Task Description

We would like to develop a web application that maintain a list of Students.
The application should have 2 routes:

- students (default route)
- honor-candidates

The application allows the user to:

1. Navigate between the routes
2. View the list of existing students in the students route. The list should display the following data:
    - Student ID
    - Student First name
    - Student Last Name
    - Student Email
    - Department
    - GPA
2. View a list of Excellent students in the students route below the students list (Students with GPA >=90) sorting by GPA descending order by default. The list should display the following data:
    - Student ID
    - Student First name
    - Student Last Name
    - Student Email
    - Department
    - GPA
3. Add new Student in the students route
4. Update existing Student in the students route
5. View the list of excellent students in the honor-candidates route
display the following data:
    - Student Email
    - Student Department
    - Student GPA
6. Button in the honor-candidates route that will filter the excellent student list to show only the student with the highest GPA from each department.

Your Task:

Your task is to develop a small web application that demonstrates the above requirements. To perform the task you need to :

1. Setup a database table that can store the data. It could be on MySQL or Postgres.
2. Create a Students table with the following fields: ID (Integer, auto-incremental), First name (String), Last Name (String) , Email (String), Department (Enum), GPA (Integer)
3. Create web app that support the following abilities:
    a. Get all students
    b. Update student
    c. Insert student
    d. Sort by any table column
    e. Filter by first name, last name or department.
4. Upload to Github/bitbucket/… or any other source code platforms.

Source code should include all committed code, including client side code, server side code and DB tables creation scripts.

5. Bonus – deploy the web app to any free provider platform.

Requirements

- The server side should be in Java (Using Spring Boot)
- Client side in React