Group 37

GitHub repository https://github.com/ucl-comp0010-2024/G-37

- Backend folder: https://github.com/ucl-comp0010-2024/G-37/tree/main/Group_37/src/main/java/uk/ac/ucl/comp0010

- Frontend folder: https://github.com/ucl-comp0010-2024/G-37/tree/main/Group_37/src/main/java/frontend/cw-frontend-javascript-main

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Group members:

Student id	Name	UCL email	GitHub username
23019827	Joyce Kong	hui.kong.23@ucl.ac.uk	Joycekonghy
23073400	Victoria Smirnova	victoria.smirnova.23@ucl.ac.uk	zceivsm
23138180	Kate Bundiuk	kate.bundiuk.23@ucl.ac.uk	Katya25

General Contribution Score:

Joyce Kong - 120

Victoria Smirnova - 120

Kate Bundiuk - 120

Summary of extensions:

Frontend

- Homepage:
  - Improved the existing UI for better user experience.
- Students:

- o The ability to add, change and delete students was added.
  - o You can see all the students and information about them.
- Modules:
  - o On this page, the user can create/edit/delete modules.
  - o All existing modules, information about them and the number of enrolled students is displayed.
- Registrations:
  - o Possibility to register students for modules.
  - o A list of all students who are registered for at least one module is displayed. You can see information about the student and the number of modules in which he is enrolled.
  - o By clicking on a student, all their modules are displayed, as well as the average grade for each of them.
- Grades:
  - o On this page, the user can grade students for the modules they are registered for.
  - o When grading a module, you must indicate all available assessments and their weights. After which the student's average grade will be calculated.
  - o The grade will also be displayed in the UK grading system (1st class, second, third, fail).
  - o While adding a grade, you can watch how the pie chart and UK grading system calculator change dynamically.
  - o A list of all students with grades is displayed. By clicking on a student, you can see more information and change the grade for any module.
  - o For each student, you can download a report with grades for all assessed modules. The report is saved in pdf.
- Advice:
  - o On this page you can find useful information links and answers to frequently asked questions.
- All pages:
  - o Across all pages there is a dark mode available which can be turned on and off on any of the pages.

Backend

- Sql schema was modified. The grade table score was changed from int to double.
- API endpoints
  - o Grades:
    - *GET /grades/grades*: Retrieve all grades.
    - *GET /grades/grades/{id}*: Retrieve a grade by its ID.
    - *POST /grades/addGrades*: Add a new grade for a student in a module (validates student registration and avoids duplicate grades)
  - o Students:
    - *GET /Student*: Retrieve all students.
    - GET /Student/{id}: Retrieve a student by their unique ID.
    - POST /Student: Add or update a student (ensures required fields and avoids duplicates)
  - o Modules:
    - *GET /Module*: Retrieve all modules.

- *GET /Module/{code}*: Retrieve a module by its code
- *POST /Module*: Add or update a module (validates conflicts with existing modules)
  - o Registrations:
    - *GET /registrations/registrations*: Retrieve all registrations.
    - *POST /registrations/registerModules*: Register a student for a module (validates student and module existence and avoids duplicate registrations).
  - o Report:
    - *GET /reports/student/{id}*: Generate a detailed PDF report for a student, including personal details and grades for enrolled modules.

- POM
  - o Addition dependencies:
    - **pdfbox**: Enables PDF creation, manipulation, and text extraction.
    - j**unit-jupiter-api** & **junit-jupiter-engine**: For writing and executing unit tests with JUnit 5
    - m**ockito-core**: Supports mocking dependencies for isolated unit tests.
    - **hibernate-core**: Facilitates database interaction via Object-Relational Mapping (ORM)
  - o Additional plugins:
    - maven-checkstyle-plugin
    - spotbugs-maven-plugin
    - jacoco-maven-plugin