {},
  #                           'Giltighetsperiod': {'link': []},
  #                           'ID': '42',
  #                           'Kod': 'FI2',
  #                           'LarosateID': -1,
  #                           'link': []},
  # ...
  #                       {   'Benamning': {   'en': 'Informatics/Computer and '
  #                                                  'Systems Sciences',
  #                                            'sv': 'Informatik/data- och '
  #                                                  'systemvetenskap'},
  #                           'Beskrivning': {},
  #                           'Giltighetsperiod': {'link': []},
  #                           'ID': '68',
  #                           'Kod': 'IF1',
  #                           'LarosateID': -1,
  #                           'link': []},
  # ...
  #                       {   'Benamning': {   'en': 'Electronics',
  #                                            'sv': 'Elektronik'},
  #                           'Beskrivning': {},
  #                           'Giltighetsperiod': {'link': []},
  #                           'ID': '30',
  #                           'Kod': 'EL1',
  #                           'LarosateID': -1,
  #                           'link': []},
  # ... ],
  #     'link': []}
```

14.24 studietakt_JSON

483 ⟨*LadokSession data methods* 461⟩+≡ ◁482 504a▷

```
  # added by GQMJr
  ##############################################################################
  #
  # studietakt_JSON
```

```
#
# RETURNERAR JSON of study tempos
def studietakt_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/studietakt',
    headers=self.headers).json()
  return r

# returns:
# {   'Studietakt': [   {   'Benamning': {   'en': '- No translation available -',
#                                            'sv': 'Noll'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133268',
#                       'Kod': '0',
#                       'LarosateID': 29,
#                       'Takt': 0,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                            'sv': 'Kvartstid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133270',
#                       'Kod': '1',
#                       'LarosateID': 29,
#                       'Takt': 1,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                            'sv': 'Kvartstid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133282',
#                       'Kod': '11',
#                       'LarosateID': 29,
#                       'Takt': 11,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                            'sv': 'Kvartstid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133281',
#                       'Kod': '13',
#                       'LarosateID': 29,
#                       'Takt': 13,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
```

```
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133278',
#                     'Kod': '14',
#                     'LarosateID': 29,
#                     'Takt': 14,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133283',
#                     'Kod': '15',
#                     'LarosateID': 29,
#                     'Takt': 15,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133280',
#                     'Kod': '16',
#                     'LarosateID': 29,
#                     'Takt': 16,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133289',
#                     'Kod': '18',
#                     'LarosateID': 29,
#                     'Takt': 18,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133279',
#                     'Kod': '19',
#                     'LarosateID': 29,
#                     'Takt': 19,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
```

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#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133271',
#                     'Kod': '2',
#                     'LarosateID': 29,
#                     'Takt': 2,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133285',
#                     'Kod': '20',
#                     'LarosateID': 29,
#                     'Takt': 20,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133287',
#                     'Kod': '21',
#                     'LarosateID': 29,
#                     'Takt': 21,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133290',
#                     'Kod': '22',
#                     'LarosateID': 29,
#                     'Takt': 22,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133284',
#                     'Kod': '23',
#                     'LarosateID': 29,
#                     'Takt': 23,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
```

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#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133286',
#                     'Kod': '24',
#                     'LarosateID': 29,
#                     'Takt': 24,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133288',
#                     'Kod': '26',
#                     'LarosateID': 29,
#                     'Takt': 26,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133291',
#                     'Kod': '27',
#                     'LarosateID': 29,
#                     'Takt': 27,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133292',
#                     'Kod': '28',
#                     'LarosateID': 29,
#                     'Takt': 28,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133294',
#                     'Kod': '29',
#                     'LarosateID': 29,
#                     'Takt': 29,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
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#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133274',
#                     'Kod': '3',
#                     'LarosateID': 29,
#                     'Takt': 3,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133293',
#                     'Kod': '30',
#                     'LarosateID': 29,
#                     'Takt': 30,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133296',
#                     'Kod': '31',
#                     'LarosateID': 29,
#                     'Takt': 31,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133295',
#                     'Kod': '32',
#                     'LarosateID': 29,
#                     'Takt': 32,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133299',
#                     'Kod': '34',
#                     'LarosateID': 29,
#                     'Takt': 34,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
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#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133298',
#                     'Kod': '35',
#                     'LarosateID': 29,
#                     'Takt': 35,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133297',
#                     'Kod': '36',
#                     'LarosateID': 29,
#                     'Takt': 36,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133307',
#                     'Kod': '37',
#                     'LarosateID': 29,
#                     'Takt': 37,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133303',
#                     'Kod': '38',
#                     'LarosateID': 29,
#                     'Takt': 38,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133300',
#                     'Kod': '39',
#                     'LarosateID': 29,
#                     'Takt': 39,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
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#                                       'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133269',
#                     'Kod': '4',
#                     'LarosateID': 29,
#                     'Takt': 4,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                       'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133302',
#                     'Kod': '40',
#                     'LarosateID': 29,
#                     'Takt': 40,
#                     'link': []},
#                 {   'Benamning': {   'en': 'One-tenth-time',
#                                       'sv': 'Tiondelsfart'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '8',
#                     'Kod': '10',
#                     'LarosateID': -1,
#                     'Takt': 10,
#                     'link': []},
#                 {   'Benamning': {'en': 'Full-time', 'sv': 'Helfart'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '1',
#                     'Kod': '100',
#                     'LarosateID': -1,
#                     'Takt': 100,
#                     'link': []},
#                 {   'Benamning': {   'en': 'One-eight-time',
#                                       'sv': 'Åttondelsfart'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '128190',
#                     'Kod': '12',
#                     'LarosateID': -1,
#                     'Takt': 12,
#                     'link': []},
#                 {   'Benamning': {   'en': 'One-sixth-time',
#                                       'sv': 'Sjättedelsfart'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {'link': []},
#                     'ID': '7',
```

```
#                       'Kod': '17',
#                       'LarosateID': -1,
#                       'Takt': 17,
#                       'link': []},
#                   {   'Benamning': {   'en': 'One-quarter-time',
#                                        'sv': 'Kvartsfart'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {'link': []},
#                       'ID': '6',
#                       'Kod': '25',
#                       'LarosateID': -1,
#                       'Takt': 25,
#                       'link': []},
#                   {   'Benamning': {   'en': 'One-third-time',
#                                        'sv': 'Tredjedelsfart'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {'link': []},
#                       'ID': '5',
#                       'Kod': '33',
#                       'LarosateID': -1,
#                       'Takt': 33,
#                       'link': []},
#                   {   'Benamning': {'en': 'Half-time', 'sv': 'Halvfart'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {'link': []},
#                       'ID': '4',
#                       'Kod': '50',
#                       'LarosateID': -1,
#                       'Takt': 50,
#                       'link': []},
#                   {   'Benamning': {   'en': 'Two-thirds-time',
#                                        'sv': 'Tvåtredjedelsfart'},
#                       'Beskrivning': {   'sv': 'Ändras till '
#                                                '"Tvåtredjedelsfart" efter '
#                                                'fullbordad '
#                                                'produktionssättning.'},
#                       'Giltighetsperiod': {'link': []},
#                       'ID': '3',
#                       'Kod': '67',
#                       'LarosateID': -1,
#                       'Takt': 67,
#                       'link': []},
#                   {   'Benamning': {   'en': 'Three-quarters-time',
#                                        'sv': 'Trekvartsfart'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {'link': []},
#                       'ID': '2',
#                       'Kod': '75',
#                       'LarosateID': -1,
#                       'Takt': 75,
```

```
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133304',
#                       'Kod': '41',
#                       'LarosateID': 29,
#                       'Takt': 41,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133305',
#                       'Kod': '42',
#                       'LarosateID': 29,
#                       'Takt': 42,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133301',
#                       'Kod': '43',
#                       'LarosateID': 29,
#                       'Takt': 43,
#                       'link': []},
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#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133312',
#                       'Kod': '44',
#                       'LarosateID': 29,
#                       'Takt': 44,
#                       'link': []},
#                   {   'Benamning': {   'en': '- No translation available -',
#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133308',
#                       'Kod': '45',
#                       'LarosateID': 29,
#                       'Takt': 45,
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#                     'link': []},
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#                                      'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
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#                     'Kod': '46',
#                     'LarosateID': 29,
#                     'Takt': 46,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                      'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133310',
#                     'Kod': '47',
#                     'LarosateID': 29,
#                     'Takt': 47,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                      'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133309',
#                     'Kod': '48',
#                     'LarosateID': 29,
#                     'Takt': 48,
#                     'link': []},
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#                                      'sv': 'Halvtid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133311',
#                     'Kod': '49',
#                     'LarosateID': 29,
#                     'Takt': 49,
#                     'link': []},
#                 {   'Benamning': {   'en': '- No translation available -',
#                                      'sv': 'Kvartstid'},
#                     'Beskrivning': {},
#                     'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                             'link': []},
#                     'ID': '133276',
#                     'Kod': '5',
#                     'LarosateID': 29,
#                     'Takt': 5,
```

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#                       'link': []},
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#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
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#                                               'link': []},
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#                       'Kod': '51',
#                       'LarosateID': 29,
#                       'Takt': 51,
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#                                        'sv': 'Halvtid'},
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#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
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#                       'Kod': '52',
#                       'LarosateID': 29,
#                       'Takt': 52,
#                       'link': []},
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#                                        'sv': 'Halvtid'},
#                       'Beskrivning': {},
#                       'Giltighetsperiod': {   'Slutdatum': '2018-06-19',
#                                               'link': []},
#                       'ID': '133314',
#                       'Kod': '53',
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14.25 finansieringsform_JSON

504a ⟨*LadokSession data methods* 461⟩+≡ ◁483 504b▷

