**FEEDBACK**

"Doesn't quite look like the right thing (Stories on the Functionality Schedule page). Stories should capture things from a user's perspective. E.g., I am a homeowner. I want to know if I closed my garage door and if my cat is in the house. The system lets me do this through..."

**AFTER FEEDBACK**

1. I am a homeowner. I want to know when I accidentally leave the stove on. This system notifies me if the temperature in my kitchen is abnormally high through an SMS notification.

2. I am an employer. I want to see if employees are sneaking in prohibited areas during clock hours. This system allows me to quickly deploy and watch different areas inconspicuously.

3. I am a business owner. I want to carefully monitor the alcohol section for theft in my store. This system allows me to multitask and become aware of possible thieves through an app and SMS.

4. I am a researcher. I want to monitor the wind activity around multiple areas in a short amount of time. This system makes it easy to setup and measure changes in the environment from a distance.

5. I am a warden. I want to watch suspicious areas and weakpoints for large amounts of prisoner activity, without them noticing. This system notifies me when prisoner activity is abnormally higher than usual on specific days of the week or in specific areas on the prison.

6. I am a police officer. I want to protect our rear when we are clearing a room. This system can alert me to danger after a quick deployment.

7. I am a pet owner. I want to know when my dog is showing unusual activity near my door, so that I may let it out to relieve itself. This system can alert me when my dog needs to go outside through an app or SMS.

8. I am a carpenter. I want to determine what parts of a house in construction are vulnerable to humidity changes. This system lets me quickly measure the humidity differences across the house using an app.

**BEFORE FEEDBACK**

Abstract:

This will be a basic home notification system where users can monitor their home from remote location. These will include programmable devices such as a temperature sensor and motion sensor to provide additional security to homes and appliances. It will detect intrusions and monitor sensor information which users will be notified of.

There will be a user system where information will be updated in real time asynchronously. Each device will be connected via network and will transmit information to mobile app. Users will have a device management to configure its settings through the mobile app allowing them to change sensor trigger settings, arm and disarm, add modules as user's needs change and check battery levels for each module.

**Stories:**

a. Ensure sensors are operational and there is no faulty hardware.

b. Arduino prototype, this will include setting up the sensors and battery packs. Have sensor values set up and a way to check the battery levels of the power pack.

c. Run tests ensuring that the Arduino is able to communicate with the Pi via our transceiver module, and pass through the sensor information after establishing the connection.

d. Pi will be our main unit and this means the Pi will be interpreting the data of sensors, enabling them, and sending alerts in cases of triggers.

e. Pi seperates info into battery life, sensor readings (in correct units), info is now "readable info", this will be the information that the user sees when they are using the mobile app.

f. Pi pulls SMS trigger preferences from Phone app via Internet, through mobile app user will set these preferences and thresholds that they desire, some will have fixed values that will be tested before hand to reduce user error.

g. Pi decides to send SMS, or push notifications in app- depending on trigger preference via Internet.

h. Pi relays readable info to Phone app via Internet, this info can be changed, (ex. updated less likely to app to increase battery life of modules but keep being read by Pi to ensure there isn't a trigger).

i. Mobile app will display all menu options, all communication will be done through this interface, only exception will be if SMS trigger notifications are enabled.

j. Mobile app retrieves readable info from Pi and displayed in an easy to read and find manner.

k. Mobile app displays received readable info from Pi, separated by each module.

l. Mobile app can be used to update SMS trigger preferences.

m. Mobile app can send updated preferences to Pi via Internet.

n. Mobile app has nice icons / GUI.

**Iterations**

**1:** a, b

**2:** c

**3:** d, e

**4:** f, g

**5:** h

**6:** i

**7:** j, k

**8:** l, m

**9:** n