CSCB07 - Final Project

Scrum Members:
Qihui Li
Xinzi Huang
Zhiyu Pan
Yibai Wang (Kevin Wang on Quercus)
Zheyuan Wei (Scrum Master)

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The main tasks done by each member of the group

Qihui Li

- Implemented the `ViewAllCourses` activity for Admins to view all the courses in the database

- Implemented the `EditCourse` activity for Admins to edit the information of a course
- Implemented the `EditCourseList` activity (course_want adn course_taken) for Students to edit the list of courses they want to take or have taken
- Helped implement the `AddCourse` frontend for Admins to add a new course to the database

Xinzi Huang

- Implemented the `LoginActivity` activity for the user (Students and Admins) to login
- Implemented the `SignupActivity` activity for the user (Students and Admins) to register
- Refactored the `LoginActivity` to reflect the knowledge learned in the course

Zhiyu Pan

- Implemented the `SignupActivity` activity for the user (Students and Admins) to register
- JUnit tests for `LoginActivity`
- All Front-end UI design in Sprint 2 (mainly for `CourseTaken`, `CourseWanted`, `AdminEdit`, `AdminHome`)
- Helped with refactoring the `LoginActivity` for the ease of testing

Yibai Wang

- Designed the Database for Courses
- Implemented the `Planner` function for Students to plan their courses, which is the core functionality of our app
- Designed the `Planner` UI for Students to plan their courses

Zheyuan Wei (Scrum Master)

- Daily Scrum Meeting and Sprint Planning Meeting, and corresponding documentation
- Basic Firebase, Android Project, and GitHub setup
- Designed the Database for Users (Students and Admins)

- Proposed the idea of using `md5` to encrypt the password for security, and using `md5 with salt` to avoid coincidence of the same `md5` value for different passwords
- Designed and implemented the Java `Course` class which is widely used in the project for basic processing of the course information, and storing or retrieving data from the database
- According to the `Firebase` asynchronous nature, designed and implemented the `getFromDatabase()` method to retrieve data from the database with maximum ease of use, and provided a sample usage (callback function) for the user to process the data on GitHub
- Implemented the `AddCourse` activity for Admins to add a new course to the database
- Solved all the merge conflicts in the project
- Found and fixed all the bugs in the project whenever a merge is done wrongly

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A summary of each of the Scrum meetings

Sprint 1 (Nov 16-Nov 22)

- Discussion of the project idea and the breakdown of the user stories into tasks (For Sprint 1, there are 5 tasks in total)
- Splitting of the tasks by reaching a consensus on the workloads (Poker Planning) of each task
- Decisions on the database structure
- Decisions on Splitting whole project into 3 sprints

Sprint 2 (Nov 23-Dec 2)

- Discussion of the progress of the tasks in Sprint 1
- Enhancement of the database structure
- Breakdown of the user stories into tasks (For Sprint 2, there are 12 tasks in total)
- Since we found that we overestimated the workload of the tasks in Sprint 1. Therefore, we decided to have 2 sprints in total, and this sprint has 12 tasks in

total; We also decided to split the tasks into 2 parts: Front-end and Back-end

- Assessed the workload of each task and split the tasks by reaching a consensus on the workloads (Poker Planning) of each task
- Assigned the tasks to each member of the group according to continuity from the previous sprint, and the workload of each task

No Sprint 3 (Cancelled as we finished all the tasks in Sprint 2)

- Cancelled as we finished all the tasks in Sprint 2

Edit: Zheyuan Wei (Scrum Master)