

Test task for Java internship

Create a console application for registering university students.

The university has different faculties. Each faculty has a set of specialties. Each specialty has a set of groups studying in it.

*It is necessary to store the following information about the **university**:*

- University name
- University address
- Name of faculties (unique)

*Please store the following information about **faculties**:*

- Faculty name (unique)
- Name of specialties (unique)

*Please store the following information about groups at the **university**:*

- Group name (unique)
- Specialty
- Faculty name

*It is necessary to store the following information about students at the **university**:*

- Student name and last name
- Contact telephone number
- Group name

*Implement such **functionality**:*

- Creation of the university
- Adding and removing faculties
- Adding and removing groups
- Adding and Removing Students
- Reports

*Reports for **implementation**:*

- Displaying brief information about the university
- Display of complete information about the university (university data, faculty names, specialty names, group names, student information)
- Display of all specialties of a particular faculty. The name of the faculty is entered by the user
- Display of all groups of a particular faculty. The name of the faculty is entered by the user
- Display of all students of a particular group. The group name is entered by the user

Depending on the user's choice, reports should be displayed on the screen or send to a file.

The application must be able to download and save all application data to a file.

Proper use of design patterns and SOLID principles would be a plus when evaluating your assignment.

Upload the application source code to your GitHub profile and provide a link to it.