Travel Companion App

Week 2 | From 02/13 - 02/19

Leader: Darius Rafeh

Varun Mange	Tasks completed: ● Worked on the project proposal ○ Finished the phase-wise distribution of tasks ● Looked into AI tools to assist development ○ Openrouter - one place with access to all AI models ○ Opencode - a terminal based AI coding agent ○ Kilocode - coding agent that integrates with any text editor ○ Cursor, Github Copilot, and JetBrains AI have free plans for students ● Read/watched about Turborepo, ElysiaJS, and React Native ● Went through ElysiaJS documentation and read about Eden treaty - ElysiaJS's way to handle end-to-end type safety ● Explored the Hugging Face platform, discover few models and datasets of interest Planned tasks for next week: ● Build the initial database schema ● Start implementing the Login and Register screens ● Communicate with the backend to have working authentication ● Design a test plan Any issues or challenges: ● I tried running LLM models on my local machine (16 GB VRAM), but the performance was not that great. Can still use it for simple, low effort tasks.
Allen Paul	Tasks completed: ● Worked on project proposal with team ● Reviewed and finalized backend stack ● Studied backend tools through reading documentation and watching videos. Primarily for ElysiaJS and Prisma. Planned tasks for next week: ● Start implementing authentication endpoints ● Coordinate with frontend to define request/response formats for integration. Any issues or challenges: ● Learning curve with ElysiaJS and Bun since they are different from the usual Node.js/Express setup. ● Figuring out how to design the backend to support offline first syncing

	without complicating the initial implementation.
Darius Rafeh	Tasks completed: ● Worked on project proposal ● Read through some of the documentation for React Native ● Installed NodeJS and set up React Native/React Native Expo on Visual Studio IDE, and created the first project ● Downloaded the Expo Go mobile app in order to preview/test react native code on a mobile device's screen ● Learned the basics of Figma and utilized Figma and Google Stitch's AI to generate some UI drafts of the mobile app - Looked over the designs and took notes on what needed to be changed ● Looked into AI tools that can help in our development Planned tasks for next week: ● Finalize Figma UI/UX Designs ● Set up Github Copilot Pro through Github Education ● Replicate the Figma UI/UX in React Native and utilize Expo Go or Android/ios emulators in development Any issues or challenges: ● Not much of an issue, but when referencing a guide, they made changes to a file App.js. However, I had to make changes to a typescript file index.tsx since React Native Expo made it the default file in the project template from version 0.71 onwards for ease of use.
Kapil Yadav	Tasks completed: ● Thorough went through the project proposal and my role ● Researched how offline-first database sync would work for the app ○ SQLite will serve as the local on-device database for offline storage ○ Data created offline gets queued and synced to the main PostgreSQL backend once connectivity is restored ○ Explored conflict resolution strategies for when local and remote data diverge Planned tasks for next week: ● Create the architecture diagram ● Begin implementing working JWT authentication Any issues or challenges: ●

Time Spent

Name	Time Spent
Varun Mange	8h
Allen Paul	6h
Darius Rafeh	6h 30m
Kapil Yadav	5h
Total	**25h 30m**

Summary

All group members worked on and reviewed the project proposal, as well as finalizing and researching their tech stack, and setting tasks for the following week.