Plant Monitoring System
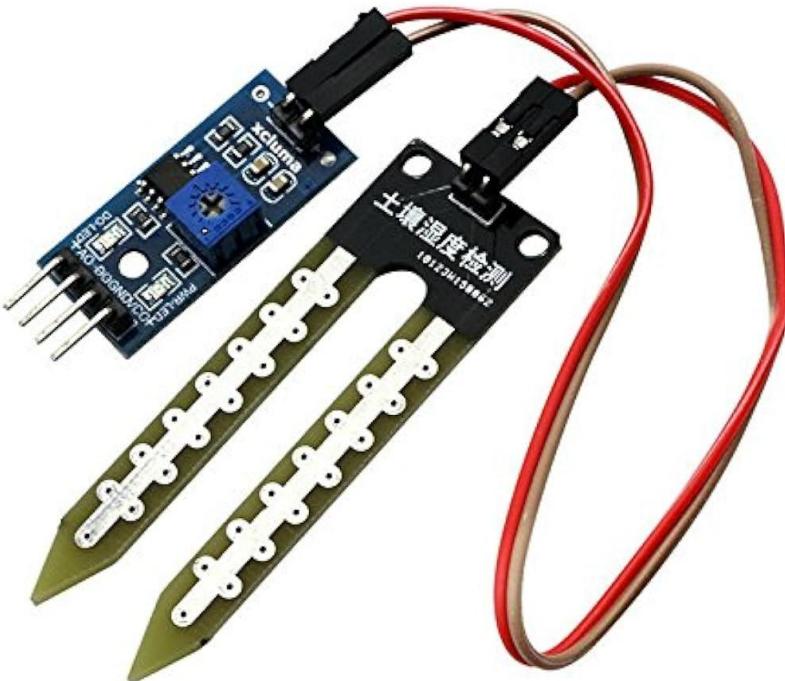
Motivation

Concept Draft

Cloud

PH Sensor → Arduino Wifi

Moisture Sensor → Arduino Wifi

(Wifi)

Raspberry Pi (MQTT Broker)

Dashboard (Display and Control)

Servo

(Local Network)

