CS 242 Final Project Proposal

Best Study Spot App
<Fanyin Ji> (fji4), <Wang Yu>

1. Abstract

1.1. Project Purpose
It helps students to find the best study spot for themselves.

1.2. Background/Motivation
I often find out it is hard for me to find a good place to study. Therefore, I hope there is an app that users can share their favorite study spot. This app helps user to choose where they want to study.

2. Technical Specifications

2.1. **Platform:** React-native

2.2. **Programming Languages:** Javascript

2.3. **Stylistic Conventions:** CamelCase naming convention, function signature commenting

2.4. **SDK:** IOS 11

2.5. **IDE:** WebStorm

2.6. **Tools/Interfaces:** Expo (ios-emulator), Jest for testing

2.7. **Target Audience:** UIUC students

3. Functional Specifications

3.1. Features

- Users can see all the university libraries list as good study spot

- Users can see all the opening hours for libraries

- Users can see the special study spot features for each library. (i.e. room reservation)

- User can see the picture for the specific feature.

- User can recommend their own favorite study spot

- User can comment on the study spot

- User can know where the place is through Google Map.

- Login with email and password created by user.

- User can also up vote and down vote on the study spot.

3.2. **Scope of project**
What are some of the limitations of this product?

It only works in UIUC. If the number of users go up, the space for storage data may not enough.

4. Timeline:

4.1. Week 1

- Basic UI design for the whole App

- The home page

- The user login and register form

- The library list and open hours

- The user recommendation and comment

4.2. Week 2

- Apply library API

- Setup database and authorization for users

4.3. Week 3

- Setup and implement user recommendation forms

- Store the recommendation data to database

- Create API for user's recommendation

4.4. Week 4

- Implement Google Map for both libraries and user's recommended spots

- Wrap up the whole App and test

- If have time, implement the route planning

5. Future Enhancements
In the future, I would like add route planning, such as bus route planning, from user's current place to their favorite study spot.