```
# added by GQMJr
##############################################################################
#
# finansieringsform_JSON
#
# RETURNERAR JSON forms of financing
def finansieringsform_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/finansieringsform',
    headers=self.headers).json()
  return r

# returns:
# {   'Finansieringsform': [   {   'Benamning': {   'en': '- No translation '
#                                                     'available -',
#                                                   'sv': 'Alumn, med examen fr '
#                                                         'KTH (ej HST-HPR)'},
#                              'Beskrivning': {},
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# ...
```

14.26 utbildningsomrade_JSON

504b ⟨*LadokSession data methods* 461⟩+≡ ◁504a 506▷

```
# added by GQMJr
```

```
########################################################################
#
# utbildningsomrade_JSON
#
# RETURNERAR JSON of subjects
def utbildningsomrade_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/utbildningsomrade',
    headers=self.headers).json()
  return r

# returns:
# {   'Utbildningsomrade': [   {   'Benamning': {   'en': 'Dance',
#                                                   'sv': 'Dansområdet'},
#                              'Beskrivning': {   'sv': 'Infördes från '
#                                                       'budgetåret 1994/95. '
#                                                       'Tidigare fanns bara '
#                                                       'ett konstnärligt '
#                                                       'utbildningsområde '
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#                                                       'ersättningsbelopp '
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# ...
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#                              'Beskrivning': {   'sv': 'Avser utbildning '
#                                                       'inom det allmänna '
#                                                       'utbildningsområdet '
#                                                       'och den '
#                                                       'utbildningsvetenskapliga '
#                                                       'kärnan. T.o.m. '
#                                                       '2012-12-31 avsågs '
#                                                       'även övrig '
#                                                       'verksamhetsförlagd '
#                                                       'utbildning (se '
#                                                       'VU).'},
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# ... ],
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14.27 kravpatidigarestudier_JSON

506 ⟨*LadokSession data methods* 461⟩+≡ ◁504b 507▷

```
# added by GQMJr
################################################################################
#
# kravpatidigarestudier_JSON
#
# RETURNERAR JSON of krequirements for earlier studies
def kravpatidigarestudier_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/kravpatidigarestudier',
    headers=self.headers).json()
  return r

# returns
# {   'KravPaTidigareStudier': [   {   'Benamning': {   'en': 'University '
#                                                        'studies required',
#                                                  'sv': 'Tidigare '
#                                                        'högskolestudier '
#                                                        'krävs'},
#                                  'Beskrivning': {},
#                                  'Emilvarde': 'uh',
#                                  'Giltighetsperiod': {'link': []},
```

```
#                                     'ID': '1',
#                                     'Kod': 'UH',
#                                     'LarosateID': -1,
#                                     'link': []},
#                                 {   'Benamning': {   'en': 'Upper secondary '
#                                                          'or equivalent',
#                                                      'sv': 'Inga tidigare '
#                                                          'högskolestudier '
#                                                          'krävs'},
#                                     'Beskrivning': {},
#                                     'Emilvarde': 'grundlaggande',
#                                     'Giltighetsperiod': {'link': []},
#                                     'ID': '2',
#                                     'Kod': 'GR',
#                                     'LarosateID': -1,
#                                     'link': []},
#                                 {   'Benamning': {   'en': 'No general entry '
#                                                          'requirements '
#                                                          'needed',
#                                                      'sv': 'Ingen '
#                                                          'grundläggande '
#                                                          'behörighet krävs'},
#                                     'Beskrivning': {},
#                                     'Emilvarde': 'inga',
#                                     'Giltighetsperiod': {'link': []},
#                                     'ID': '3',
#                                     'Kod': 'IN',
#                                     'LarosateID': -1,
#                                     'link': []}],
# 'link': []}
```

