

Software architecture

1. Interface specifications

This document outlines the specifications of the back-end application. The back-end application has a RESTful interface with which the front-end communicates with.

The data format used will be JSON.

At the beginning of the project we choose that when communicated with the backend the least amount of endpoints should be called. That's why a lot of custom object interfaces can be found in front end.

The JSON objects can be found in the json_objects.ods file in the 60software_architecture\backend_interface directory.

Complete overview of back-end endpoints.	
Uri path with resource	description
/curricula	Returns an array of curriculum
/curriculum/:curriculum_id/module/:module_code	Returns a module object
/curriculum/:curriculum_id/semesters	Returns an array of semester
/curriculum/:curriculum_id/semester/:semester_number	Returns a complete_semester object
/qualications	Returns a filter_qualifications object
curriculum/:curriculum_id/architecturallayer/:id/activity/:id	returns a complete qualications overview semester object
/module/:module_code	Accepts a editable_module_input or returns an editable_module_output.
/curriculum/:curriculum_id/module/:module_code/pdf	returns a modules PDF

2. Endpoint definitions

This section describes the urls more specically with functionality, the JSON format and HTTP codes. The dataobjects are described in json objects.pdf in this repository.

Get data for editing module	
URL	/module/:module_code
Method	GET
Returns	Returns a filled editable_module_output
Returns code	200 OK 404 NOT FOUND

Post editing module	
URL	/module/:module_code
Method	POST
Returns	Gets a filled editable_module_input
Returns code	200 OK 404 NOT FOUND

Complete semester	
URL	/curriculum/:curriculum_id/semester/:semester_number
Method	GET
Returns	Returns a filled complete_semester object
Returns code	200 OK 404 NOT FOUND

Filter of qualifications	
URL	curriculum/:curriculum_id/architecturallayer/:id/activity/:id
Method	GET
Returns	Returns a filter_qualifications object
Returns code	200 OK 404 NOT FOUND

complete module	
URL	/curriculum/:curriculum id/module/:module_code
Method	GET
Returns	Returns a filled_module object
Returns code	200 OK 404 NOT FOUND

Semesters of a curriculum	
URL	/curriculum/:curriculum id/semesters
Method	GET
Returns	Returns an array of semester objects
Returns code	200 OK 404 NOT FOUND

Curricula of a student program	
URL	/curricula
Method	GET
Returns	Returns an array of curriculum objects
Returns code	200 OK 404 NOT FOUND