

## **greenerthumb Requirements**

1. Each hardware component must be optional.
2. Sense:
  - a. Air temperature and humidity.
  - b. Soil moisture.
3. Publish sensed data on a connected network.
4. Log sensed data from the network.
5. Plot sensed data from the network.

## **Future Requirements**

- Sense soil pH.
- Push a notification to a connected phone when the soil moisture from the network is below a user set threshold.
- Water plants when the soil moisture from the network is below the user set threshold.
- Make sensors wireless.
- Provided IC packages for sensors.
- Monitor networks.
- Allow plots to be saved.
- Remove bad sensed data.
- Provide a web interface.
- Discover addresses and ports automatically.
- Provide installation tools.
- Implement a log processor.
- Clean error handling.
- Improve documentation.
- Improve tests.
- Automate reconnecting in **bullhorn**.