14.28 studieordning_JSON

507 ⟨*LadokSession data methods* 461⟩+≡ ◁506 513▷

```
# added by GQMJr
#############################################################################
#
# studieordning_JSON
#
# RETURNERAR JSON of study regulation
def studieordning_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/studieordning',
    headers=self.headers).json()
  return r

# returns:
# {   'Studieordning': [   {   'Benamning': {   'en': 'Higher education, study '
```

```
#                                                       'regulation of 1993',
#                                              'sv': 'Högskoleutbildning, 1993 '
#                                                    'års studieordning'},
#                          'Beskrivning': {   'sv': 'Avser i Ladok 1993 års '
#                                                   'studieordning inklusive '
#                                                   'dess föregångare'},
#                          'EnhetID': 9,
#                          'Giltighetsperiod': {'link': []},
#                          'ID': '2',
#                          'Kod': 'HÖ93',
#                          'LarosateID': -1,
#                          'UtbildningsformID': 1,
#                          'link': []},
#                 {   'Benamning': {   'en': 'Higher education, study '
#                                                   'regulation of 2007',
#                                              'sv': 'Högskoleutbildning, 2007 '
#                                                    'års studieordning'},
#                          'Beskrivning': {},
#                          'EnhetID': 2,
#                          'Giltighetsperiod': {   'Startdatum': '2007-07-01',
#                                                  'link': []},
#                          'ID': '1',
#                          'Kod': 'HÖ07',
#                          'LarosateID': -1,
#                          'UtbildningsformID': 1,
#                          'link': []},
#                 {   'Benamning': {   'en': 'Access education (hours)',
#                                              'sv': 'Behörighetsgivande '
#                                                    'förutbildning (timmar)'},
#                          'Beskrivning': {},
#                          'EnhetID': 5,
#                          'Giltighetsperiod': {'link': []},
#                          'ID': '12',
#                          'Kod': 'ÖVBT',
#                          'LarosateID': -1,
#                          'UtbildningsformID': 100970,
#                          'link': []},
#                 {   'Benamning': {   'en': 'Access education (fup)',
#                                              'sv': 'Behörighetsgivande '
#                                                    'förutbildning (poäng)'},
#                          'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                   'förordning (2018:1519) '
#                                                   'om behörighetsgivande '
#                                                   'och '
#                                                   'högskoleintroducerande '
#                                                   'utbildning resp. '
#                                                   'tidigare gällande '
#                                                   'förordning (2007:432) '
#                                                   'om behörighetsgivande '
#                                                   'förutbildning vid '
```

```
#                                                          'universitet och '
#                                                          'högskolor'},
#                                 'EnhetID': 4,
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '3',
#                                 'Kod': 'FÖPO',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 2,
#                                 'link': []},
#                          {   'Benamning': {   'en': 'Access education (weeks)',
#                                               'sv': 'Behörighetsgivande '
#                                                     'förutbildning (veckor)'},
#                                 'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                          'förordning (2018:1519) '
#                                                          'om behörighetsgivande '
#                                                          'och '
#                                                          'högskoleintroducerande '
#                                                          'utbildning resp. '
#                                                          'tidigare gällande '
#                                                          'förordning (2007:432) '
#                                                          'om behörighetsgivande '
#                                                          'förutbildning vid '
#                                                          'universitet och '
#                                                          'högskolor'},
#                                 'EnhetID': 1,
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '4',
#                                 'Kod': 'FÖVE',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 2,
#                                 'link': []},
#                          {   'Benamning': {   'en': 'Internal education (ORU)',
#                                               'sv': 'Högskoleintern utbildning '
#                                                     '(ORU)'},
#                                 'Beskrivning': {   'sv': 'Intern utbildning vid '
#                                                          'Örebro universitet'},
#                                 'EnhetID': 6,
#                                 'Giltighetsperiod': {   'Slutdatum': '2007-06-30',
#                                                         'Startdatum': '2004-01-01',
#                                                         'link': []},
#                                 'ID': '15',
#                                 'Kod': 'ÖVHI',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 100970,
#                                 'link': []},
#                          {   'Benamning': {   'en': 'Older defence education',
#                                               'sv': 'Äldre utbildning vid '
#                                                     'Försvarshögskolan'},
#                                 'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                          'förordningen '
```

```
#                                                 '(1996:1476) med '
#                                                 'instruktion för '
#                                                 'Försvarshögskolan'},
#                             'EnhetID': 10,
#                             'Giltighetsperiod': {   'Slutdatum': '2007-12-31',
#                                                     'link': []},
#                             'ID': '16',
#                             'Kod': 'ÖVFU',
#                             'LarosateID': -1,
#                             'UtbildningsformID': 100970,
#                             'link': []},
#                         {   'Benamning': {   'en': 'Post-secondary vocational '
#                                                    'education and training',
#                                              'sv': 'Kvalificerad '
#                                                    'yrkesutbildning'},
#                             'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                      'förordningen '
#                                                      '(2001:1131) om '
#                                                      'kvalificerad '
#                                                      'yrkesutbildning '
#                                                      '(upphävd 2009-04-15)'},
#                             'EnhetID': 7,
#                             'Giltighetsperiod': {   'Slutdatum': '2013-12-31',
#                                                     'link': []},
#                             'ID': '13',
#                             'Kod': 'KY02',
#                             'LarosateID': -1,
#                             'UtbildningsformID': 100968,
#                             'link': []},
#                         {   'Benamning': {   'en': 'Preparatory education',
#                                              'sv': 'Preparandutbildning'},
#                             'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                      'förordningen (1985:681) '
#                                                      'om preparandutbildning '
#                                                      'i svenska (upphävd '
#                                                      '1993-07-01)'},
#                             'EnhetID': 6,
#                             'Giltighetsperiod': {   'Slutdatum': '1993-06-30',
#                                                     'link': []},
#                             'ID': '14',
#                             'Kod': 'ÖVPR',
#                             'LarosateID': -1,
#                             'UtbildningsformID': 100970,
#                             'link': []},
#                         {   'Benamning': {   'en': 'Contract education '
#                                                    '(hours)',
#                                              'sv': 'Uppdragsutbildning, Övrig '
#                                                    'utbildning (timmar)'},
#                             'Beskrivning': {},
#                             'EnhetID': 5,
```

```
#                               'Giltighetsperiod': {   'Slutdatum': '2018-12-31',
#                                                       'link': []},
#                               'ID': '9',
#                               'Kod': 'ÖVUT',
#                               'LarosateID': -1,
#                               'UtbildningsformID': 100970,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Higher vocational '
#                                                      'education',
#                                                'sv': 'Yrkeshögskoleutbildning'},
#                               'Beskrivning': {   'sv': 'Utbildning enligt '
#                                                        'förordning (2009:130) '
#                                                        'om yrkeshögskolan'},
#                               'EnhetID': 8,
#                               'Giltighetsperiod': {   'Startdatum': '2009-07-01',
#                                                       'link': []},
#                               'ID': '5',
#                               'Kod': 'YH09',
#                               'LarosateID': -1,
#                               'UtbildningsformID': 4,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Contract education '
#                                                      '(credits)',
#                                                'sv': 'Uppdragsutbildning '
#                                                      '(högskolepoäng)'},
#                               'Beskrivning': {},
#                               'EnhetID': 2,
#                               'Giltighetsperiod': {   'Startdatum': '2007-07-01',
#                                                       'link': []},
#                               'ID': '17',
#                               'Kod': 'UPHP',
#                               'LarosateID': -1,
#                               'UtbildningsformID': 100928,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Contract education '
#                                                      '(weeks)',
#                                                'sv': 'Uppdragsutbildning '
#                                                      '(veckor)'},
#                               'Beskrivning': {},
#                               'EnhetID': 1,
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '18',
#                               'Kod': 'UPVE',
#                               'LarosateID': -1,
#                               'UtbildningsformID': 100928,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Police education',
#                                                'sv': 'Polisutbildning'},
#                               'Beskrivning': {   'sv': 'Polisutbildning som ej '
#                                                        'uppfyller alla '
```

```
#                                                          'kvalitetskrav för '
#                                                          'högskoleutbildning.'},
#                                 'EnhetID': 2,
#                                 'Giltighetsperiod': {'link': []},
#                                 'ID': '109831',
#                                 'Kod': 'PU99',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 100969,
#                                 'link': []},
#                             {   'Benamning': {   'en': 'Police education, equal '
#                                                        'to Higher education',
#                                                  'sv': 'Polisutbildning, '
#                                                        'motsvarande '
#                                                        'högskoleutbildning'},
#                                 'Beskrivning': {   'sv': 'Polisutbildning som '
#                                                          'uppfyller '
#                                                          'kvalitetskraven för '
#                                                          'högskoleutbildning'},
#                                 'EnhetID': 2,
#                                 'Giltighetsperiod': {   'Startdatum': '2018-07-01',
#                                                         'link': []},
#                                 'ID': '135370',
#                                 'Kod': 'PU18',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 100969,
#                                 'link': []},
#                             {   'Benamning': {'en': 'Ö-Fel', 'sv': 'Ö-Fel'},
#                                 'Beskrivning': {},
#                                 'EnhetID': 1,
#                                 'Giltighetsperiod': {   'Slutdatum': '1900-01-01',
#                                                         'link': []},
#                                 'ID': '138710',
#                                 'Kod': 'FEL',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 100970,
#                                 'link': []},
#                             {   'Benamning': {   'en': 'Contract education '
#                                                        '(hours)',
#                                                  'sv': 'Uppdragsutbildning '
#                                                        '(timmar)'},
#                                 'Beskrivning': {},
#                                 'EnhetID': 5,
#                                 'Giltighetsperiod': {   'Startdatum': '2019-01-01',
#                                                         'link': []},
#                                 'ID': '147898',
#                                 'Kod': 'UPTI',
#                                 'LarosateID': -1,
#                                 'UtbildningsformID': 100928,
#                                 'link': []}],
#     'link': []}
```

14.29 enhet_JSON

513 ⟨*LadokSession data methods* 461⟩+≡ ◁507 515▷

```
# added by GQMJr
##############################################################################
#
# enhet_JSON
#
# RETURNERAR JSON of units
def enhet_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/grunddata/enhet',
    headers=self.headers).json()
  return r

# returns:
# {   'Enhet': [   {   'Benamning': {   'en': 'Credit points',
#                                       'sv': 'Poäng (Övrig utbildning)'},
#                  'Beskrivning': {},
#                  'Giltighetsperiod': {   'Slutdatum': '2018-01-01',
#                                          'link': []},
#                  'Helarsvarde': 40,
#                  'ID': '6',
#                  'Kod': 'AUP',
#                  'LarosateID': -1,
#                  'link': []},
#              {   'Benamning': {   'en': 'Pre-education credits',
#                                       'sv': 'Förutbildningspoäng'},
#                  'Beskrivning': {},
#                  'Giltighetsperiod': {'link': []},
#                  'Helarsvarde': 60,
#                  'ID': '4',
#                  'Kod': 'FUP',
#                  'LarosateID': -1,
#                  'link': []},
#              {   'Benamning': {'en': 'Credits', 'sv': 'Högskolepoäng'},
#                  'Beskrivning': {   'sv': 'Översattes 2007-2010 med Higher '
#                                           'education credits'},
#                  'Giltighetsperiod': {   'Startdatum': '2007-07-01',
#                                          'link': []},
#                  'Helarsvarde': 60,
#                  'ID': '2',
#                  'Kod': 'HP',
#                  'LarosateID': -1,
#                  'link': []},
#              {   'Benamning': {   'en': 'Converted credits',
#                                       'sv': 'Konverterade högskolepoäng'},
#                  'Beskrivning': {   'sv': 'Enheten poäng konverterades '
#                                           'till högskolepoäng i Ladok för '
#                                           '1993 års studieordning i '
```

```
#                                          'samband med övergången till '
#                                          '2007 års studieordning'},
#                 'Giltighetsperiod': {   'Slutdatum': '2007-06-30',
#                                         'link': []},
#                 'Helarsvarde': 60,
#                 'ID': '9',
#                 'Kod': 'HP-K',
#                 'LarosateID': -1,
#                 'link': []},
#             {   'Benamning': {   'en': 'Internal credits',
#                                  'sv': 'Interna poäng'},
#                 'Beskrivning': {   'sv': 'Har enbart använts av '
#                                          'Försvarshögskolan'},
#                 'Giltighetsperiod': {   'Slutdatum': '2016-07-01',
#                                         'link': []},
#                 'Helarsvarde': 60,
#                 'ID': '10',
#                 'Kod': 'IP',
#                 'LarosateID': -1,
#                 'link': []},
#             {   'Benamning': {'en': 'KY credits', 'sv': 'KY-poäng'},
#                 'Beskrivning': {},
#                 'Giltighetsperiod': {   'Slutdatum': '2013-12-31',
#                                         'Startdatum': '2002-01-01',
#                                         'link': []},
#                 'Helarsvarde': 40,
#                 'ID': '7',
#                 'Kod': 'KYP',
#                 'LarosateID': -1,
#                 'link': []},
#             {   'Benamning': {'en': 'Hours', 'sv': 'Timmar'},
#                 'Beskrivning': {},
#                 'Giltighetsperiod': {'link': []},
#                 'Helarsvarde': 1600,
#                 'ID': '5',
#                 'Kod': 'T',
#                 'LarosateID': -1,
#                 'link': []},
#             {   'Benamning': {'en': 'Weeks', 'sv': 'Veckor'},
#                 'Beskrivning': {},
#                 'Giltighetsperiod': {'link': []},
#                 'Helarsvarde': 40,
#                 'ID': '1',
#                 'Kod': 'V',
#                 'LarosateID': -1,
#                 'link': []},
#             {   'Benamning': {   'en': 'HVE credits',
#                                  'sv': 'Yrkeshögskolepoäng'},
#                 'Beskrivning': {},
#                 'Giltighetsperiod': {   'Startdatum': '2009-07-01',
```

```
#                                          'link': []},
#                  'Helarsvarde': 200,
#                  'ID': '8',
#                  'Kod': 'YHP',
#                  'LarosateID': -1,
#                  'link': []}],
# 'link': []}
```

