Sprint 3 Plan

Product: Tiny House
Team: Sensor Network Team
Release: Sensor Network Completion
Release Date: 11/15/2015
Revision #4
Revision Date: 11/30/2015

Goals:
1. Have the sensors push data to the database so the front end dashboard can call data from the database.
2. Implement dummy data into the database in the meantime.

Task List (by user story):

User Story 1: "As a user, I want an improved web application dashboard that shows sample or actual data of particular dates"
Tasks:
1. Create "substitute" endpoints in PHP (1 hour)
2. Create PHP file to interact with database (3 hours)
3. Decide PHP endpoints (1 hour)
4. Complete link between web application and database (3 hours)
5. Clean up front end (3 hours)
6. Fix type bug (2 hour)
7. Adjust margin between charts and put data type picture (1 hour)
Total: 14 hours

User Story 2: "As a user, I want to setup the XBees so that I can access data remotely"
Tasks:
1. Wire XBees to USART on 2 Arduino boards and get Arduinos communicating with control board (10 hours)
2. Figure out Memory Mapped IO for embedded Linux system(4 hours)
3. Send data from microcontroller to linux server (2 hours)
Total: 16 hours

User Story 3: "As a user, I would like the data collected from my appliances to be stored into a database so that data may be looked up processed data by date"
Tasks:

1. Implement equations to simulate data to place on a chart to be put into database (1 hour)
2. Code a method of parsing data from the database (4 hours)
3. Implement a system of feeding the modeled data to the web application (2 hours)

Total: 7 hours

Team Roles:

- Joseph Ou: Product Owner, Hardware Developer
- Sean Ashe: Backend Developer, Frontend Developer
- Sargis Yonan: Hardware Developer
- Shivam Dave: Frontend Developer, Backend Developer
- Reza Barghi: Scrum Master, Backend Developer, Frontend Developer

Initial Task Assignment:

- Joseph: User Story 2, Task 1 & 2
- Sean: User Story 3, All Tasks
- Sargis: User Story 2, Task 1 & 2
- Shivam: User Story 1, All Tasks
- Reza: User Story 3, All Tasks

Burnup Chart: In Baskin 316
Scrum Board: In Baskin 316

Scrum Meeting Times:
Tuesday, November 17
Thursday: November 19
Tuesday: November 24
Tuesday: November 26