

# TDP003 Projekt: Egna datormiljön

## System Documentation

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## 1 Revision history

Ver.	Revision description	Date
0.1	Draft of draft	12/10
1.0	All text content added	13/10
1.1	All diagrams added	13/10

## 2 Data layer

The data layer's functions works according to the specifications found at [https://www.ida.liu.se/~TDP003/current/portfolio-api\\_python3/](https://www.ida.liu.se/~TDP003/current/portfolio-api_python3/).

## 3 Presentation layer

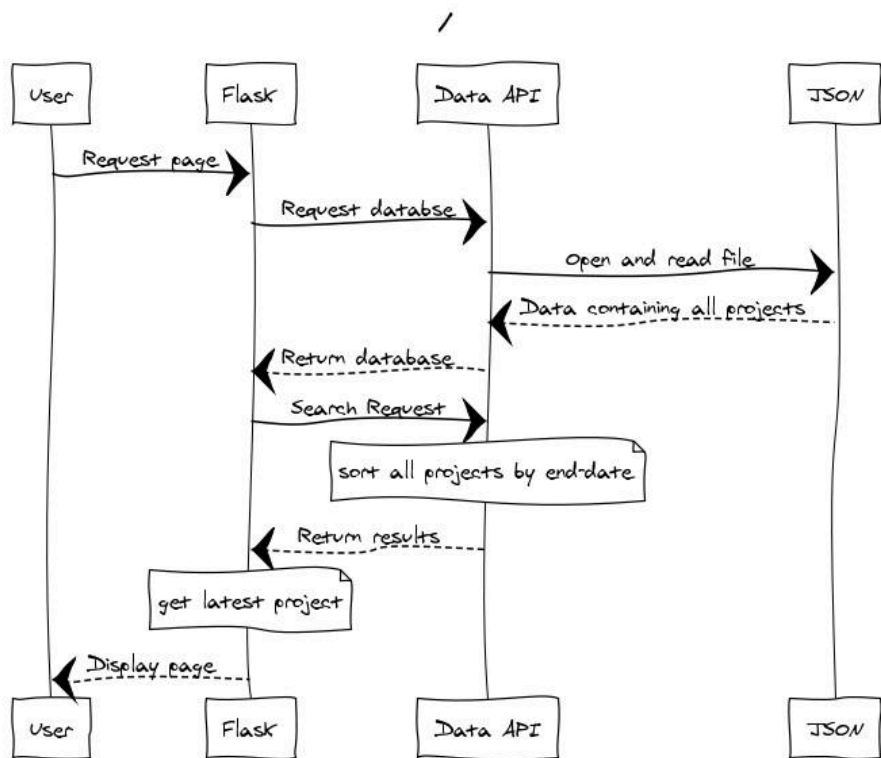
The presentation layer imports the data layer as <data>.

### 3.1 index()

Calls `data.load()` to load the database. Then calls `data.search()` with the <sort\_by> argument set to <end\_date> and cherrypicks the first item, i.e. the latest project. Then renders `index.html` with that project.

Renders:

**index.html** with latest project.



www.websequencediagrams.com

### 3.2 list()

Calls `data.load` to load the database. If there are GET-arguments, calls `data.search()` with the GET-arguments. Then renders `list.html` with all projects returned by `data.search()`, or with all projects as loaded by `data.load()` if there were no GET-arguments.

GET-arguments:

**sort\_by (string)** The name of the field to sort by. If not set, `<project_id>` is used.

**sort\_order (string)** The order to sort in. `<asc>` for ascending, `<desc>` for descending. If not set, `<desc>` is used.

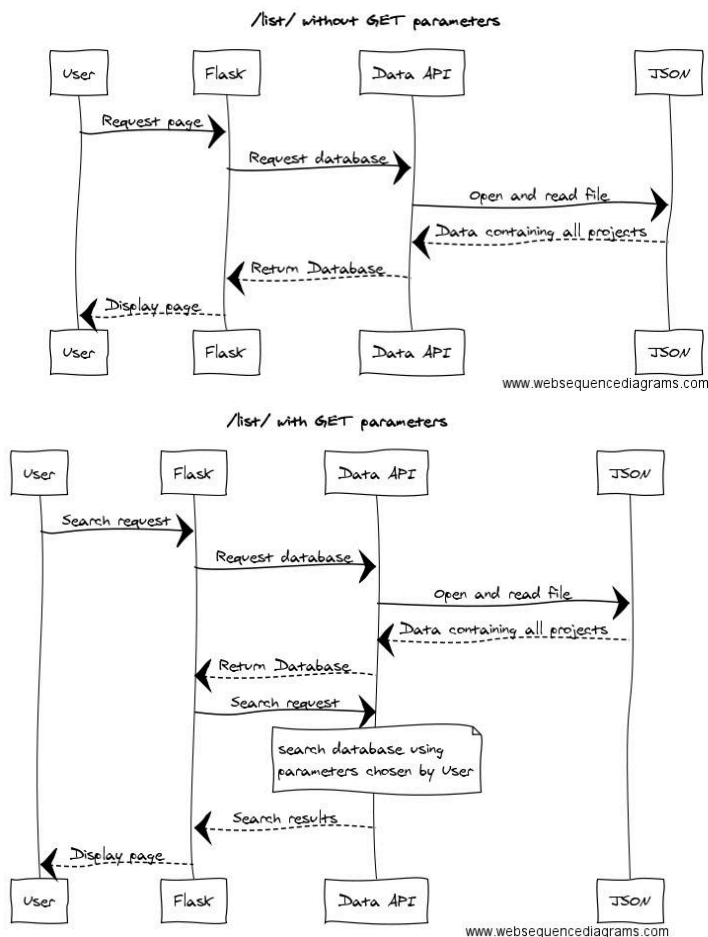
**techniques (list)** List of techniques that projects must have to be returned. If not set, no restrictions are applied.