14.30 studielokalisering_JSON

515 ⟨*LadokSession data methods* 461⟩+≡ ◁513 523▷

```
# added by GQMJr
#############################################################################
#
# studielokalisering_JSON
#
# RETURNERAR JSON of study location
def studielokalisering_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/studielokalisering',
    headers=self.headers).json()
  return r

# returns:
# {   'Studielokalisering': [   {   'Benamning': {   'en': 'Botkyrka',
#                                                    'sv': 'Botkyrka'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Slutdatum': '1997-12-31',
#                                                           'Startdatum': '1997-08-01',
#                                                           'link': []},
#                                   'ID': '131772',
#                                   'Kod': '0127',
#                                   'LarosateID': 29,
#                                   'OrtID': 110990,
#                                   'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                   'method': 'GET',
#                                                   'rel': 'svenskort',
#                                                   'uri': 'https://api.ladok.se:443/kat
#                               {   'Benamning': {   'en': 'Haninge',
#                                                    'sv': 'Haninge'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Slutdatum': '2016-06-30',
#                                                           'Startdatum': '1994-08-01',
#                                                           'link': []},
#                                   'ID': '131773',
#                                   'Kod': '0136',
#                                   'LarosateID': 29,
#                                   'OrtID': 110991,
```

```
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'Nyköping',
#                                                      'sv': 'Nyköping'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '2005-06-30',
#                                                             'Startdatum': '2005-01-01',
#                                                             'link': []},
#                                     'ID': '131777',
#                                     'Kod': '0480',
#                                     'LarosateID': 29,
#                                     'OrtID': 44,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'Valdemarsvik',
#                                                      'sv': 'Valdemarsvik'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '1999-12-31',
#                                                             'link': []},
#                                     'ID': '131780',
#                                     'Kod': '0563',
#                                     'LarosateID': 29,
#                                     'OrtID': 60,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {'en': 'Visby', 'sv': 'Visby'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '2000-12-31',
#                                                             'Startdatum': '1991-08-01',
#                                                             'link': []},
#                                     'ID': '131781',
#                                     'Kod': '0980',
#                                     'LarosateID': 29,
#                                     'OrtID': 108,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'Ängelholm',
#                                                      'sv': 'Ängelholm'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '1997-12-31',
#                                                             'Startdatum': '1997-12-31',
#                                                             'link': []},
```

```
#                                     'ID': '131782',
#                                     'Kod': '1292',
#                                     'LarosateID': 29,
#                                     'OrtID': 154,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {'en': 'Falun', 'sv': 'Falun'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '1998-12-31',
#                                                             'Startdatum': '1994-08-01',
#                                                             'link': []},
#                                     'ID': '131787',
#                                     'Kod': '2080',
#                                     'LarosateID': 29,
#                                     'OrtID': 263,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {'en': 'Gävle', 'sv': 'Gävle'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Slutdatum': '1998-12-31',
#                                                             'Startdatum': '1997-08-01',
#                                                             'link': []},
#                                     'ID': '131784',
#                                     'Kod': '2180',
#                                     'LarosateID': 29,
#                                     'OrtID': 273,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'Stockholm School of '
#                                                            'Economics',
#                                                      'sv': 'Handelshögskolan'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
#                                     'ID': '135191',
#                                     'Kod': 'HANDELS',
#                                     'LarosateID': 29,
#                                     'OrtID': 18,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'KI Flemingsberg',
#                                                      'sv': 'KI Flemingsberg'},
```

```
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                           'link': []},
#                                   'ID': '135192',
#                                   'Kod': 'KI_FLEMINGS',
#                                   'LarosateID': 29,
#                                   'OrtID': 7,
#                                   'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                   'method': 'GET',
#                                                   'rel': 'svenskort',
#                                                   'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {   'en': 'University of Arts, '
#                                                      'Crafts and Design',
#                                                'sv': 'Konstfack'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Startdatum': '2018-08-27',
#                                                           'link': []},
#                                   'ID': '147750',
#                                   'Kod': 'KONSTFACK',
#                                   'LarosateID': 29,
#                                   'OrtID': 18,
#                                   'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                   'method': 'GET',
#                                                   'rel': 'svenskort',
#                                                   'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {   'en': 'KTH Campus',
#                                                'sv': 'KTH Campus'},
#                                   'Beskrivning': {   'sv': '"Campus" '
#                                                            'Valhallavägen'},
#                                   'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                           'link': []},
#                                   'ID': '135195',
#                                   'Kod': 'KTHCAMPUS',
#                                   'LarosateID': 29,
#                                   'OrtID': 18,
#                                   'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                   'method': 'GET',
#                                                   'rel': 'svenskort',
#                                                   'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {'en': 'Täby', 'sv': 'Täby'},
#                                   'Beskrivning': {},
#                                   'Giltighetsperiod': {   'Slutdatum': '1999-12-31',
#                                                           'link': []},
#                                   'ID': '131774',
#                                   'Kod': '0160',
#                                   'LarosateID': 29,
#                                   'OrtID': 14,
#                                   'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                   'method': 'GET',
#                                                   'rel': 'svenskort',
```

```
#                                                   'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'Stockholm',
#                                                     'sv': 'Stockholm'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '2019-01-14',
#                                                            'Startdatum': '1917-10-19',
#                                                            'link': []},
#                                    'ID': '131778',
#                                    'Kod': '0180',
#                                    'LarosateID': 29,
#                                    'OrtID': 18,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'Sundsvall',
#                                                     'sv': 'Sundsvall'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '1997-12-31',
#                                                            'Startdatum': '1996-08-01',
#                                                            'link': []},
#                                    'ID': '131785',
#                                    'Kod': '2281',
#                                    'LarosateID': 29,
#                                    'OrtID': 281,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'Örnsköldsvik',
#                                                     'sv': 'Örnsköldsvik'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '1997-12-31',
#                                                            'Startdatum': '1997-01-01',
#                                                            'link': []},
#                                    'ID': '131788',
#                                    'Kod': '2284',
#                                    'LarosateID': 29,
#                                    'OrtID': 284,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'KTH Solna',
#                                                     'sv': 'KTH Solna'},
#                                    'Beskrivning': {   'en': 'SciLife Labs, '
#                                                             'Solna',
#                                                       'sv': 'SciLife Labs, '
#                                                             'Solna'},
#                                    'Giltighetsperiod': {   'Startdatum': '2018-06-18',
```

```
#                                                          'link': []},
#                                 'ID': '135610',
#                                 'Kod': 'SCILIFELAB',
#                                 'LarosateID': 29,
#                                 'OrtID': 25,
#                                 'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                 'method': 'GET',
#                                                 'rel': 'svenskort',
#                                                 'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {   'en': 'KTH Södertälje',
#                                                'sv': 'KTH Södertälje'},
#                                 'Beskrivning': {'sv': '"Campus" Södertälje'},
#                                 'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                         'link': []},
#                                 'ID': '135196',
#                                 'Kod': 'SODERTALJE',
#                                 'LarosateID': 29,
#                                 'OrtID': 20,
#                                 'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                 'method': 'GET',
#                                                 'rel': 'svenskort',
#                                                 'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {   'en': 'Järfälla',
#                                                'sv': 'Järfälla'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {   'Slutdatum': '1996-06-30',
#                                                         'Startdatum': '1994-08-01',
#                                                         'link': []},
#                                 'ID': '131775',
#                                 'Kod': '0123',
#                                 'LarosateID': 29,
#                                 'OrtID': 5,
#                                 'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                 'method': 'GET',
#                                                 'rel': 'svenskort',
#                                                 'uri': 'https://api.ladok.se:443/kat
#                           {   'Benamning': {   'en': 'Huddinge',
#                                                'sv': 'Huddinge'},
#                                 'Beskrivning': {},
#                                 'Giltighetsperiod': {   'Slutdatum': '2019-01-14',
#                                                         'Startdatum': '2002-01-01',
#                                                         'link': []},
#                                 'ID': '131779',
#                                 'Kod': '0126',
#                                 'LarosateID': 29,
#                                 'OrtID': 109830,
#                                 'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                 'method': 'GET',
#                                                 'rel': 'svenskort',
#                                                 'uri': 'https://api.ladok.se:443/kat
```

```
#                                {   'Benamning': {   'en': 'Södertälje',
#                                                     'sv': 'Södertälje'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '2019-01-14',
#                                                            'Startdatum': '1987-01-01',
#                                                            'link': []},
#                                    'ID': '131771',
#                                    'Kod': '0181',
#                                    'LarosateID': 29,
#                                    'OrtID': 20,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'Norrtälje',
#                                                     'sv': 'Norrtälje'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '2005-06-30',
#                                                            'Startdatum': '1997-08-01',
#                                                            'link': []},
#                                    'ID': '131776',
#                                    'Kod': '0188',
#                                    'LarosateID': 29,
#                                    'OrtID': 28,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {'en': 'Örebro', 'sv': 'Örebro'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '1998-06-30',
#                                                            'Startdatum': '1996-08-01',
#                                                            'link': []},
#                                    'ID': '131786',
#                                    'Kod': '1880',
#                                    'LarosateID': 29,
#                                    'OrtID': 237,
#                                    'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                    'method': 'GET',
#                                                    'rel': 'svenskort',
#                                                    'uri': 'https://api.ladok.se:443/kat
#                                {   'Benamning': {   'en': 'Västerås',
#                                                     'sv': 'Västerås'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Slutdatum': '1999-12-31',
#                                                            'Startdatum': '1994-08-01',
#                                                            'link': []},
#                                    'ID': '131783',
#                                    'Kod': '1980',
#                                    'LarosateID': 29,
```

```
#                                     'OrtID': 248,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'AlbaNova',
#                                                      'sv': 'AlbaNova'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
#                                     'ID': '135190',
#                                     'Kod': 'ALBANOVA',
#                                     'LarosateID': 29,
#                                     'OrtID': 18,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'KTH Flemingsberg',
#                                                      'sv': 'KTH Flemingsberg'},
#                                     'Beskrivning': {   'sv': '"campus" '
#                                                              'Flemingsberg'},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
#                                     'ID': '135198',
#                                     'Kod': 'FLEMINGSB',
#                                     'LarosateID': 29,
#                                     'OrtID': 7,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'KI Solna',
#                                                      'sv': 'KI Solna'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
#                                     'ID': '135193',
#                                     'Kod': 'KI_SOLNA',
#                                     'LarosateID': 29,
#                                     'OrtID': 25,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'KTH Kista',
#                                                      'sv': 'KTH Kista'},
#                                     'Beskrivning': {'sv': '"Campus" Kista'},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
```

```
#                                     'ID': '135194',
#                                     'Kod': 'KISTA',
#                                     'LarosateID': 29,
#                                     'OrtID': 18,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#                                 {   'Benamning': {   'en': 'Stockholm University',
#                                                      'sv': 'Stockholms '
#                                                            'universitet'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                                             'link': []},
#                                     'ID': '135197',
#                                     'Kod': 'SU',
#                                     'LarosateID': 29,
#                                     'OrtID': 18,
#                                     'link': [   {   'mediaType': 'application/vnd.ladok+
#                                                     'method': 'GET',
#                                                     'rel': 'svenskort',
#                                                     'uri': 'https://api.ladok.se:443/kat
#     'link': []}
```

