# Meeting Minutes: Wednesday, January 13, 2016

Team: grEEn

Team Leader: Bridget

Note Taker: Kara

Present: David, Dr. Schafer

* This was the first meeting so there was no progress to be discussed. Instead we discussed the HLD feedback.
	+ We decided to plan on using the ESP8266 without an additional microcontroller
		- After experimenting with the ESP8266 dev kit we should know more about the capabilities
		- We will design a board that includes all out sensors and powering devices in addition to the ESP8266
	+ We have to look into power consumption and energy density to determine our power supply
		- We decided solar charging would not be the best option because of our indoor application
* We spent the second half of the meeting discussing open questions
	+ Information Updating
		- We decided on periodic updates
		- ~ 4-6 per day
	+ Inside vs Outside
		- We decided that an indoor use is the most practical
	+ MQTT is designed for IOT
		- MQTT publish/subscribe
		- Read the latest published information when the app asks for an update
	+ How to input SSID and Password
		- We discussed using Bluetooth as an alternative to serial
			* Excessive hardware that is only being used one time
		- We decided to go with serial input
			* More simple, eliminates excessive hardware
			* This also allows for potential recharging capabilities
	+ Range Testing
		- We plan to experiment with the ESP8266 dev kit
			* Test range
	+ Moisture Detector
		- We decided to get a commercial available moisture detector
			* Order it
			* When it arrives we will begin to experiment with amplifier circuits to amplify the output signal
* Lastly we discussed what had to be done by next week’s meeting
	+ Assign roles for each team member
	+ Choose subsystems and create a rough timeline
	+ Order components
		- Moisture Detector
	+ Get breakout room and cart key
	+ iOS vs Android Studio
		- Research MQTT libraries
	+ Experiment with ESP8266 Dev Kit