Com S 309 Project Proposal

**Project 1**

· Computer Ticketing System

· To make it more accessible for people to address and resolve the problem in an IT environment.

· Description of project

o This will solve the problem of having to respond/reply to emails multiple times. This ticketing system will make it easier to navigate and convenient for end users to submit a problem and be able to see the response from the same page. The end users will have to create a new ticket every time they need help with a problem. The managers or administrators can and will provide a solution to the end users’ problem.

o This project will work by creating a system where admins/managers, employees, and students can request help from a IT department in an efficient manner. Students can submit help requests and they can be easily visible and prioritized by the managers and employees, and they can be resolved by employees. This will create a structured system in which managers can manage their employee groups, employees can work together to solve the problems, and users can view the status of their help ticket requests.

· We will use android studio and java in order to compose this application. We will create this application as a mobile application.

· Large/complex: This project will be complex because it requires multiple levels of access, including managers, admins, employees, and people submitting help desk tickets, or the “users” of the application. This project will also be complex because our group does not have previous experience with this type of application and we will need to learn about git and android studio in order to create an effective UI for the users.

**Project 2**

· Book Club and Review

· Allow users to quickly find interesting books and communicate with others to share book suggestions, reviews, and view book details, including reading level and reading time.

· Description of project

o This app will solve the problem of users searching for highly rated books, also will allow them to discuss textbook information, view reviews, authors, etc.

o Create an app with book images to review your book, view the author, etc., users can chat with others and chat with friends to find new books

o Users can scan the book or type in the title to view reading times and user created summaries for the book

o Admin and managers can add new books to the list, etc

o Users can also have the ability to track all of the books they have read and get suggestions about new books to read.

o This will be a mobile application primarily with Java and composed with Android studio. The UI should be easy to navigate and may require camera access, depending on whether we are able to accept user images to identify books.

· This would include API, android studio, login access with username and password, database use, learning about server functions and web hosting and more

* + API: <https://www.goodreads.com/api> (book live data)
  + API: <https://openlibrary.org/developers/api> (library API)
  + Publicly available book database: https://github.com/uchidalab/book-dataset

· Would this be reasonable? Need to ask the TAs. We are having a difficult time with project ideas, please help

**Project 3**

· Study group - campus

· Students from classes on campus and similar majors can meet up on an app and choose a location to meet in order to study for classes, form study groups to prepare for exams and collaborate with peers on homework assignments

· Description of project

Students at college can search their class to look for students in the same class. Once they find a student in the same class, they can join a group and communicate with other members of the class in order to work on assignments, including online. This would solve any problem with working together as classes are online, because students can still meet people and study online if they have an introduction to these students.

o This project will allow students at a university to meet up with students in the same class in order to create study groups and meet in person or online in order to prepare for upcoming exams and collaborate on projects and homework assignments when needed.

o The project will work by users registering an account, and then if they would like, they can input their class information and find matches with other students who want to work together and prepare for the class.

· This will be composed with android composer studio on a mobile app that is easy to use for students. We will use java to compose this app.

· This project will be complex because it will require strong teamwork skills, and our group is unfamiliar with git and android studio. In addition this will require an app in which users can chat with each other and form study groups in order to meet on campus, or meet online, in order to meet new people and create study groups.

**Project 4**

· Online Submission System

Allows interaction between students and instructors in the same university concerning assignment submission and feedback from instructors.

· Description of project

o This project will solve the problem of communication between instructor and students that caused by the recent COVID-19 pandemic.

o This project has 3 modules. Administrator module to create accounts for instructors and students. Instructors module to assign homework to students. Students module to submit homework.

· Java, android studio, SQL are required for creating this application.

· This project will be very complex since our team members don’t have any experience with git and android studio.Besides, SQL database is also required for students and instructors information. Lastly, this project is made up of three different modules which have different roles.

**Project 5**

· Hospital Management System

Keeping records of admission of the patient, scheduling appointments between doctor and patient, provide a layout of each department’s location in the hospital, as well as a 24/7 chat service for emergency purposes.

· Description of project

o This app allows patients to get reminders from their nurses and doctors about their medical check-up, appointments, medication prescription, and even keep track of their admission records.

o The project will work by users registering an account, and then if they would like, they can input their information such as their specialties (which department they are working in) and their schedule (for appointments) and find matches with patients who need medical attention.

The managers will be in charge of the employees’ paycheck and the expenses (maintenance, utilities or new equipment) for the hospital.

· This will be composed with android composer studio on a mobile app that is easy to use for patients, doctors and nurses. We will use java to compose this app.

· This project will be very complex since our team members don’t have any experience with git and android studio. This project will be complex because it requires multiple levels of access, including doctors, nurses, patients, pharmacists, and managers.