# 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