**Meeting Minutes**

**Date:** 17/03/25

**Time:** 17:00-17:35

**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:**

Muhammad Ejaz called the meeting, and it started at 17:00

**Agenda**

**Discussion Summary:**

* Revised format for simulated data
* Testing sample data with the API entry-point
* Database table indexing for performance discussed

**Decisions Made:**

* Having confirmed simulation of sensor data, random generators were instructed by realistic thresholds.
* The basic API has been tested for success with the passed sample data.
* It was mutually agreed to have indexes in PostgreSQL for the columns sensor\_id and timestamp.

**Individual Progress & Updates**

* **Hanzala bin Tariq:** Finalized DB schema and made initial data insertions test.
* **Muhammad Ejaz:** Created sensors/endpoint with JSON response.
* **Syed Saram Afaq:** Sensor data simulator development in Python
* **Huzaifa Shoukat:** Did the unit testing of API endpoints
* **Muhammad Ali Hamza:** Started interlinking the API and front end through Axios.
* **George Kepgang Deumo:** Tested real-time socket data on-local setup
* **Humaid Bodiyat:** Created the login page, integrating into the frontend wireframes.

**Upcoming Tasks**

**Hanzala bin Tariq:** Constraints and indexing in DB Schema

**Muhammad Ejaz:** Create new POST endpoint for incoming sensor data

**Syed Saram Afaq:** Automating sensor data simulation with cron job

**Huzaifa Shoukat:** Extended Test Coverage for all APIs

**Muhammad Ali Hamza:** Attach dashboard chart with API

**George Kepgang Deumo:** Optimize WebSocket performance by buffered updates for updating

**Humaid Bodiyat:** Implement responsive layout for login/authentication for tablet/mobile