Student Management System

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- **Required Score: 10/10**.
- **All Requirements are completed**. I also add some features to make the system more convenient to use.
- This is a simple student management system that allows you to add, edit, delete and find students. It also allows you to add, edit, delete, find courses and find Student of course. You can also add students to courses, remove students from courses, find students in courses and find scores of students in courses.
- It includes 4 main features: Student, Course, Courses of Student and Score Board. Each feature I will describe in detail below.

I. How to run

1. Clone this project to your computer.
2. Run `databaseInit.sql` in your Oracle database (Here I use Oracle 21c). I will change the password of User `System` to `153255`, so you have problems with this password of User `System` in different projects.
3. Setup `Tomcat 10.1.7` server before running the project.
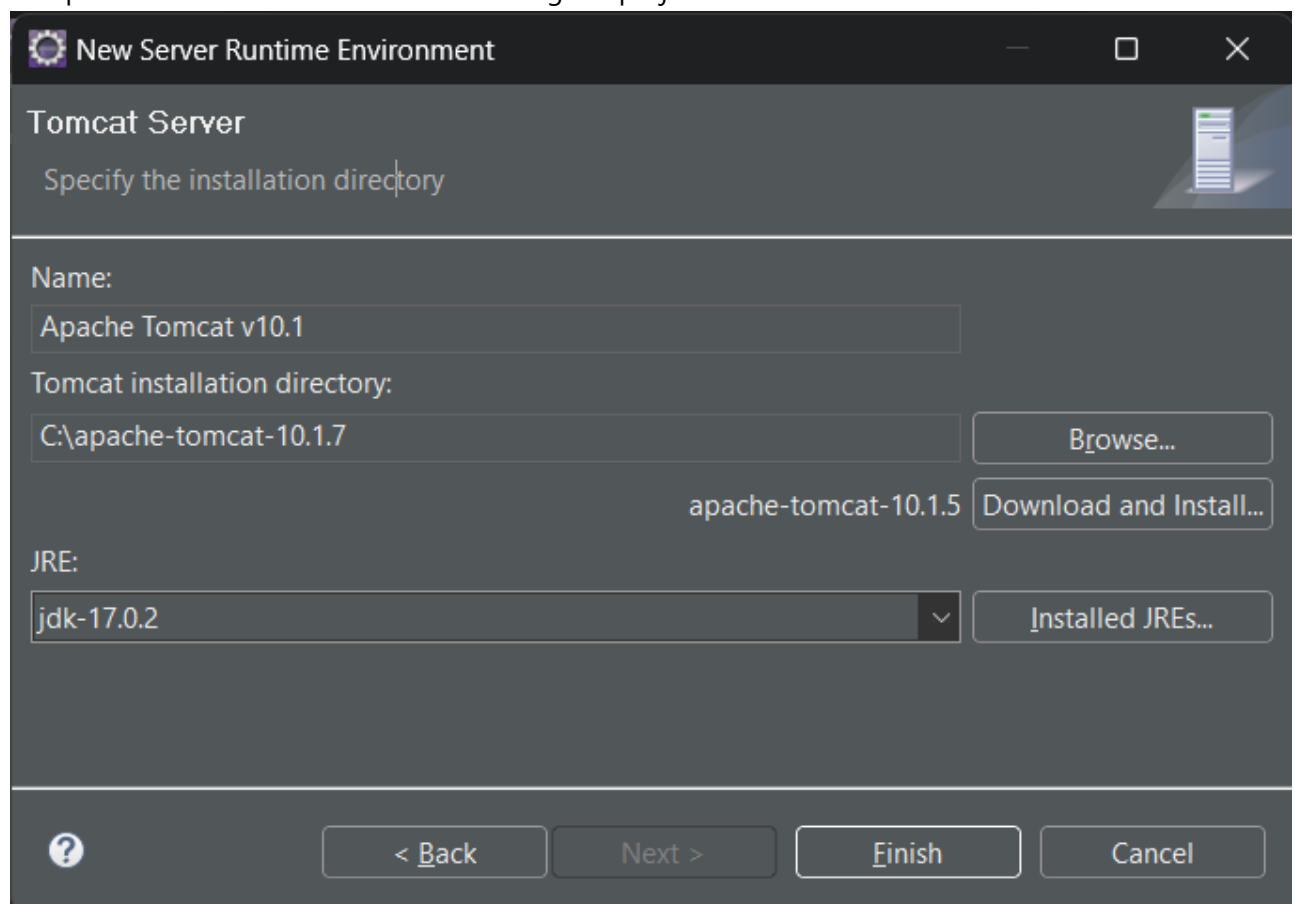
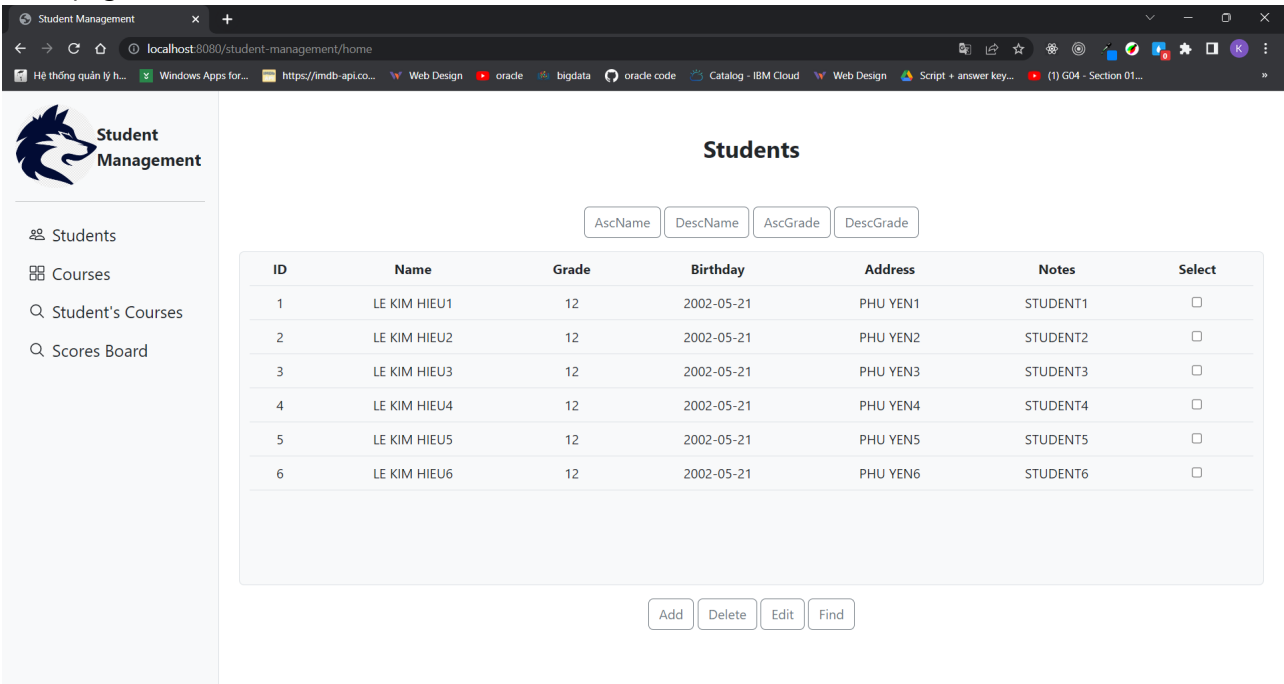4. Open the project in `Eclipse` and run project with this server.
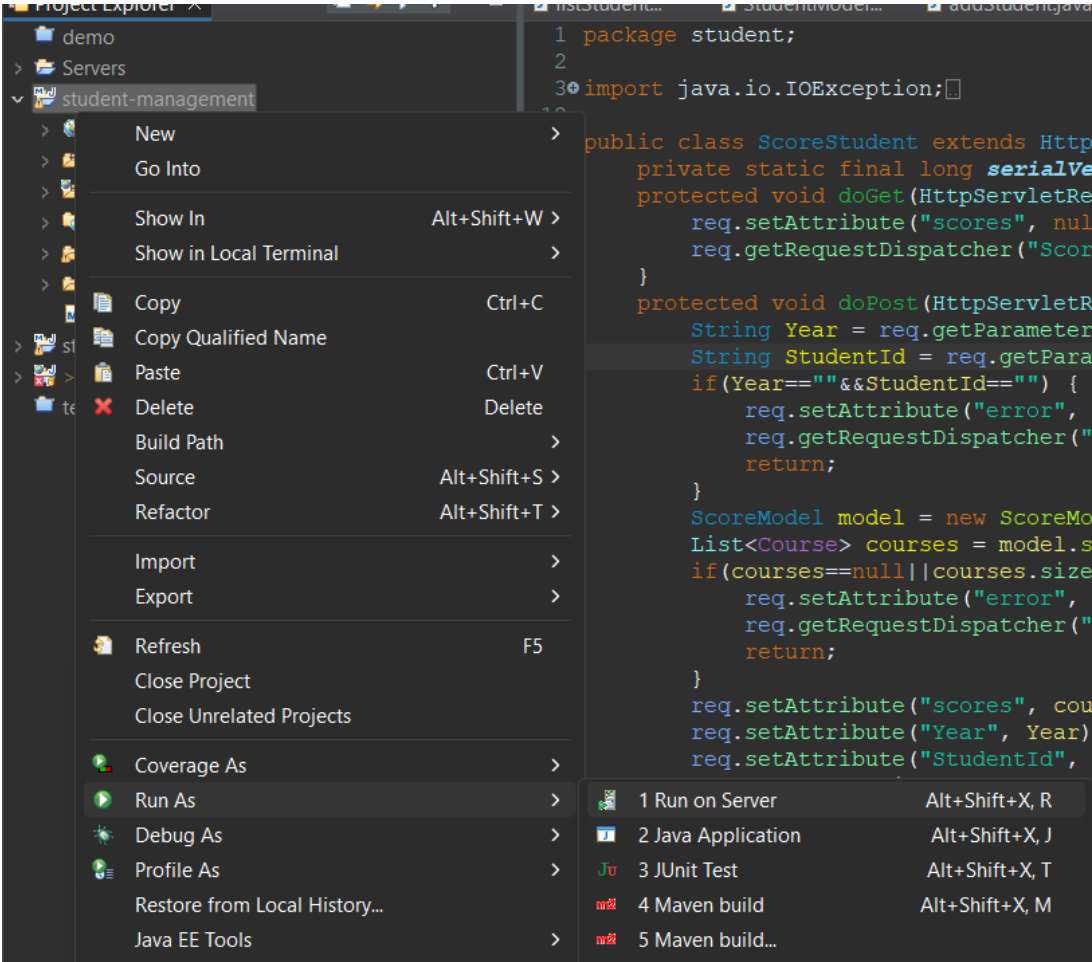
5. Open the browser and enter `http://localhost:8080/StudentManagementSystem/` to use the system.

