

Sprint #3 Report

Product: Tiny House

Team: Sensor Network team

Last Modified: 12/01/15

Revision #1

Summary of Sprint #3 User Stories:

- **User Story 1:** “As a user, I want an improved web application dashboard that shows sample or actual data of particular dates”
 - **Task 1:** Create “substitute” endpoints in PHP
 - **Task 2:** Create PHP file to interact with database
 - **Task 3:** Decide PHP endpoints
 - **Task 4:** Complete link between web application and database
 - **Task 5:** Clean up front end
 - **Task 6:** Fix type bug
 - **Task 7:** Adjust margin between charts and put data type picture
- **User Story 2:** “As a user, I want to setup the XBees so that I can access data remotely”
 - **Task 1:** Wire XBees to USART on 2 Arduino boards and get Arduinos communicating with control board
 - **Task 2:** Figure out Memory Mapped IO for embedded Linux system
 - **Task 3:** Send data from microcontroller to linux server
- **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”
 - **Task 1:** Implement equations to simulate data to place on a chart to be put into database
 - **Task 2:** Code a method of parsing data from the database
 - **Task 3:** Implement a system of feeding the modeled data to the web application

Actions to stop doing:

- Stop using SQLAlchemy

Actions to start doing:

- Plan for next stage of project for next quarter

Actions to keep doing:

- Continue working on code for Linux control board

Work Completed:

- User Story 1: all tasks
- User Story 2: task 1
- User Story 3: task 1, 2

Work Not Completed:

- User Story 2: task 2, 3
- User Story 3: task 3

Work Completion Rate:

- Total number of user stories completed: 10
- Total number of estimated ideal work hours completed: 29
- Total number of days: 19