14.31 antagningsomgang_JSON

523 ⟨*LadokSession data methods* 461⟩+≡ ◁515 524▷

```
# added by GQMJr
################################################################################
#
# antagningsomgang_JSON
#
# RETURNERAR JSON of admission round
def antagningsomgang_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/antagningsomgang',
    headers=self.headers).json()
  return r

# returns:
# {   'Antagningsomgang': [   {   'Benamning': {   'en': 'Application to courses '
#                                                      'within programme at '
#                                                      'KTH HT2020',
#                                                  'sv': 'Anmälan till kurs inom '
#                                                        'program på KTH HT2020'},
#                             'Beskrivning': {},
#                             'Giltighetsperiod': {'link': []},
#                             'ID': '150233',
```

```
#                               'Kod': '29AKPHT20',
#                               'LarosateID': 29,
#                               'SistaAnmalningsdag': '2020-05-15',
#                               'SistaAnnonseringsdag': '2021-05-15',
#                               'Studieavgiftsbelagd': True,
#                               'link': []},
#                           {   'Benamning': {   'en': 'Application to courses '
#                                                      'within programme at '
#                                                      'KTH VT2019',
#                                                'sv': 'Antagning till kurs '
#                                                      'inom program KTH '
#                                                      'VT2019'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'ID': '142134',
#                               'Kod': '29AKPVT19',
#                               'LarosateID': 29,
#                               'SistaAnmalningsdag': '2018-11-15',
#                               'SistaAnnonseringsdag': '2019-02-28',
#                               'Studieavgiftsbelagd': True,
#                               'link': []},
# ... ],
# 'link': []}
```

14.32 organisation_by_uid_JSON

524 ⟨*LadokSession data methods* 461⟩+≡ ◁523 525▷

```
# 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-katalogi
```

```
#                 'method': 'GET',
#                 'rel': 'self',
#                 'uri': 'https://api.ladok.se:443/kataloginformation/organisation/2474f
```

14.33 utbildningstyp_JSON

525 ⟨*LadokSession data methods* 461⟩+≡ ◁524 527▷

```
# added by GQMJr
#############################################################################
#
# utbildningstyp_JSON
#
# RETURNERAR JSON of types of education
# for information about these see https://ladok.se/wp-content/uploads/2018/01/Funktionsb
def utbildningstyp_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/utbildningstyp',
    headers=self.headers).json()
  return r

# returns:
# {   'Utbildningstyp': [   {   'AvserTillfalle': False,
#                               'Benamning': {   'en': 'Module without scope',
#                                                'sv': 'Modul utan omfattning'},
#                               'Beskrivning': {},
#                               'Giltighetsperiod': {'link': []},
#                               'Grundtyp': 'MODUL',
#                               'ID': '3',
#                               'Kod': '2007MUO',
#                               'LarosateID': -1,
#                               'Regelverk': {   'Regelvarden': [   {   'Regelnamn': 'co
#                                                                       'Uid': 'd31a4080
#                                                                       'Varde': 'true',
#                                                                       'link': [   ]},
#                                                                   {   'Regelnamn': 'co
#                                                                       'Uid': 'd31a4084
#                                                                       'Varde': 'true',
#                                                                       'link': [   ]},
#                                                                   {   'Regelnamn': 'co
#                                                                       'Uid': 'd31a4086
#                                                                       'Varde': 'false'
#                                                                       'link': [   ]},
#                                                                   {   'Regelnamn': 'co
#                                                                       'Uid': 'd31a4085
#                                                                       'Varde': 'true',
#                                                                       'link': [   ]},
#                                                                   {   'Regelnamn': 'co
#                                                                       'Uid': 'd31a4082
```

```
#                                                                   'Varde': 'false'
#                                                                   'link': [   ]},
#                                                               {   'Regelnamn': 'co
#                                                                   'Uid': 'd31a196f
#                                                                   'Varde': 'grupp.
#                                                                   'link': [   ]},
#                                                               {   'Regelnamn': 'co
#                                                                   'Uid': 'd31a4081
#                                                                   'Varde': 'grupp.
#                                                                   'link': [   ]},
#                                                               {   'Regelnamn': 'co
#                                                                   'Uid': 'd31a4083
#                                                                   'Varde': 'false'
#                                                                   'link': [   ]}],
#                                            'Uid': '0441f5ba-1b3f-11e6-aff0-4640446
#                                            'link': []},
#                                'Sorteringsordning': 50,
#                                'StudieordningID': 1,
#                                'TillfalleInomUtbildningstyper': [],
#                                'UtbildningstyperInomUtbildningstyp': [],
#                                'link': []},
#                           {    'AvserTillfalle': False,
#                                'Benamning': {'en': 'Module', 'sv': 'Modul'},
#                                'Beskrivning': {},
#                                'Giltighetsperiod': {'link': []},
#                                'Grundtyp': 'MODUL',
#                                'ID': '4',
#                                'Kod': '2007MOD',
#                                'LarosateID': -1,
#                                'Regelverk': {   'Regelvarden': [   {   'Regelnamn': 'co
#                                                                        'Uid': 'b18301be
#                                                                        'Varde': 'false'
#                                                                        'link': [   ]},
#                                                                    {   'Regelnamn': 'co
#                                                                        'Uid': 'b18301c1
#                                                                        'Varde': 'true',
#                                                                        'link': [   ]},
#                                                                    {   'Regelnamn': 'co
#                                                                        'Uid': 'b18301bb
#                                                                        'Varde': 'true',
#                                                                        'link': [   ]},
#                                                                    {   'Regelnamn': 'co
#                                                                        'Uid': 'b18301bf
#                                                                        'Varde': 'false'
#                                                                        'link': [   ]},
#                                                                    {   'Regelnamn': 'co
#                                                                        'Uid': 'b18301bd
#                                                                        'Varde': 'grupp.
#                                                                        'link': [   ]},
#                                                                    {   'Regelnamn': 'co
```

```
#                                                                    'Uid': 'b18301bc
#                                                                    'Varde': 'true',
#                                                                    'link': [   ]},
#                                                                {   'Regelnamn': 'co
#                                                                    'Uid': 'b18301c0
#                                                                    'Varde': 'grupp.
#                                                                    'link': [   ]}],
#                                                 'Uid': '0461b2c4-1b3f-11e6-aff0-4640446
#                                                 'link': []},
#                                  'Sorteringsordning': 50,
#                                  'StudieordningID': 1,
#                                  'TillfalleInomUtbildningstyper': [],
#                                  'UtbildningstyperInomUtbildningstyp': [],
#                                  'link': []},
# ...
# ],
#     'link': []}
```

