

Project Design document: Plant Disease Detection System

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Abstract

This document outlines the design of the Plant Disease Detection System project, which aim to assist users in identifying plant health issues based on uploaded images. The system provides insights into potential causes related to environmental factors such as soil moisture, humidity, and temperature, and facilitates user access to nearby plant care centers for further assistance.

1 Introduction

This design document details the architecture, use case, and class structure of the Plant Disease Detection System. The system aims to aid users in diagnosing plant health issues by analyzing uploaded images and examining environmental factors like soil moisture, humidity, and temperature. The architecture outlines the core components and interactions within the system, while the use case diagram illustrates the key functions and user interactions, including image upload, health status retrieval, and locating nearby plant care centers. Finally, the class diagram defines the system's core entities and their relationships, providing a foundation for implementation and further development.

2 Architecture

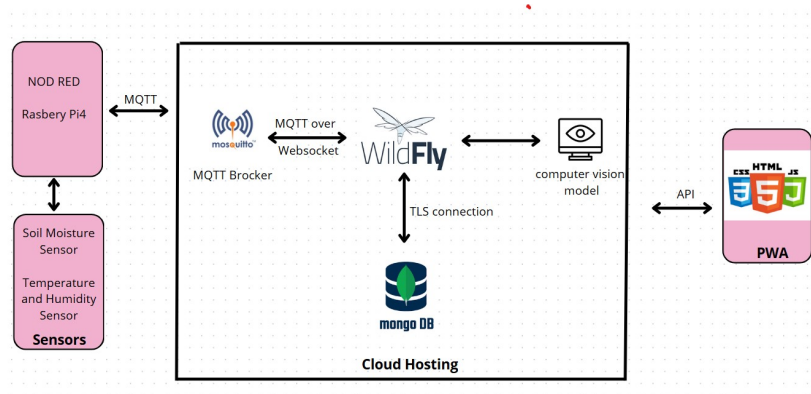


Figure 1: Project Architecture

3 UML diagrams

3.1 Use Case Diagram

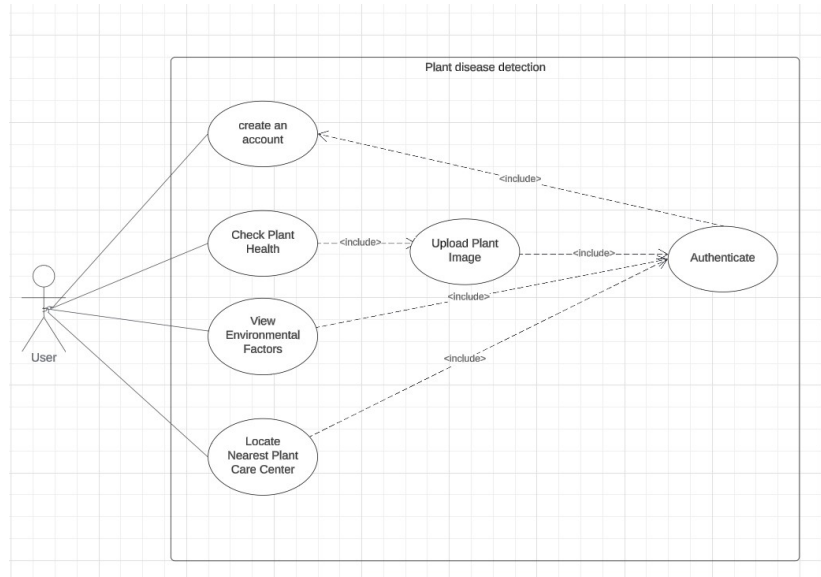


Figure 2: Use Case Diagram

3.2 Class Diagram

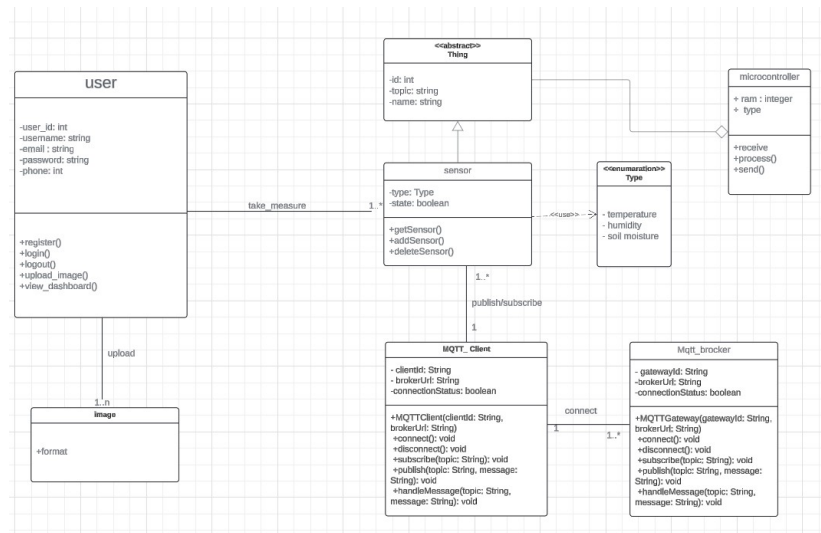


Figure 3: Class Diagram