Team Weekly Report

Team: PlantHub
Week: 4
Members: Caden Miller, Kevin Johnson, Alex Garrido, Mihir Gonsalves

Status Report

As this is the fourth week of class our focus has been on ideation and planning. We have decided on building a system with three separate hardware systems/modules to be connected to a web app with a consistent UI for easy management. We want to center each of the hardware systems around a low power, small, Wi-Fi capable microcontroller to meet the size and power restraints of our systems. Furthermore, we have found sensors for temperature, moisture, light, and nutrient levels for the system. These are all standard with some variation based on whether the system will be utilizing soil or water (only the hydroponic garden). The goals of this week are to create a hardware diagram and finalize the components necessary in order to try to abstract the design to work with the various modules. Furthermore, we look to plan the interface between this standard hardware system with the database for easy access from the web app. Lastly, further planning possibly including a camera and determining the watering mechanism in the self-watering pot are goals for this week.

Current Status

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

Task	Task Lead	Status	Notes
Ideation	Caden	Completed	Talked with Ritchey about our idea and clarified its novelty
Lo-fi diagrams	Mihir	Completed	Created lo-fi wireframe diagrams for web application and hardware
Hardware Research	Alejandro	Completed	Found a good amount of options
Project Report	All	Ongoing	All parts required to be complete are done; however, the entire report needs more time

2. What feedback has the team received?

From Whom	Feedback	Next Steps
Other classmates	Possibly add lights to the self -watering pot.	Research into if it is possible and feasible to add lights.
Other classmates	Possibly add a camera to the self -watering pot.	Research into if it is possible and feasible to add a camera sleekly.
Other classmates	Look into connecting smart home APIs.	For now this will be marked as a stretch goal.

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

Nothing from the professor but we need to create a hardware diagram and order the hardware.

Plans for Next Week

What are your plans for this next week?

Task	Task Lead	Notes
Pick Hardware	Alex	
Create Hardware Diagram	Caden	Needs to be looked over by teammates
Order Hardware	Caden	
Tinker with Hardware	Mihir	
Begin Repo for Software/Hardware	Kevin	
Home Depot?	Everyone	Maybe a trip to home depot to get plant stuff