Weekly Progress Report: #2

2 February, 2023

Project: C.E.L.P. Gardens

Team: Cole Moore, Eric Messer, Luke Barber, Philip Entrekin

Work Completed

The team has furthermore discussed design and hardware specifications for the module. The team has assigned individual slide responsibilities for each member for the proposal presentation. The hardware team has confirmed parts for the design list such as the moisture sensor and casing.

Current Completed Deliverables:
- Team Bio's, 1/15/23
- Project Summary 1/24/23
- Weekly Progress Report #1 1/26/23

Work in Progress

Most of or all of the hardware list will be finalized by the proposal presentation. The development board should be the last decision to be made for the hardware. The team is working to finish the proposal presentation by mid next-week.

Milestones We are Working Towards
- Having a complete component list for the project
- Getting the final pieces of hardware so that software development may begin
- Project Proposal Presentation

Challenges and Changes

The development board is still up for question. The final decision will be decided by the team with most of the decision coming from the hardware and software team. The choice of the development board will be based on compatibility with bluetooth/Wi-Fi modules.

Project Cost

Bill of Materials

C.E.L.P. Gardens	Part Number	Part Description	Retail Price	Vendor
Hardware	WRL-18036	ESP32-C3 Mini Development Board	$8.95	Sparkfun
	EK1940	Capacitive Moisture Sensor	$8.68	Amazon
	SHT40-AD1B	Humidity and Temp Sensor	$2.90	Mouser
	B4252PLVP–G1 B0001X3U1930	Light Sensor	$0.60	Mouser
	B07F3Q784X	Plastic Electrical Project Case	$7.99	Amazon
Total			**$29.12**	

These components are mostly the final choice for this project. The Development board may be swapped out for an Arduino. Any other features added to the project will have new parts added to the budget list. Any software used for testing and/or development will be free.

Team Member Hours
As of 2/02/23, the team has worked 21.5 hours on this project this week. This is a cumulative of 58 total hours invested in the C.E.L.P. Gardens project.

		Mon, Jan 30	Tue, Jan 31	Wed, Feb 01	Thu, Feb 02	Fri, Feb 03	Sat, Feb 04	Sun, Feb 05	Total	Year Total
Week 4	Cole Moore	2.5		3					5.5	12.5
	Eric Messer	3		2	0.5				5.5	15
	Luke Barber	2.5		1.5	0.5				4.5	15.5
	Philip Entrekin	3	1	2					6	15

Group Yearly Total	58