**Meeting Minutes 24/10/24**

Virtual

**Attendees:**John

Nikodem

Josheph

Tom

**Agenda:**Introductions.

Discuss the Cloud-based IoT Lifecycle Manager application.

Explore potential use cases and target devices.

Address cybersecurity concerns.

Outline work processes, deliverables, and timelines.

**Final Summary from Notes**

**Introductions**

* Attendees introduced themselves and shared their roles.
* Highlighted relevant expertise and project interests.

**Application Overview**

* Aimed to develop a database-driven app to manage IoT device lifecycles (manufacturing, installation, operation, removal, and recycling).
* Key focus areas:
  + Workflow-oriented UI/UX design.
  + Use of Firebase for data management.
  + Microservice architecture with API calls for abstraction.
  + Scalability to accommodate 5–1,000+ devices.

**Key Use Cases and Features**

* LoRaWAN:
  + LoRaWAN-based devices such as lighting, temperature sensors, electric meters, and water meters.
  + Benefits include low cost and secure data transmission over unlicensed spectrum.
* Example data points to track:
  + Device metadata (serial numbers, ownership, location).
  + Photos of installations.
  + Maintenance records.
  + Historical lifecycle tracking.
* Client preferences:
  + Option to host data on client-side servers.
  + Integration with external systems using API keys.

**Cybersecurity Considerations**

* Secure data transmission and connection to remote devices.
* Managing credentials (device SSIDs, access keys).
* Proposed solutions include integration with The Things Network for LoRaWAN infrastructure.

**Work Processes and Deliverables**

* Project Process Expectations:
  + Clear timelines and milestones.
  + Deliverables include a working application prototype and documentation.
* Timeline:
  + Specific dates to be finalized.

**Meeting 29/10/24**

**Virtual**

**Attendees:**  
Tom

Niko

Joe

**Agenda**

1. Plan tasks for the week.
2. Address future issues and constraints.
3. Review and discuss user stories.
4. Outline planning and sprint goals.

**Topics covered:  
Device Lifecycle Tracking and Transfer:**

* Users should track a device throughout its lifecycle.
* Provide an option to transfer the device’s lifecycle backlog to another user within the system when hardware ownership changes.

**Device Search Functionality:**

* Users need a quick way to locate devices from a large database.
* Options include:
  + Search bar functionality.
  + QR code scanning to directly access a device's database entry.

**Sprint 1 (8th–22nd):**

* **Frontend Design:**
  + Begin initial planning of the frontend layout.
  + Collect feedback on the design and refine it in the next sprint.
* **Backend Design:**
  + Develop the backend architecture to support key functionalities.
* **Cybersecurity Planning:**
  + Identify potential security risks and research mitigation strategies.
  + Implement initial cybersecurity measures in the code.