



Team 11

Jesper Holmström, Daniil Lukin, Egzon Barja

Student Management System

User Manual

16 April 2025

User Manual for Student Management System

Welcome to the **Student Management System**! This program helps you manage student records easily. You can add, update, delete, search, and save student information. Here's how to use it:

Main Menu Options

When you start the program, you'll see a menu with the following options:

1. Add Student

- Add a new student. The program will automatically assign an ID.
- You'll need to enter the student's name, age, and GPA.
- Type **cancel** at any time to go back to the main menu.

2. Update Student

- Update an existing student's information.
- You'll need to enter the student's ID, followed by their new name, age, and GPA.
- Type **cancel** at any time to go back to the main menu.

3. Delete Student

- Delete a student by their **ID** or **name**.
- If you choose to delete by name and multiple students share the same name, the program will list them and ask you to confirm.
- Type **cancel** at any time to go back to the main menu.

4. Display All Students

- View a list of all students in the system.

5. Search Student by ID

- Search for a student using their ID.
- Type **0** to cancel and go back to the main menu.

6. Search Student by Name

- Search for a student by their first or last name.
- Type **cancel** to go back to the main menu.

7. Load Students from File

- Load student data from a CSV file.
- The file should have the following format:

```
ID, Name, Age, GPA
1, John Doe, 20, 3.5
2, Jane Smith, 21, 3.8
```

- Type **cancel** to go back to the main menu.

8. Save Students to File

- Save all student data to a CSV file.
- Type **cancel** to go back to the main menu.

9. Exit

- Exit the program.

Software Architecture Diagram

Below is a simple diagram of how the program is structured:

