Team Weekly Report

Team: Plantir - PlantHub
Week: 6
Members: Caden Miller, Kevin Johnson, Alex Garrido, Mihir Gonsalves

Status Report

We are in a good spot, we have a web app that demonstrates functionality as a place for data to be sent to, viewed at, and stored for a long time period. We also established a communication channel using MQTT on the ESP32 in order to someday send data to the Rails app. In terms of hardware, we have wired a light sensor to our ESP32 to demonstrate our ability to use the onboard ADC's. Also, we have begun working on a rough draft first model of the self-watering pot and have planted 216 seeds for possible growing and otherwise.

Current Status

1. What did the team work on this past week?

Task	Task Lead	Status	Notes
Seed Germination	Caden	Done	
Rails website 'demo'	Kevin	In progress	
ESP32 MQTT	Caden	In progress	
CAD Design	Mihir	In progress	
Light Sensor connection	Alex	Done	

2. What feedback has the team received?

From Whom	Feedback	Next Steps
Mike Arnold (Ag Advisor)	Simply replied to our email and gave the contact info of other colleagues that can help.	Reached out regarding sensors needed to cover our bases and try to get a database for plant fertilizer info.
Joseph Johnson (Ag Advisor)		

Kathryn Grier (Ag Advisor)		

3. Are any resources needed? If so, what?

What are your plans for this next week?

Task	Task Lead	Notes
Connecting Rails and ESP32 via MQTT	Alex	
Finalizing CAD design for self-watering pot	Mihir	
Connect all sensors to the ESP32	Alex	
Further work on the website for better navigation and viewing of data		Kind of reliant on relaying sensor data, but it is also an artificially seeded database using Faker
Create working water pump		
Organize our Agile development	Alex/Caden	