# Reflection Log #1

## Section 1 – COMPACT HEADER

**Date:** June 6, 2025  
**Student Name:** Vishnu Narayanan K R  
**Student ID:** 2301623  
**Company Name:** YULCOM Technologies Inc.  
**Faculty Supervisor Name:** Michel Paquette  
**Time Period Covered:** May 20 – June 6, 2025

## Section 2 – TECHNICAL INFORMATION

During this reporting period, I was assigned to a Health care project which helps Doctors and other health care professionals better streamline patient registration, appointment management, visits and diagnostics easily. This involves both front-end and back-end development using a tech stack of **Django**, **React**, and **PostgreSQL**. The codebase is managed using **Git** and hosted on **Bitbucket**.

The first few days were focused on onboarding. I was introduced to the team, familiarized myself with internal documentation and tools like VS Code, pgAdmin, and Postman, and successfully set up both the front-end and back-end environments on my local machine. I attended onboarding meetings with my supervisor Mr. Komi and other team members to understand expectations and ongoing projects.

I started by studying the existing Django API implementations and understanding the database schema via pgAdmin. This gave me the context needed to begin contributing meaningfully. I was then assigned to assist in improving user workflows in the UI for a health-related web application, including roles and access distinctions.

One major feature I worked on involved **creating role-based UI distinctions**. After researching options, I implemented an enum-based scalable solution to cleanly separate user views and permissions. I also helped identify and fix bugs related to page reloads and missing UI functionalities by documenting user flows and tracking issues.

In the later part of this period, I worked on a new module involving **Vitals and Biometric data**. This included integrating API data into a visual component using React Charts and ensuring data could be both retrieved and sent correctly. I also debugged issues with React hooks and forms, learning more about component lifecycle and state management. Finally, I started working on **Appointment Booking**, identifying bugs with date formatting and preparing to implement edit functionality in the next phase.

**What worked well:**

* Quick adaptation to the tech stack and development workflow.
* Effective collaboration and clarification from team members.
* Successful feature integration with clean Git practices.

**Challenges and learning:**

* Understanding unfamiliar parts of the legacy codebase.
* Debugging complex React state issues.
* Coordinating between frontend and backend requirements for API integration.

**Knowledge used:**

* Django REST Framework
* React Hooks and Components
* Git (branching, PRs, commits)
* Postman for API testing
* UI design considerations for user roles

**Knowledge gaps:**

* Need to learn more about advanced React debugging and testing.
* More exposure to REST API error handling and scalable UI patterns.

## Section 3 – PERSONAL INFORMATION

Overall, my experience so far has been positive and enriching. The onboarding process was smooth, and my colleagues have been welcoming and supportive. I’ve had regular opportunities to ask questions and receive feedback, particularly from my supervisor Mr. Komi and teammates like Quitian, Eric, and Zafer.

While the volume of new information and tech was initially overwhelming, I feel I’ve adapted quickly and am now contributing more confidently. I appreciate the flexibility in the work environment, including the mix of in-office and remote work.

Sometimes I still struggle with estimating time accurately for unfamiliar tasks, and I occasionally feel unsure whether I’m moving at the expected pace. However, the regular check-ins and collaborative problem-solving make me feel supported.

I’m excited to continue building my skills, especially in front-end debugging and scalable UI development, and I feel motivated to learn more in the upcoming weeks.