OPEN EDUCATION API
The open standard for sharing educational data
SURF is the collaborative ICT organisation for Dutch education and research.
Serving over 1 million users
SURF, COULD YOU HELP US?
The problem....
We still have data silos

- Educational data is still mostly stuck in silos.
- Hard to move data in and out of systems.
- Lots of extra clerical work that educators and administrators have to do.

This is mostly because educational apps and software do not, as a rule, talk to one another.
The Open Education API project

“To make educational data available in a standardized, safe and user friendly way”
What is (open) Educational Data?

Metadata about educational institute

or

Open Educational Resources (OER)

or

Administrative data that is released by educational systems

https://www.flickr.com/photos/patrick_dockens/12058032686
Open Onderwijs API
The open standard for sharing education data
WHAT IS STANDARDIZED?

https://www.flickr.com/photos/bensonkua/1533348806/
What is standardized?

**Syntax**
The description of the API REST endpoints.
The aim of this is that educational institutions that provide educational data through an API will do this according to the Open Education API.

**Dataformat**
The output of the API, the JSON code.
The objective of this is that applications know which output can come, so that e.g. a mobile app works with the OOAPI of all institutions that apply and offer it.

**Semantics**
Analysis of the concepts and modeling of the databases that are on the nomination to be unlocked.
Check whether they fit in with the formal standardized concepts and OBK modeling.
Also check whether they appear or should occur in the HORA data dictionary.

https://github.com/open-education-api/specification
The OOAPI 2.1 specification

The Open Education API currently supports the following data types:

- Course information: /courses
- News: /newsfeeds and /newsitems
- Users: /persons
- Educational: /faculties, /educational-departments, /educational-plans, /course-groups
- Timetables: /schedules
- Study progress: /courseresults
- Exam results: /testresults
- Buildings: /buildings
- Available workstations: /rooms

Specification:  [https://github.com/open-education-api/specification](https://github.com/open-education-api/specification)
Documentation: [https://rawgit.com/open-education-api/specification/v2/docs.html](https://rawgit.com/open-education-api/specification/v2/docs.html)
The upcoming OOAPI 3.0 specification

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- Available workstations: /rooms

Align with OpenAPI 3.0
Add notification endpoints
Add groups and group roles definitions
Add identifiers for levels and room types
Bring back certain POSTS calls
Support multilingual responses
GOVERNANCE

https://www.flickr.com/photos/internationaltransportforum/34886453912/
https://github.com/open-education-api specification/blob/v2/Governance.md
the standard for education data

Using your phone to find the nearest unoccupied computer? Or enroll in a course in a few clicks? Or quickly check your timetable or your marks? The Open Education API will help you do this.

Open Onderwijs API
The open standard for sharing education data

POWERED BY SURF NET

OPEN EDUCATION API
SURF.net is working with some higher education institutions to define a standard API: the Open Education API. An API is a set of definitions which help software programs communicate with each other. It can be used for different types of systems, for example for computer systems which exchange electronic data.

English translation of the website available now
Due to overwhelming demand, and to be prepared for TNC2016 we have translated th...

Welcome to the Open Education API website
There is an increasing interest in the Open Education API. On October 1, 2015 we...

Best practice UvA: the Mijn-UvA app utilizes data from different sources using the Open Education API
The 'MijnUvA'-app (MyUvA App) combines data from the electronic learning environ...

Mark de Jong shares experiences with the Open Education API
October 1, 2015, 15:00 - SURF
Open Education API / Open Onderwijs API

Code repository for the open specification 'Open Education API' (Open Onderwijs API - OOAPI)

Utrecht, Netherlands  🌐 https://openonderwijsapi.nl  📧 info@openonderwijsapi.nl

Repositories 11  People 18  Teams 4  Projects 1  ⏯️ Settings

Find a repository...  Type: All  Language: All

**specification**

OpenAPI (fka Swagger) specification for the Open Education API.

- HTML  🌐  🌐  🌐  Updated on Sep 10

**sdk-ios**

iOS SDK for the Open Education API.

- Objective-C  Updated on Nov 11, 2016

**sdk-java**

Java SDK for the Open Education API.

https://github.com/open-education-api/specification
FUTURE PLANS

Photo by Eddy Lackmann on Unsplash

https://www.flickr.com/photos/gsfc/22150617080/
SURF Education Innovation project 2015-2018

2013-2014

Open Education Data
V0.5, V0.9

2015-2018

Open Education API
V1.0, V2.0, V2.1, V3.0

2019-....

