

## Sprint 2 Plan

Product Name : Smart-Irrigation Backend

Team Name : wubadubdubs

Sprint Completion Date : November 7th 2015

Revision Number 1, October 23th 2015

### Goal :

The goal of this sprint is to get core systems such as an API to pass data to the frontend team and a dummy data generator to use while the other teams in the project get the hardware worked out. We will also work on making the system expandable, making it easier to add additional equipment in the future.

### Task Listing Organized by User Story

1.) 2 pts: As a developer, I want to be able to generate dummy data

Task 1 : ½ pt: Determine the ranges of data the sensors produce

Task 2 : ½ pt: Generate data within appropriate ranges

Task 3 : 1 pt: Output data to CSV file

2.) 8 pts: As an administrator, I want the system to be expandable so I can easily add additional sensors.

Task 1 : 1 pt: Read config file to determine which values need to be parsed from sensor readings

Task 2 : 3 pts: Rework the script that parses readings and pushes them to database so that it uses the fields specified in the config file

Task 3 : 3 pts: Write code to add additional fields to the database table if the config file specifies fields that do not yet exist

Task 4 : 1 pt: Rework database retrieval script to pull fields specified in config file

3.) 8 pts: As a frontend developer, I want to be able to access data through an API.

Task 1 : 2 pts: Learn the basics of how to build an API

Task 2 : 1 pt: Develop a bare-bones API for testing

Task 3 : 2 pts: Learn how to pull data from external MySQL server on API server

Task 4 : 3 pts: Write code to allow basic statistical data such as mean/median to be pulled from API call

4.) 3 pts: As a user, I want the system to include weather data.

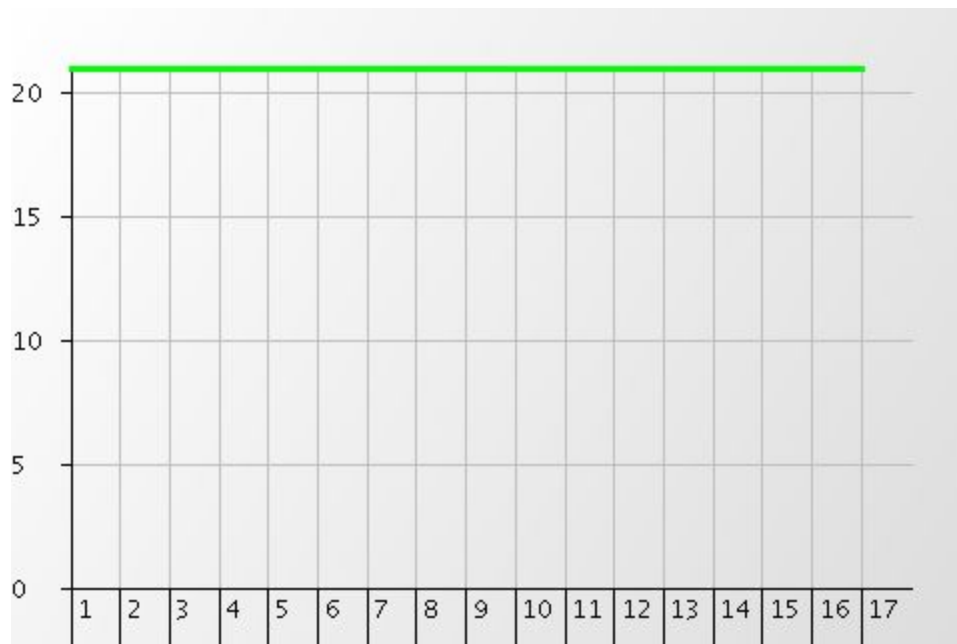
Task 1 : 2 pts: Write code to pull weather data from a public weather API

Task 2 : 1 pts: Create a database table to store weather data, add a field to main table to point to an entry in this weather table

### Team Roles :

Theodore Handleman : Product Owner, Developer  
Ryan Connors : Developer, QA  
Coy Humphrey : Scrum Master, Developer  
Ernesto Hernandez : Developer, QA  
Ryan Fulscher : Developer, QA.

### Initial Burnup Chart



### Initial Scrum Board

Visible in Jack Baskin room 316.

User Story	Tasks	ToDo	InPro	Done
User Story 1	see above	see above		
User Story 2	see above	see above		
User Story 3	see above	see above		

### Scrum Times

All at Baskin 316.

Monday @ 5:30pm

Wednesday @ 12:30pm

Friday @ 12:30pm