**Meeting Minutes**

**Date:** 10/03/25

**Time:** 16:10-16:40

**Location:** Richmond Building

**Team-Leader:** Hanzala bin Tariq (23056605)

**Team-Speaker:** Muhammad Ejaz (23057056)

**Attendees:**

* Syed Saram Afaq (23040215)
* Huzaifa Shoukat (23056606)
* Muhammad Ali Hamza (23056614)
* George Kepgang Deumo (22015168)
* Humaid Bodiyat (21008213)

**Call to Order:**

Hanzal Bin Tariq called the meeting, and it started at 16:10

**Agenda**

**1. Backend & API Development**

**Discussion Summary:**

* Back-end architecture discussed
* Compared Flask and FastAPI
* Finalized simulation method for sensor data

**Decisions Made:**

* Decided to use FastAPI to create the backend API
* To finalize the database schema by March 12
* Implement starting endpoints for the retrieval of data sooner than later

**Individual Progress & Updates**

* **Hanzala bin Tariq:** Draft database schema was set up and ER diagram was presented
* **Muhammad Ejaz:** Comparison of the backend frameworks, led discussions regarding API structures
* **Syed Saram Afaq:** Researched sensor data formats for simulation
* **Huzaifa Shoukat:** Setup the initial code for API endpoints
* **Muhammad Ali Hamza:** Started with the mockup for a front-end dashboard
* **George Kepgang Deumo:** Considered techniques for real-time data streaming
* **Humaid Bodiyat:** UI concepts for a mobile dashboard layout.

**Upcoming Tasks:**

* **Hanzala bin Tariq:** Finalization and security setup of database schema in PostgreSQL
* **Muhammad Ejaz:** Setting up a base structure for FastAPI and creating an end-point for sensors/data
* **Syed Saram Afaq:** Develop Python Script to Simulate Sensor Data and Feed into Database
* **Huzaifa Shoukat:** Include Implementation of Basic GET Endpoints and Testing of API Response
* **Muhammad Ali Hamza:** Begin the Initial Layout of the Frontend in HTML and CSS
* **George Kepgang Deumo:** Establish WebSocket Connection for Live Data Updates
* **Humaid Bodiyat:** To create the design layout of the login page and navigation menu.