

IM3080 Design and Innovation Project (AY2022/23 Semester 1)

Individual Report

Name: Liu Mojia

Group No: 1

Project Title: NyMe

Contributions to the Project

Planning

Suggested and ideate the topic of carpooling in the initial stage of the project. Researched in terms of feasibility and innovation for the topic, successfully encouraged the group to take on this topic.

Involved in project management for assigning and distribution of roles at the planning stage of the project.

Executing

Focused on routing, scheduling and front-end during the execution of the project. Actively discussed and brainstormed to refine our application during each iteration.

Researched on the topic of scheduling and implemented React Native calendar, which was eventually used for the final version.

Developed daily route interface, which made use of reusable components to display the details of data in a simple and tidy form.

Added loading function to the application for the front-end to sync with the back end, thus making sure all data is fetched before displayed on screen.

Improved the aesthetic of interface with Stylesheet, which is used for styling in React Native.

Deployment

Coordinated with the UX/UI team and backend team to successfully implement and integrate the application.

Tested and debugged the application to ensure usability of the application.

Reflection on Learning Outcome Attainment

Point 1: Problem Analysis

Identified the market gap for the market of carpooling and innovated with NyMe solution. Brainstormed and breakdown the technical problem (eg. Feasibility of the algorithm of shortest path, navigation within the application, transfer of data, API calls etc.) with teammates, suggest and propose different solutions to tackle the problems.

Point 2: Communication

Working in a large group helped me to understand the importance of communication. For our team, we have split into sub-teams to work on different part of the project, therefore it is extremely crucial to communication and update for the progress of our work, this is to make sure that everyone is on the same page, and we can proceed to next stage together.

Point 3: Engineering Knowledge

I have learned about planning, execution, testing and deployments for software functions and components

I can better understand and appreciate the whole software development process and learnt to work with a big team for engineering projects.

Point 4: Modern Technology

Learnt latest tech stack, such as React Native, GitHub, Axios, MongoDB; Coding language Javascript. I have a better overview and the functionality of the modern technologies; I can apply what I have learnt into creating my own personal side projects.