Mayank Rastogi: 74196783
Simran Garcha: 73497414
Yibo Chen: 16248171
David Deng: 81830770

M4 Reflections

Development information

Public IP address:

13.58.69.56

Main Complexity

The main complexity of our project is implemented in the session creation and management frontend and API calls. Here the users are able to browse real time sessions hosted by users and host study sessions public or private study sessions for other users to join, with users receiving firebase notifications with their sessions. They are also able to view a live map integrated using the Google Maps API to browse and view sessions. The sessions logic proved to be quite complex to implement, especially on the frontend where we had limited experience with Kotlin.

Commit Hash:

4d1d49024cbce984a349dcde1eb538b975b5f823

AI Reflections:

We used AI technologies to develop our MVP

1. We used ChatGPT, DeepSeek-V3, and Github Copilot for our MVP code
2. The primary goal of using these technologies was to assist us in the development of both our frontend and backend by generating starter code, refactoring existing code, and explaining syntax intricacies with the languages / frameworks used.
3. The main advantage we saw in using these technologies was that it allowed us to quickly generate code, especially in Kotlin, a language which all of us were unfamiliar with. The AI we used was also quite effective at spotting errors we made in our code and some missed corner cases.
4. While using AI was able to quickly generate starter code, many times, the starter code was not perfect - it would change code we didn't want refactored and we almost always had to correct the generated code. While the AI was quite good at explaining changes necessary for the modifications, we still found it difficult to maintain / develop on top of the generated starter code, especially for Kotlin where we were somewhat unfamiliar with the framework's syntax.

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5. We were very reliant on AI technology (around 70%) as we found it to be a valuable tool while developing the project. We would estimate that around 65% of the code was generated or refined with AI assistance.

Contribution of Each Team Member:

- David Deng - 50 hours
    - Integrated firebase push notifications with the app
    - Created controllers routes and controllers for session, user and firebase push notifications
- Yibo Chen - 45 hours
    - Integrated google maps API and user location functionality
    - Added features to allow users to join/leave session through the map
- Simran Garcha - 45 hours
    - Deployed server and database on EC2 instance
    - Created group and other routes, controllers, and frontend components
- Mayank Rastogi - 50 hours
    - Created frontend workflows for sessions and private session invitations
    - Creatend frontend workflow for friend management