II. Description features

1. Student

- Main page Student:

- Add student:
  - Fill all fields in the information of the student (Notes field isn't required). Unless error message will appear.
  - Example Add student:

  - Result:

- Edit student:
  - Fill Student Id and Student Name to find the student you want to edit. Unless error message will appear.
  - Example Edit student:

  - Result:

- Delete student:
  - Choose the student you want to delete and click Delete button.

  - Result:

- Sort student by Name:
    - Click on the button AscName or DescName to sort the list of students by name.
    - Ascending:

    - Descending:

- Sort student by Grade:
  - Click on the button AscGrade or DescGrade to sort the list of students by grade.
  - Ascending:

  - Descending:

- Find a student by Name:
  - Fill Student Name to find the student you want to find.
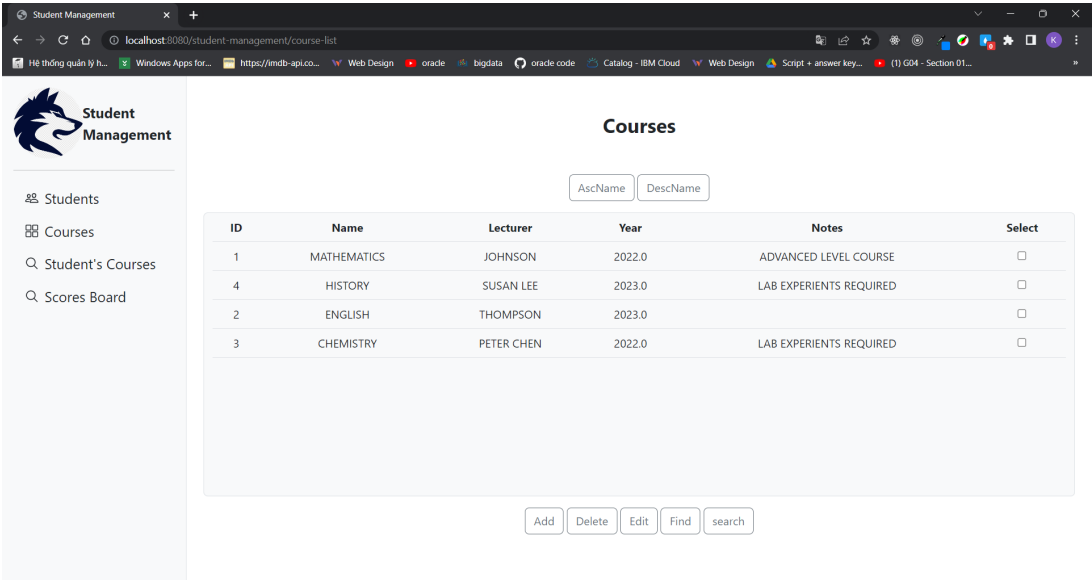 - Example Find student:
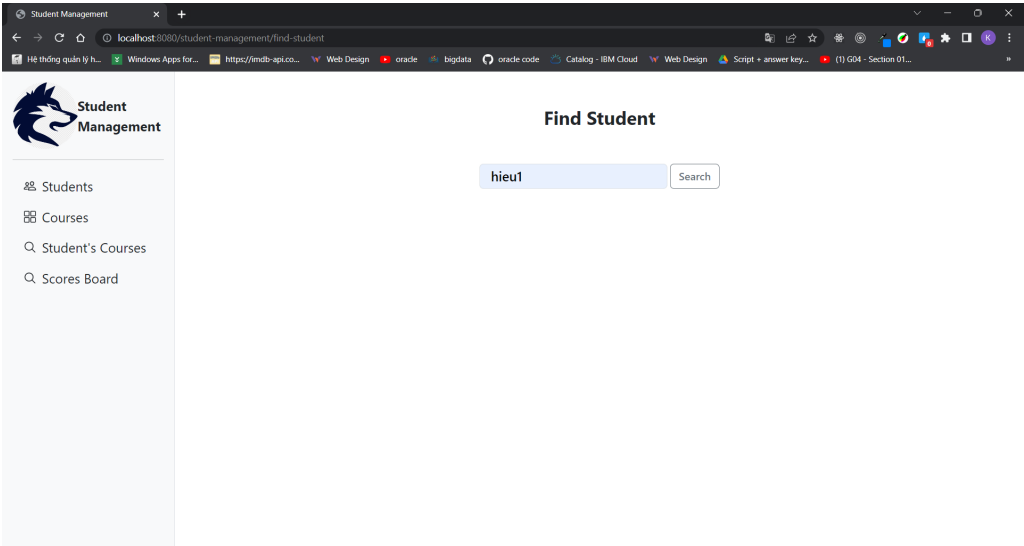
  - Result:
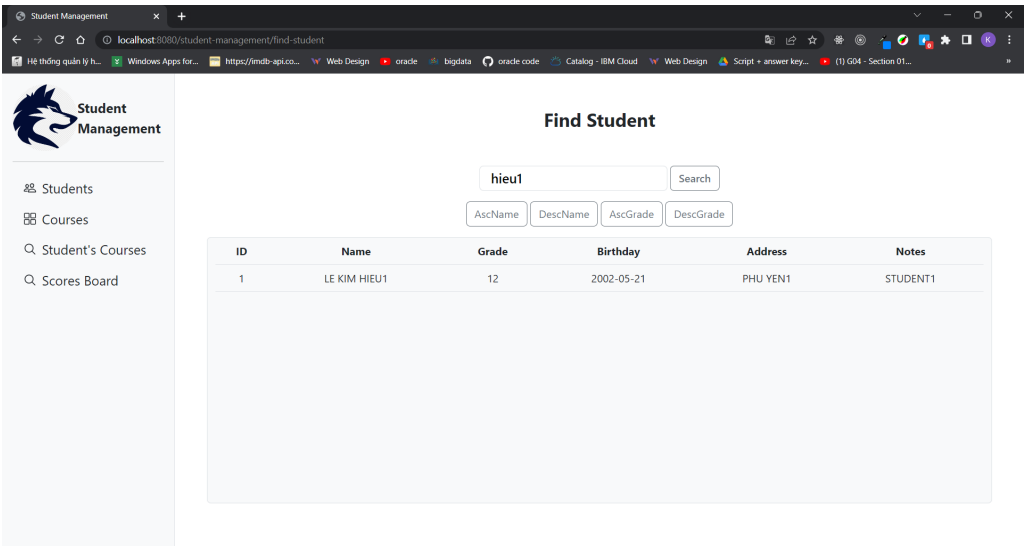
2. Course

