

**LONDON METROPOLITAN UNIVERSITY****PROFESSIONAL WORK PLACEMENT****LEARNING LOG**

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DATES OF ENTRIES IN LEARNING LOG:

Log Index	Start Date	End Date	Company Supervisor Signature
Log 1	20/06/2024	01/07/2024	

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# LEARNING LOG 1

For the period 20/06/2024 (start date) to 01/07/2024 (end date).

## **What have I done? (relate tasks to Learning Outcomes):**

**(LO1):** I organized my project's codebase into clear modules like models, repositories, and screens. This helped improve the readability and scalability of my project.

**(LO2):** I focused on improving my skills in Flutter development and backend integration. I successfully integrated Supabase into my Flutter application. This involved setting up connections to Supabase's Postgres database and performing CRUD operations. I also implemented data retrieval using ListView.builder.

**(LO9):** I showed adaptability by quickly learning new technologies and methodologies. I followed Bloc for state management, mastering its core components like providers, listeners, consumers, builders, and context reading methods. This proactive approach helped me manage data flow and improve app responsiveness.

## **What I did well (refer to skills used):**

### **Backend Integration Success:**

I learn important concept connecting Supabase into my Flutter app. I used Supabase to handle data and perform CRUD operations effectively. This success came from carefully following tutorials and practicing regularly, which helped me understand how to manage and manipulate data correctly.

### **Code Organization Mastery:**

I managed to organize my project's code into clear sections like models, repositories, and screens. This made my code easier to read and work with. I achieved this by planning out the structure before starting and making sure everything was placed where it needed to be, which made the project much more manageable. Tutors and mentors make clear to me about merits of proper organizing project resources.

### **Learning New Technologies:**

I showed strong ability to learn new tools and methods quickly. I picked up how to use Bloc for state management efficiently. I used resources like YouTube and Stack Overflow to find solutions to problems and learn new techniques, which helped me get the hang of these new technologies and apply them successfully.

## **What I could improve on (i.e. skills I want to improve):**

**Understanding Bloc Architecture:** To further enhance my skills, I need to increase my understanding and application of Bloc architecture for more complex app scenarios (LO9). This will help me handle state management better and create more efficient and responsive applications.

**Improving Communication Skills:** Additionally, improving my communication skills will help in clearer interactions with team members and mentors. This development will lead to better collaboration and ensure everyone is on the same page (LO5).

**Action I can take to improve my skills and learning (make these “SMART”):**

**State Management:**

- **Goal:** Gain clear understanding in Bloc architecture for effective state management.
- **Action:** Reading blog, focusing on Bloc architecture and its practical applications.
- **Timing:** By the end of the next 10-day period, achieve skill in implementing Bloc pattern for app functionalities.

**Communication Skills:**

- **Goal:** Enhance communication confidence and simplicity in team interactions.
- **Action:** Initiate regular one to one discussions with team members and mentors to seek guidance and clarify project objectives.
- **Timing:** Within the upcoming week, demonstrate improved communication skills and active engagement in team discussions.

## LEARNING LOG 2

For the period \_\_\_\_ **02/07/2024** \_\_\_\_ (start date) to \_\_\_\_ **15/07/2024** \_\_\_\_ (end date).

### **What have I done? (relate tasks to Learning Outcomes):**

**(L11):** I worked on implementing internationalization (i18n) in Flutter and created a Radiotile to change languages. This task helped me understand how to make our app accessible to users who speak different languages. Additionally, I communicated with team leaders, members in a remote working environment to ensure the implementation aligned with our project goals.

**(LO13):** I added search and sort functionalities to our Flutter app and pushed the code to GitHub. This task involved both learning new logical implementations and using GitHub for version control.

**(LO14):** I collaborated on the Sumnima Paruhang admin system project, focusing on creating a responsive UI for the donors' web app. This helped me practice designing UIs that look good on different screen sizes.

### **What I did well (refer to skills used):**

**Communication and Interpersonal Skills:** I followed Flutter documentation to implement internationalization, which helped me understand how to explain and clarify new features to my team (LO11). I confidently communicate and make friendly environment within team.

**Collaboration:** I collaborated with my team to create a responsive UI for a "Sumnima and Paruhang" project. This improved my ability to work in a team and contribute effectively (LO14).

**Git and GitHub:** I pushed the code to GitHub after implementing search and sort functionalities. This enhanced my understanding of version control and how to manage code repositories (LO13).

### **What I could improve on (i.e. skills I want to improve):**

**Problem-Solving:** I faced confusion during the setup of internationalization packages. I need to improve my problem-solving skills by practicing more with different Flutter features (LO11).

**Git and Github tool(Concept and commands):** I need to be more confident in asking for help from my mentors and members when I face difficulties (LO14).