14.34 aktivitetstillfallestyp_JSON

527 ⟨*LadokSession data methods* 461⟩+≡ ◁525 528▷

```
# added by GQMJr
##############################################################################
#
# aktivitetstillfallestyp_JSON
#
# RETURNERAR JSON of activities
def aktivitetstillfallestyp_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/aktivitetstillfallestyp',
    headers=self.headers).json()
  return r

# returns:
# {   'Aktivitetstillfallestyp': [   {   'Benamning': {   'en': 'Partial Exam',
#                                                         'sv': 'Kontrollskrivning'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                    'ID': '135201',
#                                    'Kod': 'KS',
#                                    'LarosateID': 29, 'link': []},
#                                {   'Benamning': {   'en': 're-examination',
#                                                     'sv': 'Omtentamen'},
#                                    'Beskrivning': {},
#                                    'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                    'ID': '135200',
#                                    'Kod': 'OMTENTA',
#                                    'LarosateID': 29, 'link': []},
```

```
#                                 {   'Benamning': {   'en': 'Examination',
#                                                      'sv': 'Tentamen'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {   'Startdatum': '2018-06-20',
#                                     'ID': '135199',
#                                     'Kod': 'TENTAMEN',
#                                     'LarosateID': 29, 'link': []},
#                                 {   'Benamning': {   'en': 'Unspecified '
#                                                            'activity',
#                                                      'sv': 'Övrigt '
#                                                            'aktivitetstillfälle'},
#                                     'Beskrivning': {},
#                                     'Giltighetsperiod': {'link': []},
#                                     'ID': '1',
#                                     'Kod': 'ÖV',
#                                     'LarosateID': -1, 'link': []}],
# 'link': []}
```

14.35 catalog_service_index__JSON

528 ⟨*LadokSession data methods* 461⟩+≡ ◁527 529a▷

```
# added by GQMJr
#############################################################################
#
# catalog_service_index__JSON
#
# RETURNERAR JSON of admission round
def catalog_service_index__JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url + '/kataloginformation/service/index',
    headers=self.headers).json()
  return r

# returns:
# {   'ServiceName': 'Ladok3 REST-tjänst för kataloginformation',
# 'link': [   {   'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-katalogi
#                 'method': 'GET',
#                 'rel': 'http://relations.ladok.se/kataloginformation/utbildningstyp',
#                 'uri': 'https://api.ladok.se:443/kataloginformation/grunddata/utbildni
#             {   'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-katalogi
#                 'method': 'GET',
#                 'rel': 'http://relations.ladok.se/kataloginformation/betygsskala',
#                 'uri': 'https://api.ladok.se:443/kataloginformation/grunddata/betygssk
# ...
#             {   'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-katalogi
#                 'method': 'GET',
#                 'rel': 'http://relations.ladok.se/kataloginformation/anvandarbehorighe
#                 'uri': 'https://api.ladok.se:443/kataloginformation/behorigheter'}]}
```

14.36 omradesbehorighet_JSON

529a ⟨*LadokSession data methods* 461⟩+≡ ◁528 529b▷

```
# added by GQMJr
#############################################################################
#
# omradesbehorighet_JSON
#
# RETURNERAR JSON of "omradesbehorighet"
# for information see https://antagning.se/globalassets/omradesbehorigheter-hogskolan.pdf
def omradesbehorighet_JSON(self):
  r = self.session.get(
    url=self.base_gui_proxy_url +
      '/kataloginformation/grunddata/omradesbehorighet',
    headers=self.headers).json()
  return r
```

14.37 hamtaStudieResultatForStudent_JSON

529b ⟨*LadokSession data methods* 461⟩+≡ ◁529a 529c▷

```
# added by GQMJr
#############################################################################
#
# hamtaStudieResultatForStudent_JSON
#
# studentUID             - student's UID
# RETURNERAR JSON of results

# NOTE: These are a work in progress and not ready yet
# def hamtaStudieResultatForStudent_JSON (self, studentUID):
#     r = self.session.get(url = self.base_gui_proxy_url + '/resultat/studieresultat/resu
#     return r

# def student_participation_JSON (self, studentUID):
#     headers = self.headers.copy()
#     headers['Content-Type'] = 'application/vnd.ladok-studiedeltagande'
#     headers['Accept'] = headers['Accept']+', application/vnd.ladok-studiedeltagande'
#     r = self.session.get(url = self.base_gui_proxy_url + '/studiedeltagande/tillfalles
#     return {r.status_code, r.text}
```

14.38 examen_student_uid_JSON

529c ⟨*LadokSession data methods* 461⟩+≡ ◁529b 530▷

```
# added by GQMJr
#############################################################################
#
# examen_student_uid_JSON
```

```
  #
  # studentUID             - student's UID
  # RETURNERAR JSON of admission round
  def examen_student_uid_JSON(self):
    r = self.session.get(
      url=self.base_gui_proxy_url + 'examen/student/+studentUID',
      headers=self.headers).json()
    return r
```

14.39 Helper methods

530 ⟨*LadokSession data methods* 461⟩+≡ ◁529c

```
  ########################################################################
  ##
  ## 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=FORNAM
        + 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
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 Lad
      'education_id': course['Utbildningsinformation']['UtbildningUID'], # ett Ladok-ID
      'instance_id': course['Utbildningsinformation']['UtbildningsinstansUID'], # ett La
      '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']['Betygsskal
        # 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'][
      } if 'SenastAttesteradeResultat' in result else None
    } for result in r['ResultatPaUtbildningar']]
  }
```

Part III

A command-line interface

Chapter 15

The base interface

This is the documentation of the command-line interface module (`cli`) of the `ladok3` package, ⟨*cli.py* 535⟩.

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.

15.1 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.

535 ⟨*cli.py* 535⟩≡

```
#!/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 546d⟩

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

⟨functions 536b⟩
⟨command-line interface 536a⟩
```

15.2 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.

536a ⟨*command-line interface* 536a⟩≡ (535)

```
def main():
  """Run the command-line interface for the ladok command"""
  ⟨process command-line options 536c⟩

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

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.

536b ⟨*functions* 536b⟩≡ (535) 538c▷

```
def err(rc, msg):
  print(f"{sys.argv[0]}: error: {msg}", file=sys.stderr)
  sys.exit(rc)

def warn(msg):
  print(f"{sys.argv[0]}: {msg}", file=sys.stderr)
```

15.2.1 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.

536c ⟨*process command-line options* 536c⟩≡ (536a)

```
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 540a⟩
```

```
subp = argp.add_subparsers(
  title="commands",
  dest="command",
  required=True
)
⟨add subparsers to subp 540c⟩
argcomplete.autocomplete(argp)
args = argp.parse_args()
⟨create or restore the LadokSession ls 538a⟩
⟨execute subcommand 537⟩
⟨save LadokSession ls 538b⟩
```

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`.

537 ⟨*execute subcommand* 537⟩≡ (536c)

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

15.3 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.

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

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

should be substituted in the login forms (see documentation of `weblogin`). We use `LADOK_VARS` as credentials, since it contains the credentials.

538a ⟨*create or restore the LadokSession ls* 538a⟩≡ (536c)
```
LADOK_INST, LADOK_VARS = load_credentials(args.config_file)
ls = restore_ladok_session(LADOK_VARS)
if not ls:
  ls = ladok3.LadokSession(LADOK_INST, vars=LADOK_VARS)
```

538b ⟨*save LadokSession ls* 538b⟩≡ (536c)
```
store_ladok_session(ls, LADOK_VARS)
```

15.3.1 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).

538c ⟨*functions* 536b⟩+≡ (535) ◁536b 541b▷
```
def store_ladok_session(ls, credentials):
  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 538d⟩

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

def restore_ladok_session(credentials):
  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 539a⟩
      if pickled_ls:
        return pickle.loads(pickled_ls)

  return None
```

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.

538d ⟨*encrypt pickled ls* 538d⟩≡ (538c)

⟨*set up kdf and derive key from credentials* 539b⟩

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

539a ⟨*decrypt encrypted ls* 539a⟩≡ (538c)
⟨*set up kdf and derive key from credentials* 539b⟩

```
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
```

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

539b ⟨*set up kdf and derive key from credentials* 539b⟩≡ (538d 539a)

```
if len(credentials) < 2:
  raise ValueError(f"|credentials| < 2 is too small")

if isinstance(credentials, dict):
  try:
    salt = credentials["username"]
    passwd = credentials["password"]
  except KeyError:
    credentials = list(credentials.values())
    ⟨get salt and passwd from credentials list 539c⟩
else:
  ⟨get salt and passwd from credentials list 539c⟩

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

539c ⟨*get salt and passwd from credentials list* 539c⟩≡ (539b)

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

15.4 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.

