

Sprint 1 Plan - Check Up Health Care - Start Date: 10/20/2019

GOAL) In Sprint 1, we are going to collect procedure charges across hospitals in the U.S. We will modify the data (in CSV files) to our standard and insert it into our SQLite3 database. It will be a relational database via the universal DRG (Diagnosis-Related-Group) code displayed at each. With the collection of csvs, we will modify them in a similar format so a python script can go through and insert all the data into our SQLite3 database.

USER STORY 1)

As a developer, I want to collect publicly available hospital data in a relational manner

- TASK 1) Download CSVs that have not already been downloaded (by checking our excel sheet on Drive) and store the unmodified version in our directory (4)
- TASK 2) Use Excel (or another program) to modify the format to match with the other modified ones -> save as CSVs in /_modified (2)
 - NOTE: leave unmodified version in /data/

Modified CSV Format: (row 1, col 1: name, row 1, col2: year)
(row 2-n, col 1: DRG, row 2-n, col2: avg_charge)

Stanford Hospital	2018
1	\$100,000
2	\$250,000
..	..

- TASK 3) Make Unit Tests for CSV format to ensure data is corrected (3)

❖ **Total for User Story 1) 9 Hours**

USER STORY 2)

As a developer, I will be able to query a dataset in our SQLite3 database containing all the hospital procedure charges

- TASK 1) Create and format an SQLite3 database (2)
- TASK 2) Create a Python3 script that parses and inserts the name, year, procedures & their average charges for every downloaded CSV in our directory (6)

❖ **Total for User Story 2) 8 Hours**

USER STORY 3)

As a developer, I want to have a landing page for our application

- TASK 1) Set up landing page with ReactJS + Flask framework (5)

❖ **Total for User Story 3) 5 Hours**

USER STORY 4)

As a developer, I want to have access to a version controller

- TASK 1) Create a private GitHub repository for team members to access and branch (2)

❖ **Total for User Story 4) 2 Hours**

TEAM ROLES)

Kyle: SCRUM Master : Set up GitHub, Created Database, Primed ReactJS/Flask App

Rohan: Designed Landing Page UI/UX - Navbar, Procedure Search Bar, Routing

Jacob: Write a Python3 script that inserts the CSV data into the SQLite 3 Database

Sergey: Data Acquisition (CSV parsing), Unit Testing (Python3)

Shant: Data Acquisition (CSV parsing), SQLite3 Querying

Dagmawi: Data Acquisition (CSV parsing), File Organization and Documentation

INITIAL TASK ASSIGNMENTS)

Kyle :

User Story 1: Ensure data is relational

User Story 2: Ensure data can be stored in an SQLite3 database

User Story 3: Create a Flask (Backend) and ReactJS (Frontend) application

User Story 4: Invite team members to repository and ensure styling guidelines

Rohan :

User Story 3: Ensure Flask can serve our ReactJS frontend

Jacob :

User Story 1: Create a folder for all corrected CSVs to be stored

User Story 2: Install DB Browser for SQLite3

Sergey :

User Story 1: Download chargemasters containing DRG codes and their associated charges from hospital websites

User Story 2: Install DB Browser for SQLite3

Shant:

User Story 1: Create Google Sheet for us to mark down which hospitals have been collected

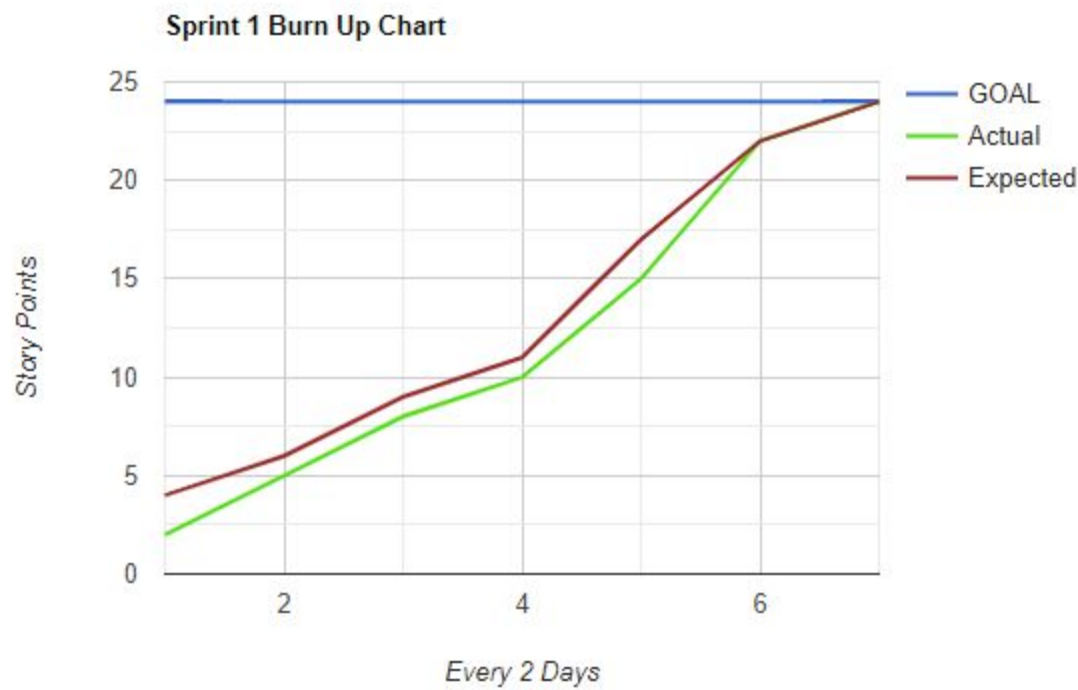
User Story 2: Install DB Browser for SQLite3, Create test queries

Dagmawi:

User Story 1: Download chargemasters containing DRG codes and their associated charges from hospital websites

User Story 2: Install DB Browser for SQLite3

BURN UP CHART)



SCRUM BOARD:

<https://scrumy.com/checkuphealthcare>

STORIES	To Do	In Progress	Verify	Done
SPRINT 1) As a developer, I want to collect publicly available hospital data in a relational manner	<div>Download Hospital Chagemaister CSVs</div> <div>Use Excel (or another program) to modify the data</div> <div>Make Unit Tests for CSV format to ensure data is correct</div>			
SPRINT 1) As a developer, I will be able to query a dataset in our SQLite3 database containing all the hospital procedure charges	<div>Create and format an SQLite3 database</div> <div>Create a Python3 script that parses and inserts data</div>			
SPRINT 1) As a developer, I want to have a landing page for our application	<div>Set up landing page with ReactJS and Flask</div> <div>Sketch designs for future iterations of the page</div>			
SPRINT 1) As a developer, I want to have access to a version controller	<div>Create GitHub repository and branches for each feature</div>			

SCRUM TIMES:

TA Meeting: Mondays, 4 - 4:30PM

Team Meetings: Everyday 7PM