***SEG 2105 - Project Group 5***

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# Introduction

This project is a group project consisting of 4 people. We created a Course Booking app via an Android Studio.

Because this app has various types of users and CRUD (Create, Read, Update, Delete) functionality, we had to implement a database. In this case, our group decided to use MySQL because 2 of our members did not have access to Google and their APIs.

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The app has a login system for 3 types of users, admins, students, and instructors. It also has a sign up feature for students and instructors only.

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For admins, they are able to Create courses, as well as delete student and instructor accounts. In addition, they are able to edit the courses they created.

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For Instructors, they are able to view all courses, view courses via their course name or code, assign themselves to teach said courses, and are able to edit the Courses themselves (the description, capacity, and session times).

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For students, they are able to view courses as well, including the option to view courses by their session date. Student are able to enroll and unenroll in courses, as well as view the courses that they are enrolled in.

# UML Diagram

Diagram, schematic

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# Team Roles and Contributions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Matthew Tang | Yannick Vaillancourt | Darcy Zeng | Weiwei Zhang |
| Deliverable 1 | UI/UX design, testing, bug fixing, Presentation | Database Design,  Bug fixing, testing,  UML Diagram | Bug fixing, testing | Database design,  Bug fixing, testing |
| Deliverable 2 | UML Diagram, Test Cases, testing, Bug Fixing, Presentation | Database Design,  Bug fixing, testing | UI/UX design, test cases, testing, bug fixing | Database design,  Bug fixing, testing |
| Deliverable 3 | UML Diagram, UI/UX Design, Database Design, Test Cases, testing, bug fixing,  Presentation | testing, bug fixing | testing, bug fixing | testing, bug fixing |

# Lessons Learnt and Challenges

In terms of technical skills, we learnt a lot about not only android programming and UI development, but a lot about database development and testing/bug fixing/QA. It included not only the stuff learnt in class, but also 3rd party materials. We had to consult with Google and various sites to find solutions for a lot of our problems.

In terms of soft skills, delegation of roles as well as communication. Some of us felt more comfortable with certain roles (front end, back end, QA, design, recordings/presentation). Also, because all of us have different course loads and personal obligations/setbacks, it was crucial that we tried to communicate our availability and what we worked on/needs working on.

For challenges, we believe that building off of each other was the most difficult aspect. Throughout the entire process, it was evident that we all have different coding styles and varying skills in programming and database design. Because sometimes some of us were not available, we had to help pick each other back up by building on each other’s code. As a result, trying to understand and work along with another coding style unlike our own was a great challenge that helped us grow as programmers in a team environment.