

Student App - User Guide

1 How to Launch the App

To launch the Student App, follow the steps below:

1. Environment Compatibility:

- The app was primarily developed and tested on Linux (specifically Ubuntu 22). However, it should also work on Windows or MacOS.
- Maven will manage all the dependencies needed.

2. Obtaining the App:

- You can either download the provided .zip file and extract its contents using the command:
`$ unzip fileName.zip`
- Alternatively, you can clone the Git repository using the command:
`$ git clone git@github.com:bagleir/StudentApp.git`
- Please refrain from pushing any changes to the Git repository.

3. Launching the App:

- Open your terminal and navigate to the "StudentApp" folder that contains the "src" and "file" directories.
- To launch the app using Maven, execute the following command:
`$ mvn clean javafx:run`

2 Manage the Student

The main page of the app consists of a table, a search bar, and several buttons. This section explains how to use the main page to add or remove students. Note that the table at the start of the application already contains a name, John, but it is only an example.

• Removing a Student:

- Locate the student you wish to remove in the table.
- Click the "Remove" button in the corresponding row to remove the student.

• Adding a Student:

- Click the "Add Student" button.
- Enter the student's name, ID, email, and date of birth in the provided input fields.
- Note: The student ID must be unique. If you don't want to search for a free ID, you can enter 0, and the app will automatically assign a unique ID.
- Click the "Add" button to add the student to the system.

• Updating the Table:

- After making any changes, such as adding or removing students, click the "Update Table" button to refresh the table and reflect the modifications.

3 Grade Management

The Student App allows you to manage student grades. Follow the instructions below to view and add grades to students.

- **Viewing and Adding Grades:**
 - Click the "See Grades" button next to a student's name in the table.
 - In the grades window, you can view existing grades for the student.
 - To add a grade, enter a value between 0 and 100 that can have one digit after the decimal point in the input field and click the "Add" button.
 - On this page, you can also generate a report of the current student. This report will contain all the information of the student (Name, Email, ID, Date of birth) but also all its grades.

4 File Management

The app provides convenient file management capabilities for managing students and their information. Here's how to use the file management features.

- **Accessing File Management:**
 - Click the "File Management" button on the main page to open the file management window.
- **Adding a Student and Grades:**
 - Click the first button in the file management window to add a student and their grades.
 - Select a student report file (e.g., "BuiltinJean.txt") or create one yourself.
 - The selected file should contain the student's information and grades in the appropriate format.
 - Note: The "BuiltinJean.txt" file provides an example and follows the right typography. You can also use the report generated by the generated file button mentioned earlier.
 - Ensure that the file follows the required typography, spacing, and comma placement.
- **Adding Multiple Students:**
 - Use the second button in the file management window to add multiple students at once.
 - This option only adds students' information and does not include grades.
 - Provide a file (e.g., "LotsofStudent.txt") with the necessary student information in the correct format.
 - Note: The "LotsofStudent.txt" file provides an example and follows the right typography.
 - Ensure that the file follows the required typography, spacing, and comma placement.
- **Generating Student Reports:**
 - Click the last button in the file management window to generate a comprehensive report of all students.
 - The generated report will contain all student information, including name, email, ID, date of birth.
 - The report file will be saved in the "file" folder.

5 Search

The Student App includes a search feature that allows you to search for specific students based on different criteria.

- **Using the Search Bar:**

- On the main page, use the search bar to search through the student list.
- Click on the "By Name," "By ID," "By Date," or "By Email" buttons to select the search criterion (default is name).
- Type the desired search term in the input field.
- Click the search button to perform the search.
- Note: The search bar uses filters, meaning it displays students whose name, ID, date, or email contains the search term.
- You can reset the table with the update table button.

6 Text-Input

The Student App features a command-line interface for executing commands and receiving alerts or exceptions.

- **Accessing the Command Line Interface:**

- Open your terminal where you have launched the project.
- Use the command-line interface to view LOGGER alerts and exceptions related to the app's functionality.
- The Exception usually appends when your file is not a valid one, and the LOGGER alert is here to describe most of the event, like when you add a student, add a grade, or just open a new page.

- **Adding Students via Command Line:**

- Use the following command to add a student: `add student <studentID> <studentName> <studentDate> <studentEmail>`
- Replace `<studentID>`, `<studentName>`, `<studentDate>`, and `<studentEmail>` with the appropriate values.
- The app will handle the addition of the student and generate a unique ID if you put a 0.
- Note that for the command, you can use uppercase or lowercase: `ADD STUDENT = add student = AdD StudEnT`

- **Adding Grades via Command Line:**

- Use the following command to add a grade: `add grade <studentID> <grade>`
- Replace `<studentID>` with the student's ID and `<grade>` with the desired grade value.

7 Close the App

To close the Student App, you have multiple options:

1. Click the "Close" button located at the bottom of the main page.
2. Use the command-line interface and enter the command `exit`.
3. Force quit the app by pressing `Ctrl + C` in the command-line interface.

Note: All other windows within the app can be closed using the close button or the cross icon in the top-right corner.

By following this user guide, you'll be able to effectively navigate and utilize the features of the Student App for efficient student management and record-keeping.