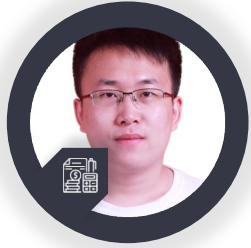


# Smart Farming Application

**AQ Blue Ring Team**

# Our Team Information



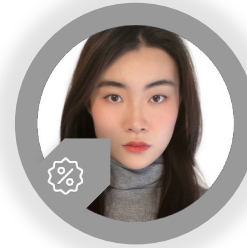
**Zhenning Tang**  
Product  
Owner



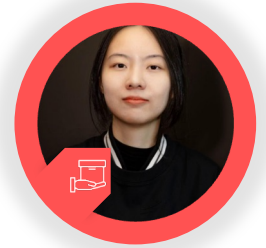
**Liu Lei**  
Scrum  
Master



**Zewei Liu**  
Developer  
Leader



**Yitong Qu**  
Developer



**Wenlin Wang**  
Developer

## Client and Supervisor Information



**Lokesh Chanda**  
Client



**Wei Wang**  
Supervisor

# Project Overview

## Client Background

AquaTerra is a company that focuses on providing digital agricultural solutionst. They promote the success of smart agriculture by offering information on soil conditions, weather forecasts, and other relevant data through IOT device.

## Current Status

AquaTerra using PC-based web platform hosted on AWS cloud services.

## Project Objective

An Android mobile application for agricultural data management and information visualisation.

# Project Challenge from user perspective

- **Limited Portability:** Web version restricts access outside of the office.
- **Real-time Data Dependency:** Reliance on continuous internet connectivity.
- **Higher Learning Curve:** Steeper learning curve with complex interfaces.
- **Cumbersome Hardware Pairing:** Inefficient fieldwork due to complex setups.

# Project Goals

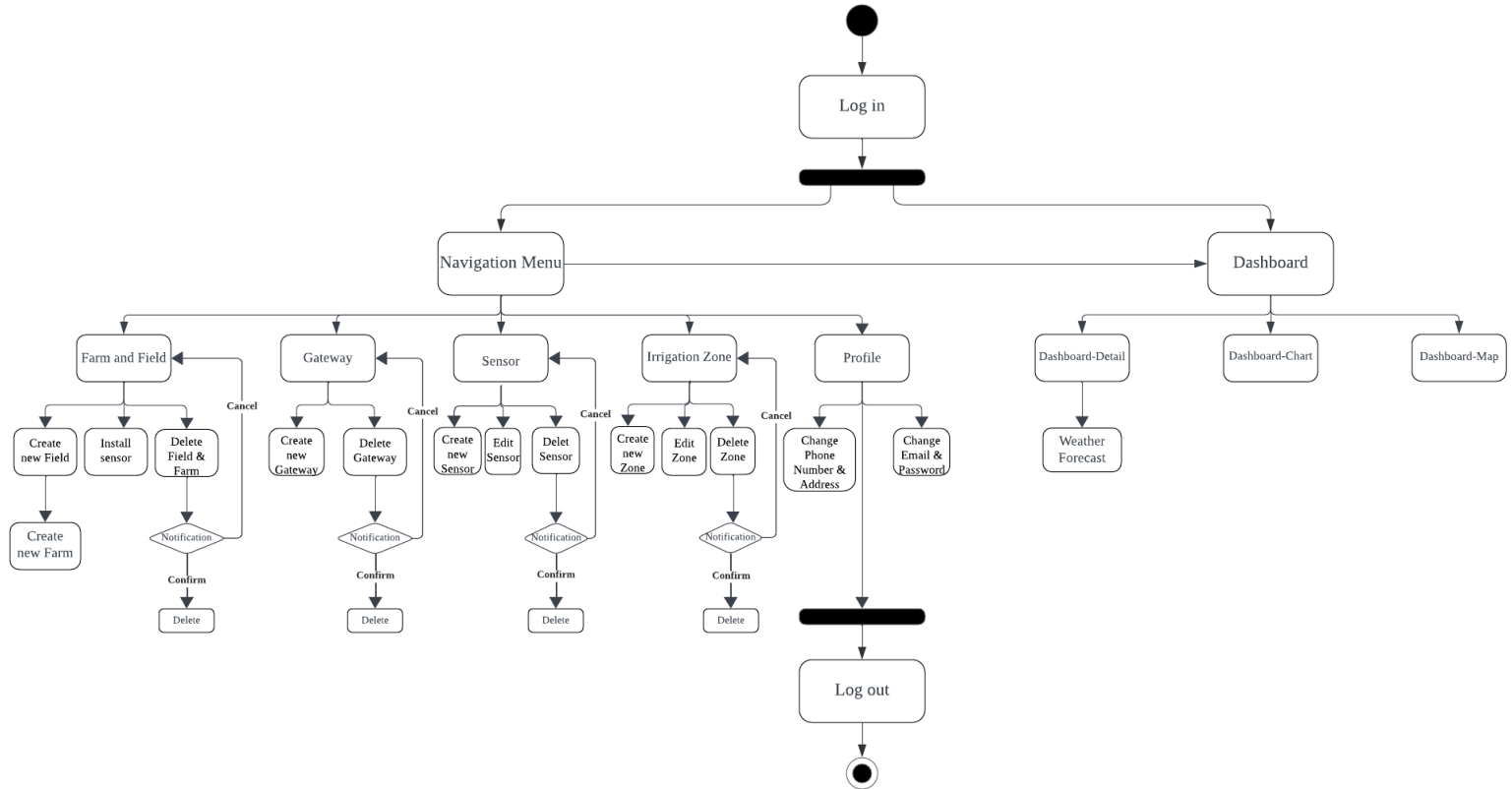
## User-friendly Interface Design

- Design an Android mobile application with an intuitive interface.

## Enhanced User Experience by using mobile application

- Provide timely soil data tracking.
- Offer historical data analysis.
- Ensure reliable information
- Data support Action.
- Manage various data: Farm, Field, Irrigation Zone.
- Sensor pairing, Gateway.

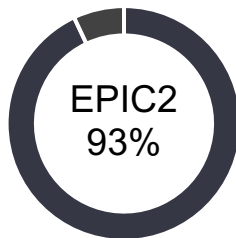
# Demo Time



# Current Process of Project



Account  
Admin



Dashboard



Farm & Field  
Management



Gateways  
Management



Sensors  
Management



Non-Core  
Function



# Project Handover



Github Code



Android APK



System maintain  
Document



User Instruction



# Reflection



## Code Quality

The smooth implementation of product features is inseparable from concise code. At the same time, we also place great emphasis on the readability and maintainability of the code.



## Communication

During the project implementation, team members maintained good communication to keep the progress on track, and also obtained feedback and suggestions for modifications from the client and customers.



## Test Case

For different sprints in our development process, we set up test cases. Through these test cases, we successfully ensured the stability, reliability and predictability of our product's features.



## Future Improvement

We need to pay attention to tasks monitoring to improve the efficiency and execution quality of the project. Additionally, the quality of documentation should also be a focal point.

**Thanks for watching!**