

Alesandra Roger
Alex Mitchell
Rashad Kayed
Yugraj Singh
Evan Hughes
Ian Hamilton

Smart Irrigation Project Sprint Plan 3

Product Name: Smart Irrigation Project (SIP)

Team Name: iSlugs

Sprint Name: System Setup and Delegation

Sprint Completion Date: Nov. 12, 2014

Revision Number: 1

Revision Date: Dec. 10, 2014

Goal: Setting up a database that stores the temperature, timestamp, and saturation of the soil and setting up the xbee to allow communication between the two arduinos.

User stories and tasks:

1. **(2)** As a tester, I need to be able to run software and hardware tests on the system so that the final product is stable and reliable.
 - 1.1. Unit testing of the xbee to see if the correct data is being sent to the database. (2 hours)
 - 1.2. Make sure the data is being transported and received properly between the two arduinos. (Sensors should be reading reasonable data). (2 hours)
2. **(8)** As a farmer, I need the system to run without my help so the database can be populated with the appropriate soil moisture levels, temperature, and timestamp.
 - 2.1. Setting up the appropriate data structure to hold our temperature, soil moisture level, and timestamp. (1 hour)
 - 2.2. Figure out how to get a timestamp using arduino uno library. (30 mins)
3. **(5)** As a farmer, I want the system to be wireless so I can be out in the field without tripping over wires.
 - 3.1. Setting up xbee and arduino interface. (5-8 hours)

Team Roles:

Alesandra Roger: software developer
Rashad Kayed: Product Owner
Alex Mitchell: software developer
Ian Hamilton: software developer, hardware guy
Yugraj Singh: hardware guy
Evan Hughes: hardware guy, xbee researcher

Initial Task Assignment:

Alesandra Roger: coding base architecture and creating database to store appropriate data.
Alex Mitchell: coding base architecture and creating database to store appropriate data.
Evan Hughes: Scrum Master and setting up xbee to allow arduinos to communicate.
Yugraj Singh: Creating database to store appropriate data.
Ian Hamilton: Creating database to store appropriate data.
Rashad Kayed: Setting up xbee to allow arduinos to communicate.

Burnup Chart: See github repository for file.

Scrum Board: See github repository for file.

Scrum Times: Mon/Wed/Friday 11:30 am.