Release Plan

SEADS Microgrid Project - Backend/DB

Release Name: Sprint 2
Release Date: December 12, 2014
Revision Number: 1
Revision Date: Monday November 03, 2014

High Level Goals

1. **Sprint 1**
    a. Database software selection and schema migration, replicate existing MySQL functionality.
    b. Appliance data signature collection and familiarization with current database implementation.
2. **Sprint 2**
    a. Finish implementing API and data landing zone.
    b. Implement a process to create data signatures from raw data.
3. **Sprint 3**
    a. Add the ability to search by signatures.

Sprint 2 Goals

1. Reimplement schema in new database.
2. Reimplement data endpoint in a concurrent socket server written in Go for the new database.
3. Write Python API to provide better data retrieval for the GUI developers.
4. Creating unique data signatures.

Sprint 1 User Stories

As a GUI developer, I want to query the database for signals within a certain range.

Sprint 2 User Stories

As a GUI developer, I want to query the database for signals within a certain range.
As a search developer, I want to create unique signatures for signals to store in a database.

Sprint 3 User Stories

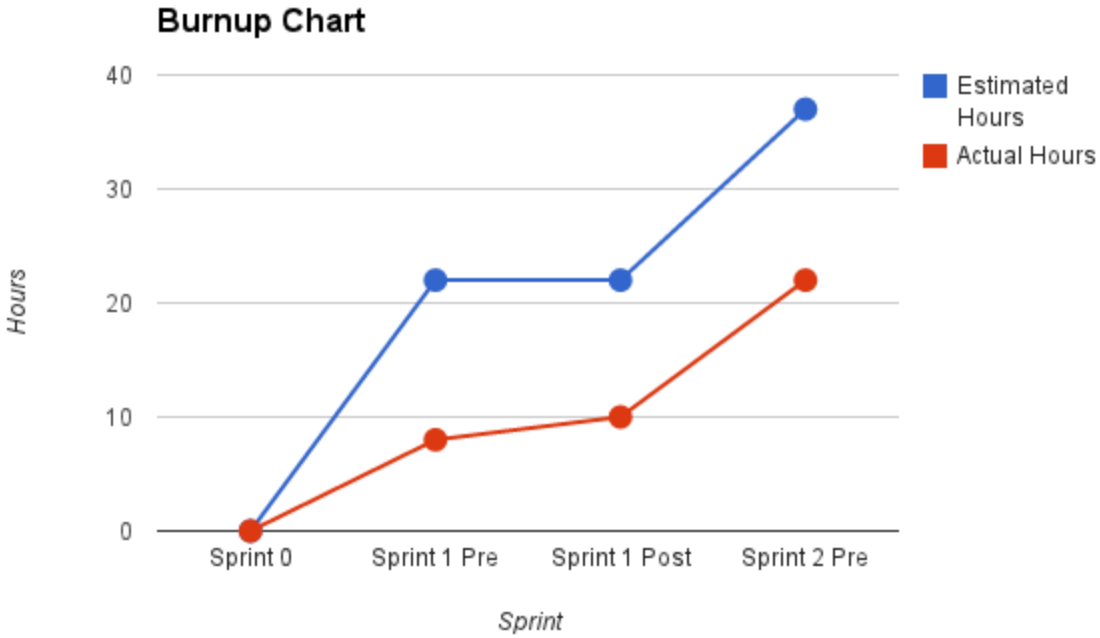
As a GUI developer, I want to query the database for data by appliance type.