540a ⟨*add global configuration options* 540a⟩≡ (536c)

```
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.")
```

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.

15.5 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.

540b ⟨*login description* 540b⟩≡ (540c)

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

1) 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.

2) 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.

3) 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.)
```

540c ⟨*add subparsers to subp* 540c⟩≡ (536c) 546a▷

```
login_parser = subp.add_parser("login",
```

```
  help="Manage login credentials",
  formatter_class=argparse.RawDescriptionHelpFormatter,
  description=f"""
⟨login description 540b⟩
""")

login_parser.set_defaults(func=update_credentials_in_keyring)
```

15.5.1 Updating the credentials in the keyring

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

541a ⟨*login prompt* 541a⟩≡ (541b)

```
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.
```

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

541b ⟨*functions* 536b⟩+≡ (535) ◁538c 542c▷

```
def update_credentials_in_keyring(ls, args):
  print("""
⟨login prompt 541a⟩
""")
  while True:
    institution = input("Institution: ")
    ⟨check that institution uniquely identifies on SeamlessAccess 542a⟩

  vars = {
    "username": input("Institution username: "),
    "password": getpass.getpass("Institution password: [input is hidden] ")
  }
  ⟨try to log into LADOK to verify credentials or update vars 542b⟩

  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)

  clear_cache(ls, args)
```

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.

542a ⟨*check that institution uniquely identifies on SeamlessAccess* 542a⟩≡ (541b)

```
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
```

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.

542b ⟨*try to log into LADOK to verify credentials or update vars* 542b⟩≡ (541b)

```
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
```

542c ⟨*functions* 536b⟩+≡ (535) ◁541b 544a▷

```
def adjust_vars(vars, form_variables):
  print("""
⟨user instructions to adapt variable names and values 543a⟩
""")
  input("\nPress return to continue.\n")

  ⟨adjust vars using variables from err 543b⟩
```

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.

543a ⟨*user instructions to adapt variable names and values* 543a⟩≡ (542c)

```
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.
```

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.

543b ⟨*adjust vars using variables from err* 543b⟩≡ (542c)

```
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
```

15.5.2 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.)

544a ⟨*functions* 536b⟩+≡ (535) ◁542c 546c▷

```
def load_credentials(filename="config.json"):
  """Load credentials from environment or file named filename"""

  ⟨fetch vars from keyring 544b⟩
  ⟨fetch username and password from keyring 544c⟩
  ⟨fetch institution from environment 544d⟩
  ⟨fetch username and password from environment 545a⟩
  ⟨fetch vars from environment 545b⟩
  ⟨fetch vars from config file 545c⟩

  return None, None
```

First we try the newest format. We try to fetch the institution and vars from the keyring.

544b ⟨*fetch vars from keyring* 544b⟩≡ (544a)

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

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

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

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

544c ⟨*fetch username and password from keyring* 544c⟩≡ (544a)

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

Next 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.

544d ⟨*fetch institution from environment* 544d⟩≡ (544a)

```
try:
```

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

545a ⟨*fetch username and password from environment* 545a⟩≡ (544a)

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

If we couldn't read the old `LADOK_USER` and `LADOK_PASS`, we try to read the `vars` from the environment using `LADOK_VARS`.

545b ⟨*fetch vars from environment* 545b⟩≡ (544a)

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

    vars = {}
    for key in vars_keys.split(":"):
      vars[key] = os.environ[key]

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

If none of the above worked, the last resort is to try to read the configuration file. We pop the institution from the configuration file (a dictionary), because then the remaining entries will be used as `vars`.

545c ⟨*fetch vars from config file* 545c⟩≡ (544a)

```
  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
```

15.6 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.

546a ⟨*add subparsers to subp* 540c⟩+≡ (536c) ◁540c 546e▷
```
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 546b⟩
```

15.6.1 Clear the cache

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

546b ⟨*add subcommands to cache command* 546b⟩≡ (546a)
```
cache_clear = cache_subp.add_parser("clear",
  help="Clear the cache",
  description="Clears everything from the cache"
)
cache_clear.set_defaults(func=clear_cache)
```

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.

546c ⟨*functions* 536b⟩+≡ (535) ◁544a
```
def clear_cache(ls, args):
  try:
    os.remove(dirs.user_cache_dir + "/LadokSession")
  except FileNotFoundError as err:
    pass

  sys.exit(0)
```

15.7 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* 540c⟩. 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.

546d ⟨*modules* 546d⟩≡ (535) 547a▷
```
import ladok3.data
```

546e ⟨*add subparsers to subp* 540c⟩+≡ (536c) ◁546a 547b▷
```
ladok3.data.add_command_options(subp)
```

We add the `report` command.

547a ⟨*modules* 546d⟩+≡ (535) ◁546d 547c▷
```
import ladok3.report
```

547b ⟨*add subparsers to subp* 540c⟩+≡ (536c) ◁546e 547d▷
```
ladok3.report.add_command_options(subp)
```

We add the `student` command.

547c ⟨*modules* 546d⟩+≡ (535) ◁547a
```
import ladok3.student
```

547d ⟨*add subparsers to subp* 540c⟩+≡ (536c) ◁547b
```
ladok3.student.add_command_options(subp)
```

Chapter 16

The `data` 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* 549a⟩) to extract the necessary data from LADOK (Section 16.1). This is a subcommand for the `ladok` command-line interface. It can be used like this:

```
1 ladok data 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,
- normalized time.

16.1 The data 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.

549a ⟨*data.py* 549a⟩≡

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

⟨functions 550b⟩

def add_command_options(parser):
  ⟨add data parser to parser 549b⟩
  ⟨add data command arguments to data parser 550a⟩

def command(ladok, args):
  ⟨produce data about course specified in args 549c⟩
```

16.1.1 Setting up the data command options

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

549b ⟨*add data parser to parser* 549b⟩≡ (549a)

```
data_parser = parser.add_parser("data",
  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)
```

16.2 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.

549c ⟨*produce data about course specified in args* 549c⟩≡ (549a)

```
data_writer = csv.writer(sys.stdout, delimiter=args.delimiter)
course_rounds = filter_rounds(
  ladok.search_course_rounds(code=args.course_code),
  args.rounds)

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]
      )
```

We must take a course code and a delimiter as arguments.

550a ⟨*add data command arguments to data parser* 550a⟩≡ (549a) 550c▷

```
  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.")
```

We filter the rounds.

550b ⟨*functions* 550b⟩≡ (549a) 550d▷

```
  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
    )
```

We need a list of desired rounds.

550c ⟨*add data command arguments to data parser* 550a⟩+≡ (549a) ◁550a 552d▷

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

16.3 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`.

550d ⟨*functions* 550b⟩+≡ (549a) ◁550b 551c▷

```
  def extract_data_for_round(ladok, course_round, args):
    ⟨compute start and length of the course 551a⟩
    ⟨get the results for the course round 551b⟩

    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* 553c⟩

```
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 552c⟩

  yield student, component, grade, normalized_date
```

16.3.1 Get round data

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

551a ⟨*compute start and length of the course* 551a⟩≡ (550d)

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

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.

551b ⟨*get the results for the course round* 551b⟩≡ (550d)

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

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.

551c ⟨*functions* 550b⟩+≡ (549a) ◁550d 551d▷

```
def filter_student_results(student, results):
  return list(filter(
    lambda x: x["Student"]["Uid"] == student.ladok_id,
    results))
```

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

551d ⟨*functions* 550b⟩+≡ (549a) ◁551c 553a▷

```
def filter_component_result(component, results):
```

```
for component_result in results:
  ⟨get the component result data 552a⟩
  ⟨check component code in result data 552b⟩
  return result_data

return None
```

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.

552a ⟨*get the component result data* 552a⟩≡ (551d)

```
if "Arbetsunderlag" in component_result:
  result_data = component_result["Arbetsunderlag"]
elif "SenastAttesteradeResultat" in component_result:
  result_data = component_result["SenastAttesteradeResultat"]
else:
  continue
```

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.

552b ⟨*check component code in result data* 552b⟩≡ (551d)

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

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.

552c ⟨*extract grade and normalized date from result data* 552c⟩≡ (550d)

```
if "Betygsgradsobjekt" in result_data:
  grade = result_data["Betygsgradsobjekt"]["Kod"]
  date = datetime.date.fromisoformat(
    result_data["Examinationsdatum"])
  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
```

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

552d ⟨*add data command arguments to data parser* 550a⟩+≡ (549a) ◁550c 553b▷

```
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.")
```

16.3.2 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.

553a ⟨*functions* 550b⟩+≡ (549a) ◁551d 553d▷

```
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
  )
```

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

553b ⟨*add data command arguments to data parser* 550a⟩+≡ (549a) ◁552d

```
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.")
```

16.4 Which students to exclude

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

553c ⟨*determine if student should be included* 553c⟩≡ (550d)

```
if not should_include(ladok, student, course_round, student_results):
  continue
```

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.

553d ⟨*functions* 550b⟩+≡ (549a) ◁553a 554a▷

```
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
```

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.