Phone
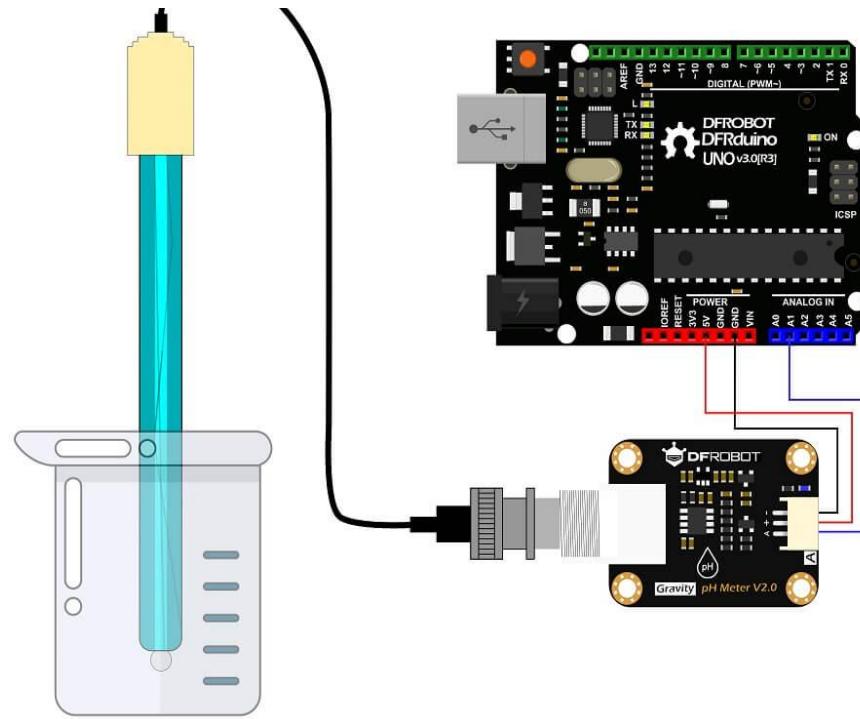
Sensor Nodes Description

Humidity/Moisture Sensor
Mode: Analog to digital(A0 Pin)
Operation: Resistive variation of
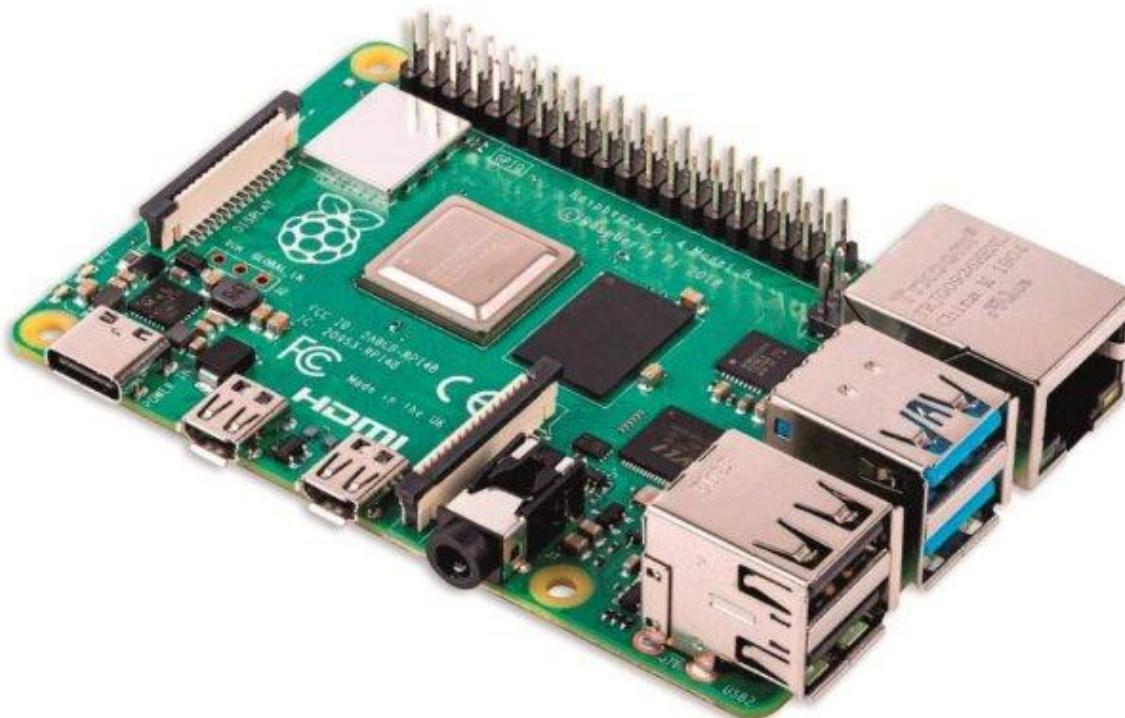
DFRobot Analog PH Sensor
Mode: Analog to digital (A1 Pin)
Voltage: 3.3v-5.5v

Servo

MQTT Broker

Raspberry Pi
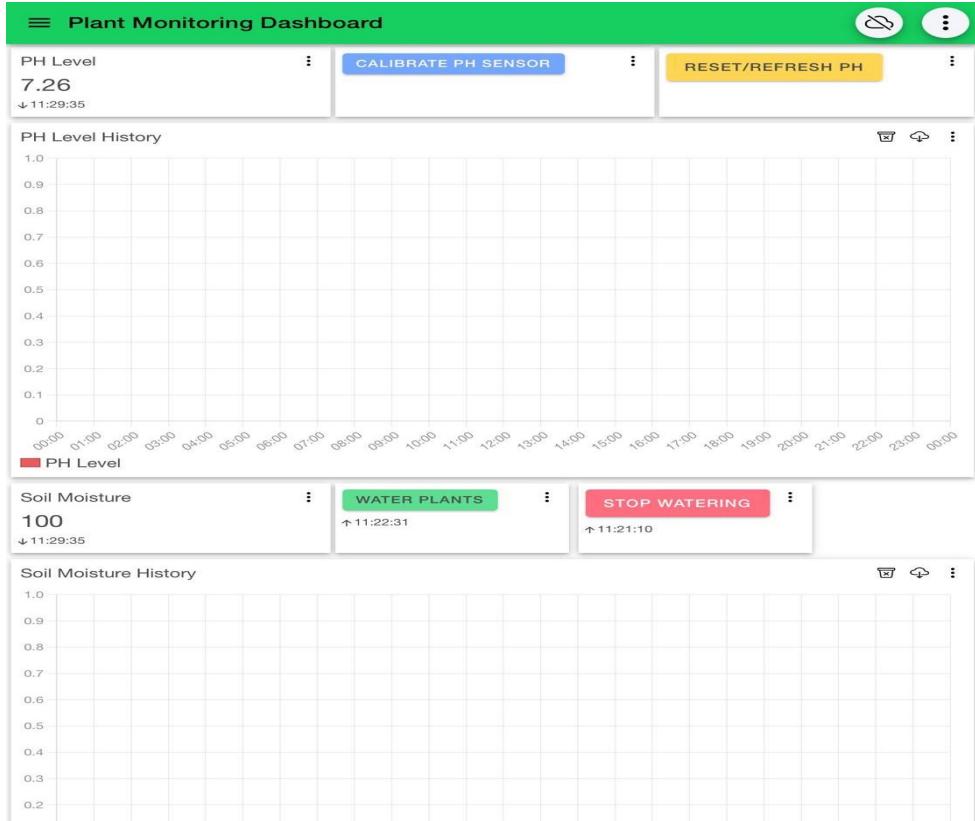
MQTT Enablers
Publish and Subscribe
Topic (PHTopic and
MoistureTopic)

