Blue (Technical Requirements)

- Ability to connect to WiFi
- Needs to include a rechargeable battery
- needs to have two serial sensors
- Long battery life
- No use of daughter boards
- Ability to move from location to location
- 3.3V power rail
- At least one actuator
- Can still work if not connected to the internet
- Professionally printed PCB
- Use of surface mount components
- Strong connectivity
- Safe to handle without being shocked
- No sharp edges
- need to provide coding and documentation for any scriots
- Uses a microcontroller
- Use of UART, SPI, and I^2C
- Won't overheat components while running

Green (Functional Requirements)

- Simple set up
- Reads temperature indoor and outdoor
- Accurate measurements
- Doesn't need constant code tweaks once introduced to field
- Needs to collect and read data in less than 2 minutes
- Replacement parts should be easy and inexpensive
- Possible ability to forecast
- Needs a lifespan of 2-3 years
- Needs to be made at of inexpensive materials
- Possibility to have solar power
- Collects data in real time
- Weather resistant
- Possible Bluetooth connectivity
- Able to connect to a computer
- Easy to read display
- Only needs a single person to operate
- easy to repair with basic knowledge
- Needs to function in multiple environments
- Easy to set up

Yellow (Usability/Other Requirements)

- Easy to reconfigure
- 8 Bit or 16 Bit
- Ability to measure two different weather components
- Ability to change parts that die or break
- Safe amperage that won't cause harm
- Does not drop signal at random
- Results are easy to find and read
- Clear instructions for use
- Use of a switching voltage regulator
- Low price
- Less than 100mm by 100mm board
- Not a chocking hazard to young children
- Completely closed off
- needs to have appropriate storage
- No RC servos
- Light enough to easily carry
- Needs to have a replaceable rechargeable battery
- Able to run on it's own power
- Needs to be visually appealing
- needs to have appropriate storage
- Four different sub systems
- Someone with little coding or electronic knowledge can run product and receive data
- All systems are able to work without the need to change code or design