Project Specification for Group #175

Team Name: Group #175 - Study Buddy Finder

Domain: Matchmaking and Learning Collaboration

Software Specification:

This program allows users (students) to be matched with and connect with other students for collaborative study sessions based on their availability, courses, and/or program of study.

User Stories:

Team user story (core functionality):

As a student, I want to be matched with a study buddy who is in the same course as me and is available during my study times, so that we can collaborate effectively and keep each other accountable.

Tanaya:

I want to be able to create an account and fill in my info/availability to be matched with others, including my name, bio, courses, program, and availability.

Cooper:

I want to be able to see the profiles of potential matches based on common courses and availability.

Jinbo:

I want to be able to schedule a new study session with my potential study buddy matches.

Alex:

If no matches are found for students taking the same courses I am who are available at times that work with my schedule, or if I don't want to study with any of my matches, then I want to be given options to expand my search to find other study buddies, such as others in my same program, or simply with others sharing the same availability.

Harris:

Once I have made an account, I want to be able to log into my account and see my upcoming study sessions (when, with who, for what course), if any are booked.

- I'd also like to be able to cancel a booked study session if I'm no longer able to attend, or propose a new time to meet.

Proposed Entities for the Domain:

1. **User (Student)**
    - Instance variables: username, email, password, program of study, enrolled courses, study session availability
2. **Study Session**
    - Instance variables: session ID, subject, time, date, participants, duration, (course to study for)
3. **Course**
    - Instance variables: course name, course code
4. **Buddy Match**
    - Instance variables: match ID, user1, user2, subjects of interest, availability
5. **Availability**
    - Instance variables: availability (HashMap <Timeslot (e.g. Monday 10:00-11:00; see Timeslot below), Boolean>)
6. **Timeslot**
    - For the functionality of the schedule/availability. For simplicity due to time constraints, all time slots will be 1 hour long, starting/ending on the hour.

    - Instance variables: day of week, start and end time (HH:MM)

Proposed API for the project:

- **Meeting scheduler/availability API**
    - https://slotify.ca
    - Slotify provides the user with options to designate their availability and to schedule meetings/events with other users.
    - We will use this for the declaring availability functionality and matching students based on their specified available times
- **Account creation/login API**
    - http://vm003.teach.cs.toronto.edu:20112
    - This API will serve to create user accounts and store these credentials (username/password) for users to log back in

Scheduled Meeting Times + Mode of Communication:

Meeting time outside of lab:

- In addition to meeting in the lab each week, we will also meet virtually via Zoom once per week on Thursdays at 6 PM.

Mode of Communication:

- Communication during outside-of-lab meetings will take place via Zoom link and via Instagram messaging