**Action I can take to improve my skills and learning (make these “SMART”):**

**Problem Solving:**

**Goal:** Improve problem-solving skills in integrating different Flutter features.

**Action:** Spend at least 1 hour every day studying and practicing various Flutter features.

**Timing:** Start from next Monday (07/16/2024).

**Learning new technology and tool:**

**Goal:** Enhance skills in using Git and GitHub.

**Action:** Practice and Learn git commands.

**Timing:** Continue to learn and practice git and github new concept from (07/19/2024) .

## LEARNING LOG 3

For the period 16/07/2024 (start date) to 29/07/2024 (end date).

### **What have I done? (relate tasks to Learning Outcomes):**

**(LO21):** I worked on completing the remaining parts of the mobile UI. I managed my time by breaking down the tasks for each day. This helped me finish the work on time and make sure everything looked good.

**(LO22):** I focused on solving new problems that came up while working on the project. For example, I fixed issues related to layout and widget alignment. I used online resources like youtube and documentation to understand and solve these problems.

**(LO23):** I spent time learning on my own about new Flutter features and tools. I watched videos and read articles to understand how to use new widgets and improve my app's design. This helped me add better features and make the app more user-friendly.

### **What I did well (refer to skills used):**

**Time Management:** I was good at planning my work and keeping track of deadlines. By breaking tasks into smaller parts and setting clear goals, I was able to complete my UI work efficiently.

**Problem-Solving:** I successfully tackled various issues in my project by researching solutions and trying out different approaches. This improved my ability to handle unexpected challenges.

**Self-Learning:** I actively learned new skills and tools related to Flutter. By exploring different resources, I was able to apply new techniques to my project, which made my app better and more functional.

### **What I could improve on (i.e. skills I want to improve):**

**Task Prioritization:** While I managed tasks well, I could improve in prioritizing which tasks need immediate attention and which can be handled later. This will help me address more critical issues first.

**Issue Resolution Speed:** I aim to increase my speed in resolving technical issues by practicing problemsolving techniques more regularly and getting quicker at finding solutions.

**Continuous Learning:** I should continue to explore new technologies and keep learning about updates in Flutter. Staying current with the latest trends will help me keep the app up-to-date and functional.

**Action I can take to improve my skills and learning (make these “SMART”):**

**Task Prioritization:**

- **Goal:** Enhance the ability to prioritize tasks effectively.
- **Action:** Learn a task management methods and review the list daily.
- **Timing:** Implement this method starting next week and evaluate its effectiveness after two weeks.

**Issue Resolution Speed:**

- **Goal:** Improve the speed at which I resolve technical problems.
- **Action:** Allocate time to practice problem-solving with challenging scenarios and seek feedback from mentors on my approach.
- **Timing:** Begin practicing problem-solving techniques immediately and aim to resolve issues more efficiently over the next month.

**Continuous Learning:**

- **Goal:** Stay updated with new developments in Flutter and related tools.
- **Action:** Explore new Flutter features and read about industry trends.
- **Timing:** Start this learning routine immediately and review progress at the end of each month to ensure ongoing improvement.



## LEARNING LOG 4

For the period 30/07/2024 (start date) to 30/08/2024 (end date).

### **What have I done? (relate tasks to Learning Outcomes):**

The period allowed me to learn several essential things to improve user experience within my Flutter application. I applied Dart's concepts about asynchronous and synchronous processing to practice using “async” and “await” functions to maintain application speed during data fetches. I mastered API HTTP methods and Flutter requests to retrieve data from backend or any data source like JSONPlaceholder website(<https://jsonplaceholder.typicode.com/>) which allowed me to present data effectively and resolve problems with guidance from online material. My coding skills strengthened when I studied and started researching more knowledge about the Dart programming language by reading simple books and watching educational videos regarding its basic rules and variables and loops and functions. The continuous improvement of my app made me feel content.

### **What I did well (refer to skills used):**

**1.Time keeping:**I managed time very well to complete all Dart and Flutter lesson. I achieved my timing goals by establishing daily objectives to understand one new Dart concept that helped me maintain pace throughout the project.

**2.Problem fixing:**I cracked down effectively on challenging problems which included fixing my broken API requests and resolving delays from my async code implementation. I examined basic websites then consulted friends while testing multiple approaches through which I found solutions giving me satisfaction for mastering complex problems with no outside help.

**3.Learning on my own:**Teaching myself new Dart and Flutter concepts proved to be my strongest competence throughout the project. I utilized entertaining videos together with simple books to discover Dart basics and asynchronous programming as well as API workings through programming exercises which enabled me to enhance my app and deliver an improved user experience.

### **What I could improve on (i.e. skills I want to improve):**

**1.Picking the right tasks:** Improving my ability to select important Dart or Flutter tasks remains my challenge with time management despite adequate performance. My priority would shift to key problems such as API errors to solve them first so my application evolves at a faster rate.

**2.Fixing problems faster:**I wish to enhance my speed when tackling coding glitches by better comprehending broken API requests and asynchronous code failures. The combination of increased practice with quick research methods would help me save time so the app development process would speed up.