554a ⟨*functions* 550b⟩+≡ (549a) ◁553d 554b▷

```
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
```

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

554b ⟨*functions* 550b⟩+≡ (549a) ◁554a

```
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
```

Chapter 17

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].

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 positinoal argument, and in this case we read CSV data from standard input.

17.1 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.

555 ⟨*report.py* 555⟩≡

```
import csv
import datetime
import ladok3
import sys

⟨functions 556b⟩

def add_command_options(parser):
  report_parser = parser.add_parser("report",
    help="Reports course results to LADOK",
    description="Reports course results to LADOK"
  )
```

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

```
    report_parser.set_defaults(func=command)
    ⟨add report command arguments to report parser 556a⟩

  def command(ladok, args):
    ⟨report results depending on args 559⟩
```

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

556a ⟨add report command arguments to report parser 556a⟩≡ (555) 556c▷

```
one_parser = report_parser.add_argument_group(
  "one result as positional args, only date is optional")
⟨add one result group arguments 556d⟩
many_parser = report_parser.add_argument_group(
  "many results read from standard input as CSV, columns: "
  "course, component, student, grade, date.")
⟨add many results group arguments 558b⟩
```

17.2 Report the results

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

556b ⟨functions 556b⟩≡ (555)

```
def report_one_result(ladok, args):
  ⟨report results given in args 557c⟩

def report_many_results(ladok, args):
  ⟨report results given in stdin 558a⟩
```

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.

556c ⟨add report command arguments to report parser 556a⟩+≡ (555) ◁556a

```
report_parser.add_argument("-f", "-finalize",
  help="Finalize the grade (mark as ready/klarmarkera) for examiner to attest",
  action="store_true",
  default=False
)
```

17.3 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.

556d ⟨add one result group arguments 556d⟩≡ (556a) 557b▷

```
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"
  )

  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)"
  )
```

We must make them optional like this to make it work with out second alternative, so we must check ourselves that we got the arguments.

557a ⟨*check that we got all positional arguments* 557a⟩≡ (557c)

```
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)
```

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.

557b ⟨*add one result group arguments* 556d⟩+≡ (556a) ◁556d

```
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()
)
```

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

557c ⟨*report results given in args* 557c⟩≡ (556b)

```
⟨check that we got all positional arguments 557a⟩
try:
  student = ladok.get_student(args.student_id)
  course = student.courses(code=args.course_code)[0]
  result = course.results(component=args.component_code)[0]
  result.set_grade(args.grade, args.date)
  if args.finalize:
    result.finalize()
except Exception as err:
  try:
    print(f"{student}: {err}")
  except ValueError as verr:
    print(f"{verr}: {args.student_id}: {err}")
```

This means that we need the following command-line arguments. The option `args.finalize` is already set above, so we don't need to add that one here.

17.4 Report many results given in standard input

We want to read CSV data from standard input.

558a ⟨*report results given in stdin* 558a⟩≡ (556b)
```
data_reader = csv.reader(sys.stdin, delimiter=args.delimiter)
for course_code, component_code, student_id, grade, date in data_reader:
  ⟨report a result read from stdin 558d⟩
```

We need to add an argument for the delimiter.

558b ⟨*add many results group arguments* 558b⟩≡ (556a) 558c▷
```
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.")
```

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

558c ⟨*add many results group arguments* 558b⟩+≡ (556a) ◁558b
```
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.")
```

When we actually report a result, this is similar to how we did it above. The difference is that we've read the variables from the CSV data in `stdin` instead of from `args`.

558d ⟨*report a result read from stdin* 558d⟩≡ (558a)
```
try:
  student = ladok.get_student(student_id)

  try:
    course = student.courses(code=course_code)[0]
  except IndexError:
    raise Exception(f"{course_code}: no such course.")

  try:
    component = course.results(component=component_code)[0]
  except IndexError:
    raise Exception(f"{course_code} has no component {component_code}.")

  if not component.attested and component.grade != grade:
    component.set_grade(grade, date)
    component.finalize()
    if args.verbose:
      print(f"{course_code} {student}: reported "
        f"{component.component} = {component.grade} ({date}).")
  elif component.grade != grade:
    print(f"{course_code} {student}: attested {component.component} "
      f"result {component.grade} ({component.date}) "
```

```
      f"is different from {grade} ({date}).")
  except Exception as err:
    try:
      print(f"{course_code} {component_code}={grade} ({date}) {student}: {err}",
        file=sys.stderr)
    except ValueError as verr:
      print(f"{verr}: "
        f"{course_code} {component_code}={grade} ({date}) {student_id}: {err}",
        file=sys.stderr)
```

17.5 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.

559 ⟨*report results depending on args* 559⟩≡ (555)

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

Chapter 18

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]"
```

18.1 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.

560 ⟨*student.py* 560⟩≡

```
import csv
import ladok3.cli

⟨functions 561d⟩

def add_command_options(parser):
  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 561a⟩

def command(ladok, args):
  ⟨print info depending on args 561c⟩
```

18.2 The student command options

18.2.1 The student identifier

As mentioned above, we want to take one positional argument, the student identifier. Since our API (Section 6.1) can handle both personnummer and LADOK ID transparently, we don't have to care about that either.

561a ⟨*add student command arguments to student parser* 561a⟩≡ (560) 561b▷

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

18.2.2 An optional course identifier

We also want an option for the course code.

561b ⟨*add student command arguments to student parser* 561a⟩+≡ (560) ◁561a

```
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."
)
```

18.3 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.

561c ⟨*print info depending on args* 561c⟩≡ (560)

```
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)

if args.course:
  print_course_data(student, args.course)
```

18.3.1 Printing personal student data

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

561d ⟨*functions* 561d⟩≡ (560) 562▷

```
def print_student_data(student):
  """Prints the student data, all attributes, to stdout."""
```

```
    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}")
```

18.3.2 Printing student's course data

To print the student's course data, we simply filter the courses on the option that the user supplies.

562 ⟨*functions* 561d⟩+≡ (560) ◁561d

```
  def print_course_data(student, course):
    """Prints the courses"""
    print("Courses:")
    for course in student.courses(courde_code=course):
      print(f"- {course}")
```

Part IV

Other example applications

Chapter 19

Transfer results from KTH Canvas to LADOK

Here we provide an example program `canvas2ladok.py` which exports results from KTH Canvas to LADOK for the introductory programming course prgi (DD1315). You can find an up-to-date version of this chapter at

`https://github.com/dbosk/intropy/tree/master/adm/reporting`.

19.1 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 prgi (DD1315) course are

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

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:

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

- `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.

19.1.1 Building files

We provide the following files:

- ⟨*canvas2ladok.mk* 565a⟩.
- ⟨*Dockerfile* 565b⟩,
- ⟨*canvas2ladok.py* 566⟩,

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

565a ⟨*canvas2ladok.mk* 565a⟩≡

```
.PHONY: all
all: canvas2ladok.py prgi2ladok

.PHONY: prgi2ladok
prgi2ladok: canvas2ladok.py Dockerfile
  docker build -t prgi2ladok .

Dockerfile: canvas2ladok.nw
  ${NOTANGLE}

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

.PHONY: distclean
distclean:
  -docker image rm prgi2ladok
```

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

565b ⟨*Dockerfile* 565b⟩≡

```
FROM dbosk/ladok3

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

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

19.2 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.

566 ⟨*canvas2ladok.py* 566⟩≡

```
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.kth.LadokSession(
        LOGIN, 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 568a⟩
⟨functions 567a⟩

def main():
  ⟨main body 567d⟩

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

19.3 Getting the results out of Canvas

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

567a ⟨*functions* 567a⟩≡ (566) 567b▷

```
@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
```

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

567b ⟨*functions* 567a⟩+≡ (566) ◁567a 567c▷

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

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.

567c ⟨*functions* 567a⟩+≡ (566) ◁567b 567e▷

```
def students_results(course, component):
  ⟨produce results for a component 570⟩
```

We cover the details in Section 19.6, once we've covered what LADOK needs in Section 19.5.

19.4 The main body

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

567d ⟨*main body* 567d⟩≡ (566)

```
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)
```

19.5 Putting the results into LADOK

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

567e ⟨*functions* 567a⟩+≡ (566) ◁567c 568c▷

```
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}")
```

19.6 Producing the list of results

We need the result to have the following data:

568a ⟨*classes* 568a⟩≡ (566) 568b▷

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

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

19.6.1 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.

568b ⟨*classes* 568a⟩+≡ (566) ◁568a

```
Grade = collections.namedtuple("Grade", ["grade", "date"])
```

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.

568c ⟨*functions* 567a⟩+≡ (566) ◁567e 569a▷

```
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
```

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.

569a ⟨*functions* 567a⟩+≡ (566) ◁568c 569b▷

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

19.6.2 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.

569b ⟨*functions* 567a⟩+≡ (566) ◁569a

```
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)
```

19.6.3 Convert to LADOK result form

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

570 ⟨*produce results for a component* 570⟩≡ (567c)

```
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
```