- Main page Course:

- Add course:
  - Fill all fields in the information of the course (Notes field isn't required). Unless error message will appear.
  - Example Add course:

  - Result:

- Edit course:
  - Fill Course Id to find the course you want to edit then fill the information of the course you want to edit (Notes isn't required). Unless error message will appear.
  - Example Edit course:

  - Result:

- Delete course:
  - Choose the course you want to delete and click Delete button.
  - Example Delete course:

  - Result:

- Sort course by Name:
  - Click on the button AscName or DescName to sort the list of courses by name.
  - Ascending:

  - Descending:

- Find a course by Name:
  - Click on the button Find to find the course you want to find then fill Course Name you want to find.
  - Example Find course:
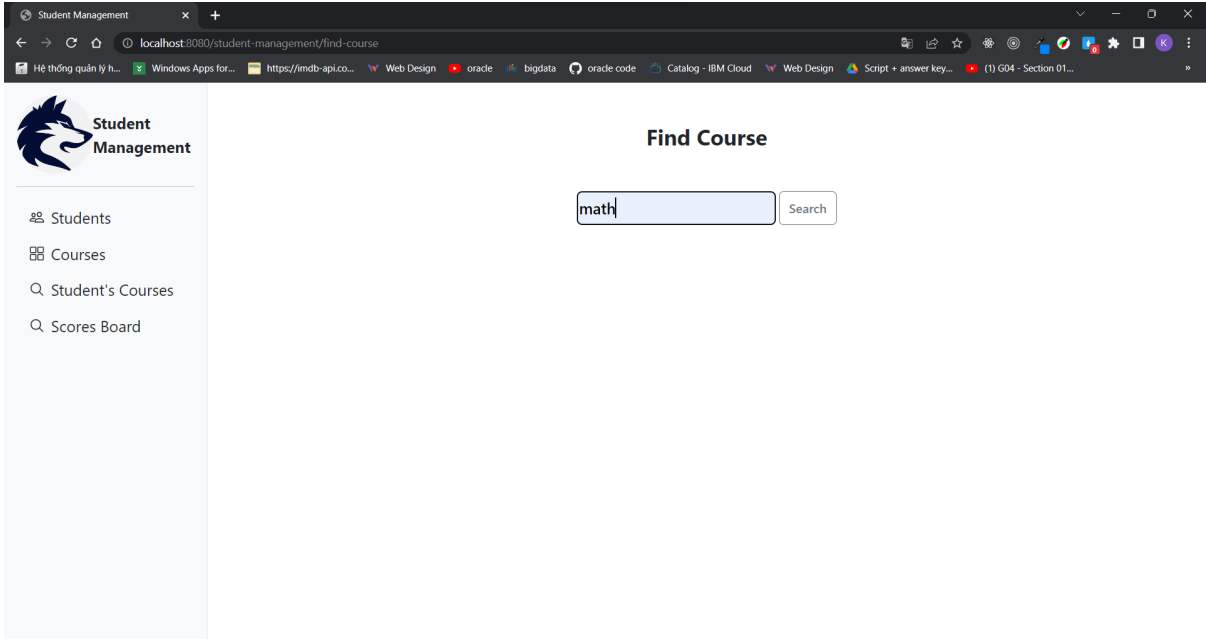
  - Result:
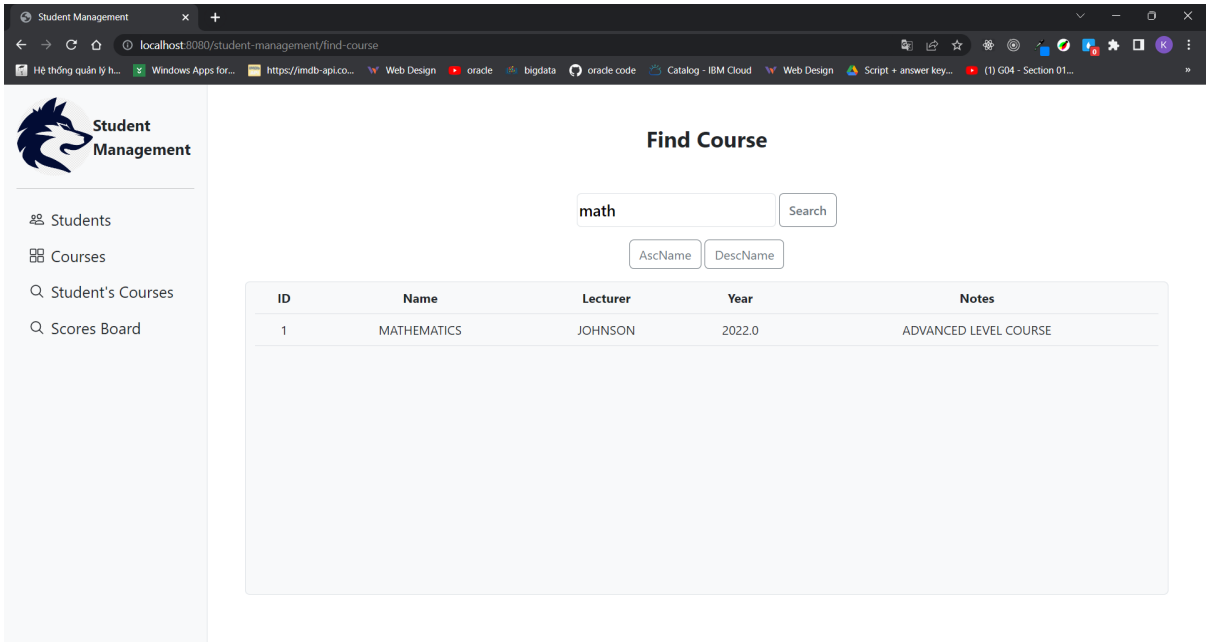
- Search Students in Course:
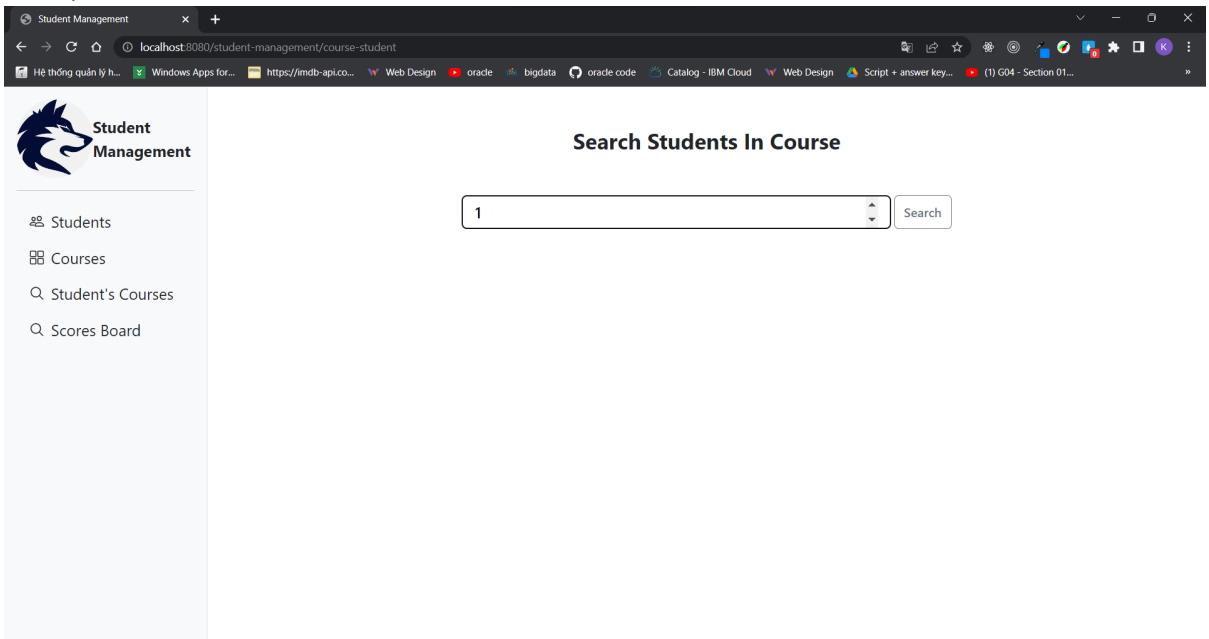 - Click on the button Search to find the students in the course you want to find then fill Course Id you want to find.
  - Example Search students in course:
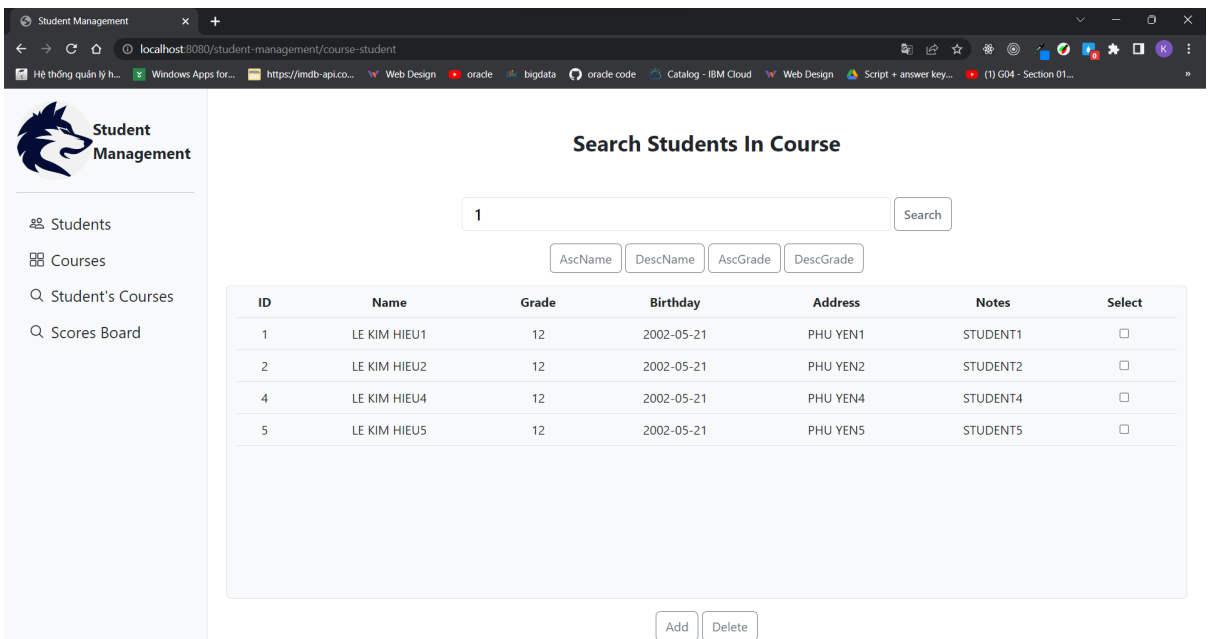