**3.Keeping up with new stuff:**It is crucial for me to stay informed about recent Dart and Flutter developments since they enable my application to maintain its modern appearance and function optimally. I frequently examine fresh building methods.

## Action I can take to improve my skills and learning (make these “SMART”):

### Picking the Right Tasks:

- **Goal:**My objective is to improve my ability to select crucial work assignments in my Flutter and Dart projects.
- **Action:**I plan to establish a daily routine which involves determining important tasks using either notebook or application before starting my day.
- **Timing:** Followed by next two-week testing period will be best.

### Fixing Problems Faster:

- **Goal:**My objective is to improve my coding problem-solving speed when working with Dart and Flutter.
- **Action:**I will dedicate thirty minutes daily to practice difficult coding problems at Flutter docs and YouTube while seeking weekly feedback from my teacher or friend regarding my code solutions.
- **Timing:**The practice commences immediately toward securing faster speed and increased self-assurance.

### Keeping Up with New Stuff:

- **Goal:**My aim is to follow every Dart and Flutter update which enables my application to remain modern.
- **Action:**I will watch one Flutter tutorial video together with one basic Dart article each week before implementing newly learned features in my application.
- **Timing:**My plan begins where I will check my progress beyond to establish regular learning updates.

## LEARNING LOG 5

For the period 31/08/2024 (start date) to 30/09/2024 (end date).

### **What have I done? (relate tasks to Learning Outcomes):**

Frontend Flutter advancement was the main objective of my internship where I received Supabase backend technology training. Here's what I accomplished:

**(LO1):** I evolved my study strategy after performing assessments on educational materials from the beginning of my education (LO1). An evaluation of my coding advancements and backend development and state management activities from last month formed part of this assessment. The review of my studies helped me gain improved mastery of fundamental concepts while properly identifying which topics needed more attention.

**(LO2):** When I built essential UI components for my application I achieved the second learning outcome through this work which led to frontend Flutter skill advancement. My main task involved the creation of special widgets in addition to optimizing application routes for delivering a superior user experience. A performance enhancement was integrated into ListView.builder after its deployment for showing dynamic information.

**(LO9):** I integrated Supabase real-time data updating features in the backend interface components of my Flutter application. Supabase real-time listeners integrated properly with data stream management systems generated faster responses and improved application response speed.

**(LO13):** My group together with me added new features to the GitHub project repository through collaboration efforts. The ability to create proper commits and merge conflicting code successfully allowed me to develop my skills in version control management.

### **What I did well (refer to skills used):**

**1.Reflection and Revision:** I reviewed my previous work effectively through reflection to understand the connection between past lessons like code modularity and state management during current assignments. The reflective practice revealed the evolution of my development skills to facilitate future Flutter development applications.

**2.Frontend Development:** I outstandingly created user-friendly and responsive UI components using Flutter framework. Making custom widgets together with layout modifications strengthened visual presentation and operational quality of the app while utilizing both creativity and problem-solving ability.

**3.Backend syncing:** I implemented successful Supabase-based real-time data fetching which demanded thorough debugging while mastering asynchronous programming to succeed. I devoted significant effort toward developing and testing the integrated functionalities until the system achieved a refined and improved user experience.

### **What I could improve on (i.e. skills I want to improve):**

**1.Debugging efficiency:**I resolved problems with real-time data together with the user interface but spent too much time detecting program flaws. My goal is to improve my debugging speed and accuracy because it will enhance my workflow performance.

**2.Code optimization:**My review revealed that parts of the Flutter code could achieve better efficiency mainly because of performance issues with large datasets. The optimization techniques for flutter applications requires knowledge which I plan to acquire.

**3.Team feedback integration:**My teamwork improves yet I should be more active at seeking feedback from my team to apply it faster when developing work outputs.

### **Action I can take to improve my skills and learning (make these “SMART”):**

#### **Debugging Efficiency:**

- **Goal:**I aim to shorten the period needed to detect and fix issues which appear in my Flutter applications along with Supabase code.
- **Action:**Weekly practice of debugging techniques requires solving two sample bug scenarios with Flutter’s DevTools while consulting Stack Overflow for assistance.
- **Timing:**The project activates promptly to achieve faster debugging duration throughout upcoming weeks

#### **Code Optimization:**

- **Goal:**My objective is to optimize Flutter application performance by transforming the code which handles big data sets.
- **Action:**I will study at least one recommendation related to Flutter performance best practices from tutorials or articles each week before applying the learnings to enhance my project.
- **Timing:** Begin this week and review app performance improvements by the end of the month (30/10/2024).

#### **Team Feedback Integration:**

- **Goal:**The goal is to develop greater speed in implementing team feedback efficiently into my work.
- **Action:**I will dedicate 15 minutes twice in October to receive team feedback from a team member or mentor after which I will apply one change from each session to my current code.
- **Timing:**All the feedback session should be mandatory present and sessions require implementation of changes to happen within coming period.