**Detailed Design Document**

This document is used for the detailed design phase. The development team will update material from the preliminary design report to complete this document.

1. **Introduction** – The purpose of the project is to create an IoT platform that will be able to scale both upwards and downwards. This is because as the website gets more users, we will need it to scale upwards so that it does not crash and when the website does not have a lot of users, we can scale it downwards to save money.
2. **Design Overview**
3. **Design specifications and their importance**
4. **Diagrams and Design** – Showing the software, infrastructure, and how everything is going to work together including data flow
5. **Design Status**
6. List of issues, constraints, and problematic areas with their effect on the system
7. List of issues and their effects on the design if they are wrong
8. Developmental environment

**3. Operation Overview**

A. Operation scripts

B. System Performance

**4. Design description (for each major function)**

**A.** Overall subsystem capacity

B. High-level description of input and output

C. List a number or error messages of systems and user’s actions

D. Internal storage requirements

E. Diagrams showing the entire infrastructure