Sprint 3 Report
Product: Smart Irrigation Backend
Date: November 30, 2015

Actions to Stop Doing

Stop working on anything new and start polishing what we have

Now that the sprint has come to a finish, we need to stop adding any new user stories to our project and start polishing our code and files, and make sure that user stories that we do have are implemented the best that they can be. This involves on mutually agreeing that each piece of work can acceptably turned in and demoed.

Actions to Start Doing

Start creating and revising documentation on all our work so that it is ready to turn it

Now that the sprint has ended, we need to create documentation for all our work such as for our API, python database scripts, harness and unit testing code, and any other work that contributed to our project. This is so we can deem our project complete and allow the next person or team to easily pick up from where we left off.

Actions to Continue Doing

Modify our project work to accommodate the use of real-time data sensors

Now that our final sprint has ended, there's not much else could do. However, if it were possible to finish up with our work, we would like to coordinate with the engineering team that recently decided to be part of the smart irrigation project. They will be in charge of the data sensors and will figure out why they malfunctioned. If we were still continuing on, then we could finally read in real-time data sensors values instead of using a python script that simulates the data.

Work Completed/Not Completed

Work completed:

1. As a developer, I want to integrate our API work with the frontend.
    a. The frontend has been successful in using our API and receiving the information the information needed from our database.
2. As an administrator, I want to implement security into our API so that only the frontend has access to the information on the database.
    a. We have added extra security to our user database table where passwords are salted, and whenever an API command is called, it asks for username and password.
3. As a frontend developer, I would like a watering threshold window included into the database so that I can build a graph that will show the end user how much water is being used.
    a. We now have in our API a call that will store watering information into a table in the database and also display watering information through a given data range.
4. As a developer, I want to generate a simulated stream of data to be tested for rewritten pi code.

    a. We now have scripts that generate a simulated stream of data just like how the data sensors worked at the site.

Work not completed:

1. As an administrator, I want to transfer the database form AWS to a SOE server.
    a. We were not able to get started on this user story since, it had the lowest priority out of all other user stories.
2. As a developer, I want to use the API to specify weather statistics to use.
    a. We ran out of time in having this completed but we were able to get weather data into our database.

Work Completion Rate:

Sprint Goals: 83%
Total Project: 89%