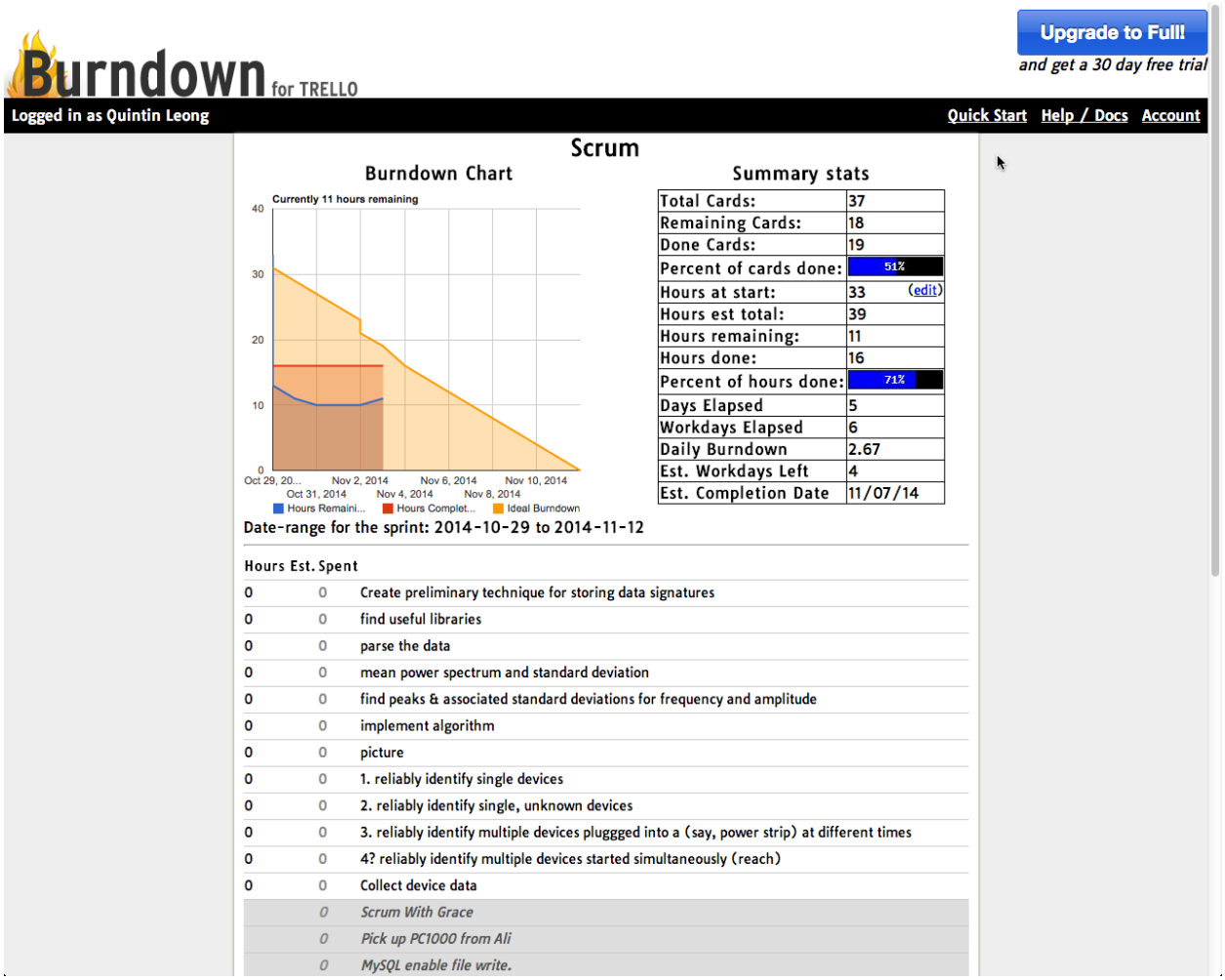
User Stories for Release

Sprint	User story	Story points
1	As a GUI developer, I want to query the database for signals within a certain range.	21
2	As a GUI developer, I want to query the database for signals within a certain range.	21
3	As a GUI developer, I want to query the database for data by appliance type.	13

Product Backlog

1. Caching server to speed up queries.
2. Change database schema to not store every different type of data in the same column.
3. Rewrite SEAD plug firmware
4. Create algorithm to create data signature from raw data.


Burnup Chart
40
30
20
10
0
Hours
Sprint 0
Sprint 1 Pre
Sprint 1 Post
Sprint 2 Pre
Sprint
Estimated Hours
Actual Hours



Full scrum board at [http://www.sead.systems/wiki/index.php/DB Trello Scrum Board](http://www.sead.systems/wiki/index.php/DB_Trello_Scrum_Board)