  - Result:

- Add Student into Course:
  - Click on the button Add to add the student into the course then fill Student Id you want to add.
  - Example Add student into course:

  - Result:

- Delete Student in Course:

- Click on the button Delete to delete the student in the course then fill Student Id you want to delete.
- Example Delete student in course:

- Result:

3. Courses of Student

- Main page Courses of Student:
  - Click on the button Student's Course in Sidebar to find the courses of the student then fill Course Id and Year you want to find.
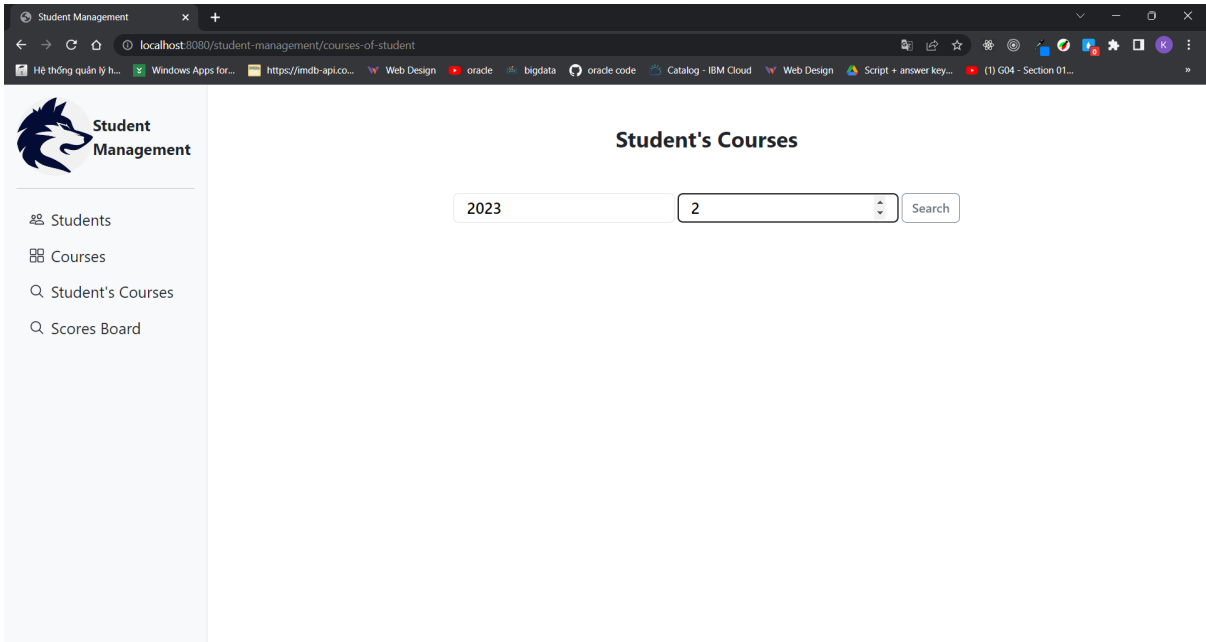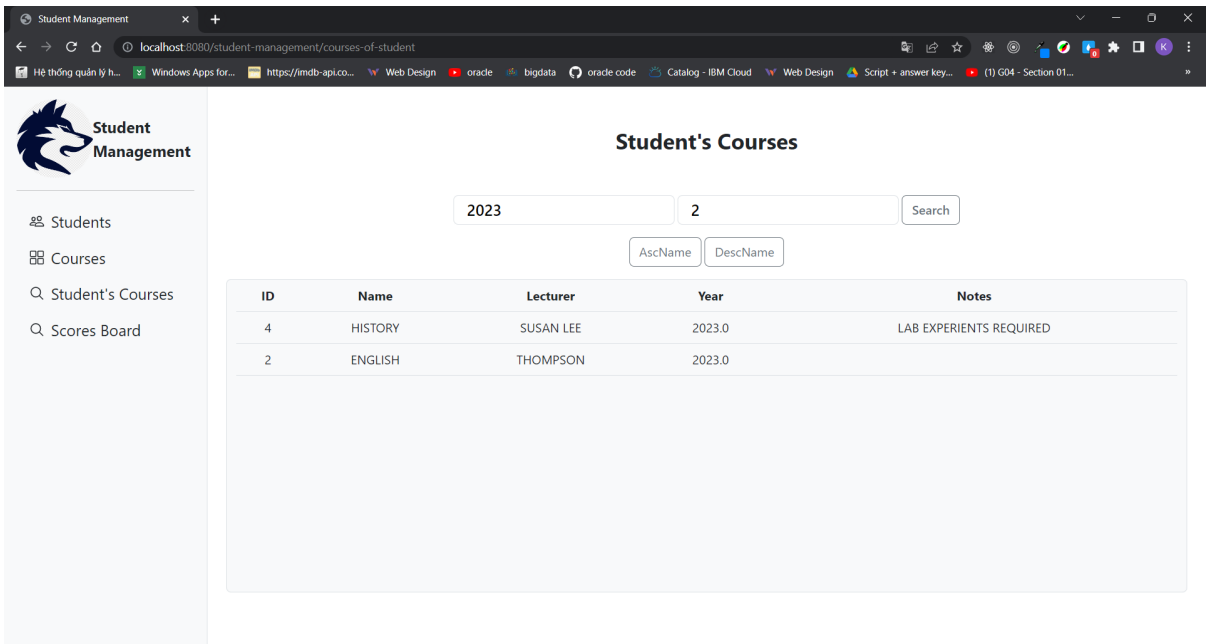 - Example Courses of Student:
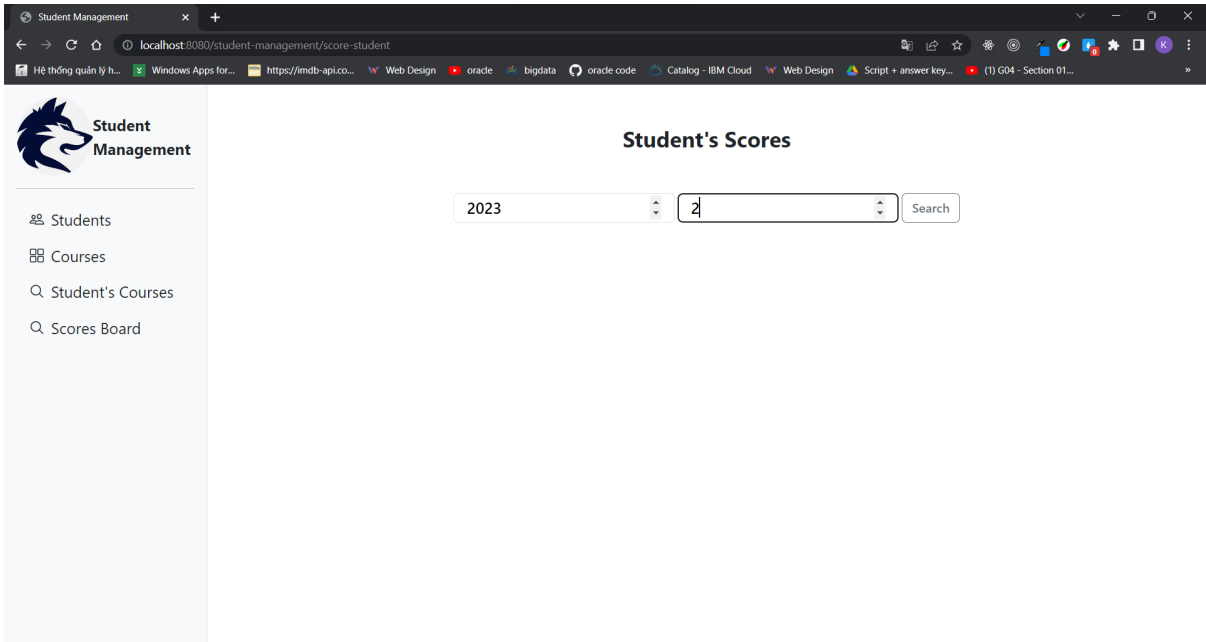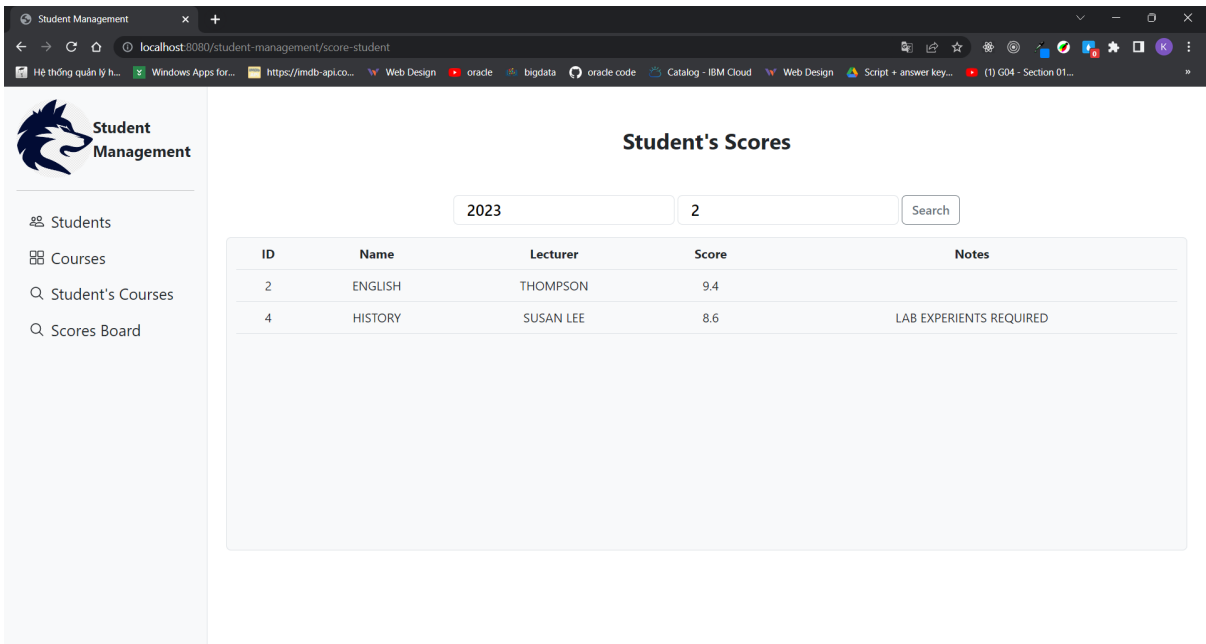

  - result:

4. Score Board

- Main page Score Board:
  - Click on the button Scores Board in Sidebar to find the scores of the student then fill Student Id and Year you want to find.
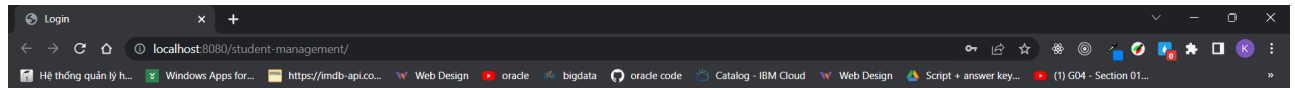 - Example Score Board:

  - Result:

5. Login (bonus):

- When you run the project, you will be directed to the login page. You can log in with the username and password you entered when you created the database.

- Here, I still can't create register, Authentication and Authorization for the project.

Thank you for reading!