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

Name: Luong Quang Tuan

Group No: 2

Project Title: PetHome

Contributions to the Project (1 page)

During the first few weeks, I and my peers all did some research and shared our ideas to decide how our app would be like. Later, I was responsible for database setup using the Firebase Firestore database. Initially, I and Lihao planned the logic flows of the database. Then, I created the database structures and updated the structures if needed throughout the application implementation. I also generated the data and pushed it into the database. For the image data, I deployed Firebase cloud platform to store it so that the application didn't overload.

For the next few weeks, I was responsible for the Home Page and the Filter Page of the app. I utilized Android Studio to build the front-end of the pages following our group's Figma designs. Afterwards, I utilized Java programming and developed the back-end features of the pages, namely the Swipe Effect, Filter Feature, etc. I also retrieved the data from Firebase for the back end by using Firebase NoSQL programming.

Besides, I helped test and debug the app to ensure that it would work efficiently. I also helped other peers if they needed.

Reflection on Learning Outcome Attainment

Reflect on your experience during your project and the achievements you have relating to <u>at least two</u> 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 Teamwork
   (j) Communication
   (k) Project Management and Finance
   (l) Lifelong Learning

Point 1: Modern Tool Usage

During this project, I had the opportunity to learn and use many modern tools such as Firebase, GitHub, Jira, etc. These are useful tools and may assist me much when I participate in other projects or have a job as a programmer. With Firebase, I learned how to store and manage the data. With GitHub, I learned to collaborate with my teammates and perform peer-coding without meeting face-to-face. With Jira, I learned how to manage the project and cope with the tasks and deadlines.

Point 2: Individual and Teamwork

Thanks to this project, I have met many peers from my course and have learnt much from them. I have also practiced my teamwork skills. To be more specific, this project helped me gain many valuable experiences while working on a team. I have learnt how to communicate effectively with my teammates and collaborate with them to do the job assigned – which is a very crucial part of the future working environment.

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