Sprint #2 Report

Product: Tiny House
Team: Sensor Network Team
Last Modified: 11/7/2015

Summary of Sprint #2 User Stories:

- **User Story 1:** "As a user, I want an improved web application dashboard that shows sample or actual data."
    - **Task 1:** Prepare web application for incoming data through javascript and html/css
    - **Task 2:** Design basic layout and "flow" of the web application
    - **Task 3:** Establish how database and hardware will communicate with each other, and what kind of data will be fed into the database
    - **Task 4:** Create link between web application and database
    - **Task 5:** Design database schema
    - **Task 6:** Configure and customize VM server
- **User Story 2:** "As a user, I want actual sensor data to be coming from tested or implemented sensors"
    - **Task 1:** Deploy functional sensors that successfully read and store environmental data
    - **Task 2:** Implement code to operate ds18b20 temperature sensor
    - **Task 3:** Implement state machine that will run inside Arduino Mega microcontroller and handle the sending and receiving of data from sensors
- **User Story 3:** "As a user, I want a basic understanding of what data is coming from my house and why it is important."
    - **Task 1:** Code a method of parsing data from the database
    - **Task 2:** Determine ways to model the data that has been parsed from the database
    - **Task 3:** Implement a system of feeding the modeled data to the web application

Actions to stop doing:

- Establish how database and hardware will communicate with each other, and what kind of data will be fed into the database

Actions to start doing:

- Learn and use PHP for connecting database and web application

Actions to keep doing:

- Keep working on the major components (web application, sensor network, database, modeling system)

Work Completed:

- User Story 1: task 2, 5, 6
- User Story 2: task 1, 2, 3
- User Story 3: task 2

Work Not Completed:

- User Story 1: task 1, 3, 4
- User Story 2:
- User Story 3: task 1, 3

Work Completion Rate:

- Total number of user stories completed: 7
- Total number of estimated ideal work hours completed: 35
- Total number of days: 19