Open Education API
V3.1, ....

edustandaard
OOAPI Roadmap

- Finalize the OOAPI V3.0 specification
- Prepare Governance for transition to Edustandaard
- Align OOAPI with IMS EDU-API
- Collect issues for future releases
- Describe the data items of the OOAPI specification
- Design a better mechanism for updating the overview of institution OOAPI endpoints
- Define guidelines for authentication and authorisation for the implementation of the OOAPI
ORGANISING FLEXIBILITY
Organising flexibility

The student population is becoming increasingly diverse, and every student has their own preferences and wishes. Consequently, student-oriented education requires flexibility. SURF is developing tools for student mobility and educational logistics that institutions can use to make their education more flexible and offer students more choices.

Offering students choices

SURF wants to help institutions to organise their education in a more flexible way. Our starting point is the idea that institutions can offer students more freedom of choice. This requires flexibility in many respects: in creating the curriculum, in facilitating student mobility within and between the institutions, and in the way education is organised.

Student mobility

Students have the most freedom of choice when they can create their curriculum, following courses at different educational institutions. This is not easy to achieve, as there are obstacles in educational logistics, legislation, privacy issues and the complex, interrelated processes. The availability and opportunities for mobility will be tested with a number of institutions.

Open badges and micro-credentialing

Micro-credentialing means breaking down the certification of education courses into units.
Goedemorgen Jocelyn!
De volgende activiteit begint pas over twee uur. Tijd voor ☕️?

Nederlandse geschiedenis (NE3044)
10.45 - 12.30
HZ University | HZ campus | Gebouw F3
| Lokaal 2.04 | Docent: Dr. R.F. de Vries

College

Europees recht (FS2034)
13.45 - 15.30
De Creatieve Universiteit | Campus A | Gebouw 2 |
| Zaal 0.02 | Docent: Prof. M. Klaassen

College

Agenda voor volgende week
12 - 16 november
Al jouw recente resultaten
Oudere resultaten? Klik dan op 'laad meer'.

Economie & Recht (DE1087)
10 oktober 2018 - tentamen
6.7

Kunstgeschiedenis (GF1055)
10 oktober 2018 - deeltentamen
8.2

Introductie Medicijnen (DE1087)
17 september 2018 - project
7.1

Maatschappijrecht (WD2953)
10 september 2018 - deeltentamen
4.9

Meer resultaten laden

Jouw voortgang bij HZ
Klik op een semester voor meer details.

2018/2019 - Semester 1
2.8 van 30 ECTS gehaald

2017/2018 - Semester 2
15 van 30 ECTS gehaald

2017/2018 - Semester 1
26 van 30 ECTS gehaald

2016/2017 - Semester 2
30 van 30 ECTS gehaald

2016/2017 - Semester 1
30 van 30 ECTS gehaald

2017/2018 - Semester 2
15 van 30 ECTS gehaald

BIV / AO 3
2.75 van 2.75 ECTS
6.8

Financieel Management
0 van 4 ECTS
3.9

Externe verslaggeving
4 van 5 ECTS
8.3

Financiële rekenkunde
0 van 5 ECTS
-

Global strategic management
0 van 5 ECTS
-

Monetaire en internationale economie
5 van 5 ECTS
7.0

SLC S & AvEM
3.25 van 3.25 ECTS
7.4
OOAPI vs EDU-API

- Student centric
- Tends towards OneRoster
- Focus on courses and schedules

- Machine to machine
- Tends towards LIS
- First focus on Persons and Demographics
OOAPI vs EDU-API

- Student centric
  - Ends towards OneRoster
  - Focus on courses and schedules

- Machine to machine
  - Ends towards LIS
  - First focus on persons and demographics

Thanks, but are we at least on the same path?

“You guys are miles ahead”
OPEN EDUCATION API: AN OPEN STANDARD FOR MAKING EDUCATIONAL DATA AVAILABLE

Frans Ward
E-mail: frans.ward@surfnet.nl

https://openonderwijsapi.nl/en/
https://github.com/open-education-api/specification

Driving innovation together