

- Was created Maven project, which can be build in one jar file.
- REST architecture was used.
- All data is stored permanently. CRUD functionality was partially implemented, because in this task we don't need delete any data.
- Unit tests with mocks were made for services.
- As a Database was used PostgreSQL.
- Spring-boot application was dockerized. All that we need can be found in /scr/main/docker

The app was made according to the format of my university, and a little simplified. I didn't use the exact directions of the faculty. At the university where I attend, a student enrolls in a department, chooses a major, and is given a list of subjects he or she must take in any order to earn a degree. In the future, the application can be expanded and improved by adding a different display and functionality.

To initialize the database, if it is empty, you just need to go to <http://localhost:8080>. Please don't look at the file Controller.java, because it was used only for filling the database with data.

The main difficulties I had were the finalization of the application, since this was my first time doing it, and the loop when outputting data to json format.

To make it easier to display the information, I display all the data in String.