IP Address
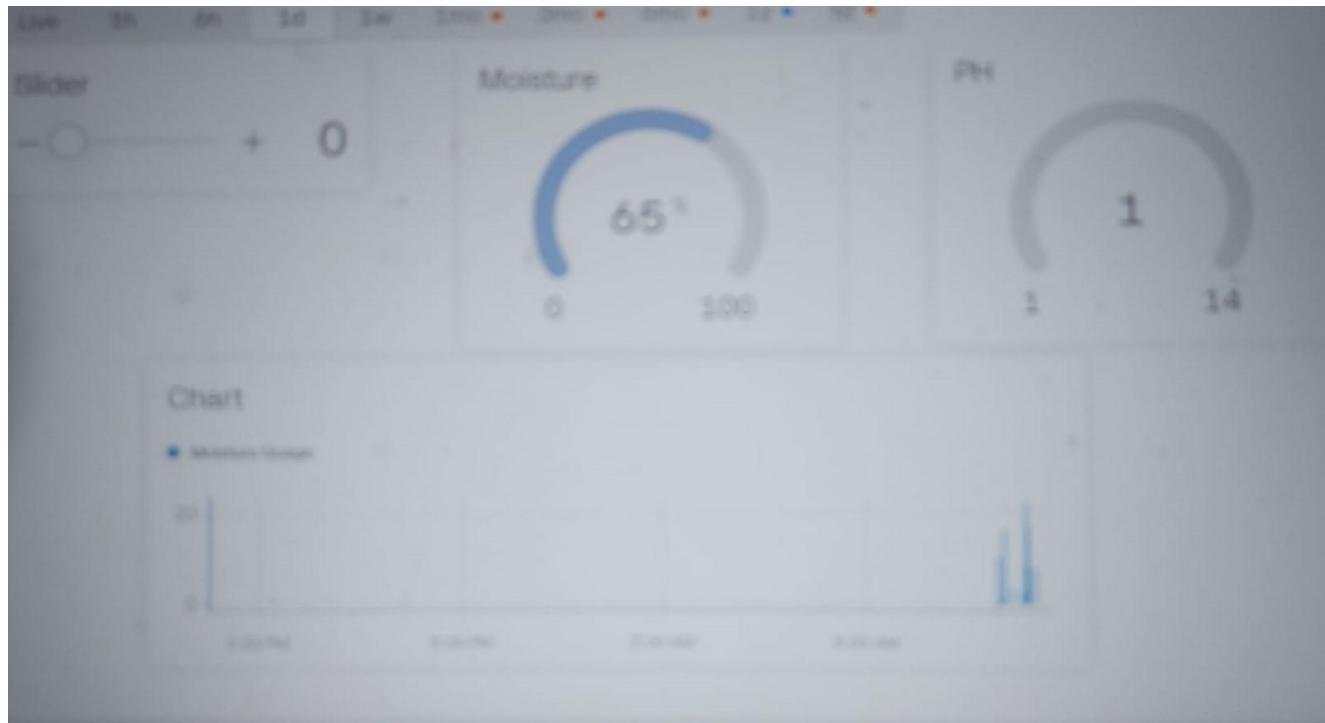
Wifi

Setting up the Dashboard

Monitoring and Control

Cloud Services(Blynk)

Conclusion