Sprint #1 Report

Product: Tiny House
Team: Sensor Network Team
Date: 10/21/2015
Last Modified: 10/22/2015

Summary of Sprint #1 User Stories:

- **User Story 1:** "As a user i want to be able to be able to view house data (possibly through a sample dashboard using actual or sample data)." (Sargis and Joseph)
    - **Task 1:** Hold discussion with project leader at UCSC and IDEASS team and brainstorm realistic requirements of what metrics we want to detect
    - **Task 2:** Brainstorm with the team and figure out the hardware required to perform measurements based on the metrics established
    - **Task 3:** Become familiar with Arduino Mega2560; going to be using similar technologies to port past processing data to C/C++
    - **Task 4:** Become familiar with sensor technologies used and current infrastructure already implemented by previous researchers
- **User Story 2:** "As a user, I want to view a basic web application dashboard to get an idea of how my house data will be displayed." (Sean, Majid (Reza), and Shivam)
    - **Task 1**: Understand programming languages used and use prior dashboard
    - **Task 2:** Create basic mockup of web app
    - **Task 3:** Understand existing GreenWharf API dashboard developed from previous research done at UCSC
    - **Task 4:** Research SQLAlchemy and Python 2.7 used to make up the object-relational mapper
    - **Task 5:** Research how object relational mapper will interact with the MySQL database
    - **Task 6:** Learn to access the data such as handling the objects and how they may be properly used and implemented into the front end interface
    - **Task 7:** Research REST API that uses PHP/Python to attain data

Actions to stop doing:

- Brainstorm as a team to determine the hardware needed to perform our measurements.
    - This is no longer necessary, because the project leaders have provided us with the appropriate hardware.

Actions to start doing:

- Start documenting research done from first sprint and incorporate documentation tasks into stories

        - Documentation will be key throughout the project and after the quarter
- Apply research done in Sprint 1
    - Sprint 1 was made up of primarily research tools being applied in Sprint 2, tools will now be applied to create the product
- Model and revise user stories to be centered around the user
    - User stories prior to this did not emphasize the user and more were for the developers.
    - We revised our Release Plan user stories and our Sprint 1 user stories (in this report) to be user based

Actions to keep doing:

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

Work completed:

- User Story 1: task 1, 3, 4
- User Story 2: task 1, 2, 3, 4, 5

Work not completed:

- User Story 1: task 2 (discontinued)
- User Story 2: task 6, 7

Work completion rate:

- Total number of user stories completed: 1
- Total number of estimated ideal work hours completed: 35
- Total number of days: 17