

IM3080 Design and Innovation Project (AY2023/24 Semester 1)

Individual Report

Name: Thong Sue Hin

Group No: 1

Project Title: NTU Mart

Contributions to the Project (1 page)

Role: Frontend Team

Planning:

- Created the Use Case Diagram
- Contributed to the conceptualization of the chosen (current) topic

User Interface Design (Figma):

- Designed and planned the Layouts and Wireframes for the “Selling Item” and “Settings” screen
- Brainstormed for designs of miscellaneous icons and illustrations
- Contributed to the development of User Journey Diagram

Frontend:

- Implemented the Selling Item and Settings screen
- Allowed users to select items from their device to attach in their listing
- Designed pop-up screens after user successfully listed their item and when user successfully updated their profile settings

Deliverables (Group Report, Poster, Presentation Slides and Video):

- Assisted in improving the visuals of the Presentation Slides and Poster
- Contributed to the content of Group Report and Presentation Slides
- Edited the final Video by inputting subtitles, adding transitions and adding an introductory clip

Reflection on Learning Outcome Attainment

Reflect on your experience during your project and the achievements you have relating to at least two of the points below:

- (a) Engineering knowledge
- (b) Problem Analysis
- (c) Investigation
- (d) Design/development of Solutions
- (e) Modern Tool Usage
- (f) The Engineer and Society
- (g) Environment and Sustainability
- (h) Ethics
- (i) Individual and Team Work
- (j) Communication
- (k) Project Management and Finance
- (l) Lifelong Learning

Point 1: Individual and Team Work

To me, DIP has demonstrated how team work and individual work correlates to and amplifies each other. As this was my first experience working with a large team of 9 other individuals, I learnt that communication was essential in ensuring that everyone knew their role in the project and that we could work more productively. In order to ensure that everyone was on the same page from the very beginning, we engaged in weekly discussions to get everyone's understanding, ideas and expectations for the project. Personally, I found it difficult to express my opinions at first because I did not know anyone in my team and being an introvert, I tend to be reserved in group settings. However, my team mates were welcoming and respected each other's opinions, allowing me to feel comfortable sharing my ideas for the project. As a result, I was able to collaborate with my teammates to advance the project and comprehend my place in the team.

Individual:

In navigating the process of app development, I found that my individual responsibilities, particularly within the front-end team, demanded a sense of autonomy and self-driven initiative. Designing user interfaces, implementing features, and troubleshooting required a personalized approach to problem-solving. This aspect of individual work reinforced the importance of personal accountability and taking ownership of assigned tasks.

Team:

Simultaneously, the collaborative nature of our team work became evident in the way each member's unique skills seamlessly complemented one another. Whether it was the back-end team ensuring data integrity, the project manager coordinating timelines, or the cross-functional

communication facilitated by tools like Jira and GitHub, our collective efforts synergized to propel the project forward. This emphasized the notion that effective team work is not just about shared tasks but a cohesive integration of diverse talents.

This experience has reinforced that while individual proficiency is crucial, it is within the collective efforts of a team that true innovation and success are realized. Each team member's role, skills, and perspectives were integral to the final product. As I reflect on this module, I carry forward a deepened understanding of the symbiotic relationship between individual contributions and collaborative team work, recognizing that both are indispensable elements in achieving a comprehensive and successful outcome.

Point 2: Lifelong learning

Embarking on the journey of creating a mobile app from scratch in a 13-weeks has been an enriching experience that deepened my appreciation for the concept of lifelong learning. As a member of the front-end team, my role involved utilizing various technologies and platforms, including Jira for project management, GitHub for version control, and Flutter with Dart in Android Studio for app development. The constant learning curve associated with these tools illuminated the importance of adaptability and a commitment to ongoing education. Being a member of a 10 member team highlighted the value of collaborative learning. Working with people who were experts in different areas of app development broadened my knowledge and promoted a culture of sharing knowledge. Given that our roles were interdisciplinary, it was highlighted that each team member brought a distinct skill set to the table, demonstrating that lifelong learning is a collaborative effort as much as an individual one that must be accomplished successfully. Besides technical skills and knowledge, I had learned many values and attributes from my team mates such as perseverance and their generosity in knowledge sharing. DIP has essentially highlighted the fact that learning happens far outside of the traditional classroom. All of these experiences—embracing new technologies, working with a diverse team, and overcoming app development obstacles—have served to emphasise the importance of ongoing education for both professional and personal development. As I wrap up this module, I continue to have a lifelong learning mindset, realising that being curious and flexible in the rapidly changing technological landscape is not only a choice, but a requirement for success.