**search (string)** Free text search string. If not set, an empty string which always matches are used.

**search\_fields (list)** The fields to search for search in. If not set, all fields are searched.

Renders:

**list.html** with list of projects.



### 3.3 project(id)

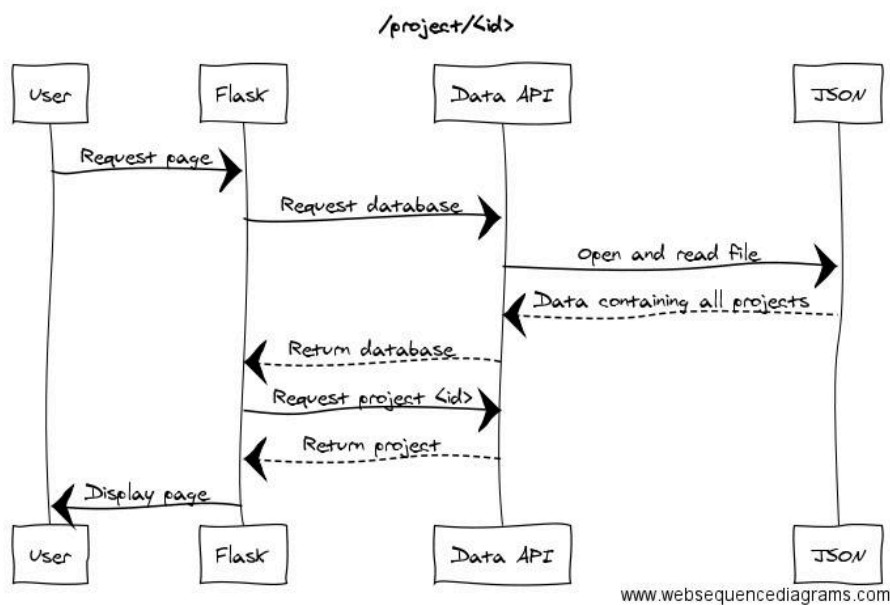
Calls `data.load` to load the database. Then calls `data.get_project()` with the `<id>` argument set to the received `<id>` argument. Then renders `project.html` with the project returned, or abort with a 404-error if None was returned.

Arguments:

**id (string)** ID of the project to fetch.

Renders:

**project.html** with a project, or aborts with a 404-error if no project was found.

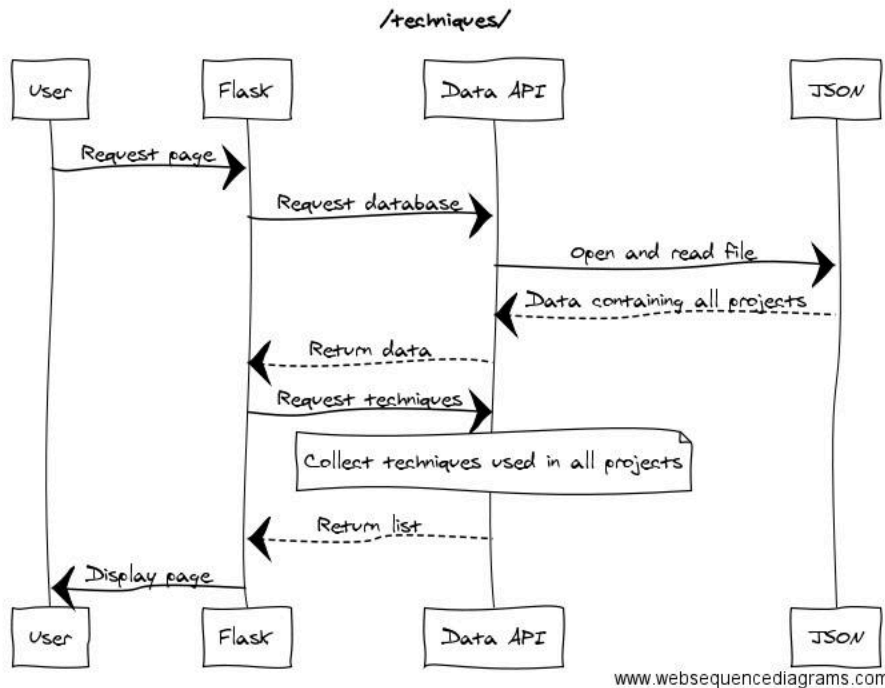


### 3.4 techniques()

Calls `data.load` to load the database. Then calls `data.get_technique_stats()` to get a dictionary of techniques and all projects using each technique. Then renders `techniques.html` with the dictionary that dictionary.

Renders:

**techniques.html** with a dictionary consisting of techniques and all projects using each technique.



### 3.5 page\_not\_found()

Renders a custom 404-page.

Renders:

`error.html` with 404-message.

### 3.6 server\_error()

Renders a custom 500-page.

Renders:

`error.html` with 500-message.