Sprint 2 Plan - Check Up Health Care - Start Date: 10/27/2019

GOAL) In Sprint 2, we are going to merge and format the data we have collected thus far. With the addition of a collective dataset we will be able to analyze over 3,000 hospitals in the US. Also, we are going to build a simple search module that requests data from the database via Flask API. ChartJS will be configured with current dataset so users will be able to visualize the prices of the same procedure across multiple hospitals. This will allow users can experience a working viable solution to the current problem of being able to compare prices from hospital to hospital.

USER STORY 1)

As a developer, I want to link additional information with the current information in our database tables.

- TASK 1) Merge the individual hospital tables with the new data containing address and zip code which will be used for future sprints via Python3 (4)

- TASK 2) Append all merged CSVs to a master called Alldrg.csv which contains all the hospital data in the following format. (6)

Modified CSV Format:

Name	Address	ZIP	ProviderId	DRG	AverageCharge	Year
UCSF	#	#	1	1	10000.00	2017
...	#	#	1	#	#	#
UCSF	#	#	1	999	20000.00	2017
UCLA	#	#	2	1	12000.00	2017

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

- ❖ **Total for User Story 1) 13 Hours**

USER STORY 2)

As a user, I want to be able to search a procedure description or DRG code and select the hospitals that offer that procedure to view pricing

- TASK 1) Create Search and Chart display modules in ReactJS (4)

- TASK 2) Handle API requests in Flask, return query results based on parameters passed from the Search module (4)

- TASK 3) Set up routing so users can refresh their search (2)

- TASK 4) Create a dictionary for DRGs and their descriptions (2)

- ❖ **Total for User Story 2) 12 Hours**

USER STORY 3)

As a user, I want to see a minimalistic, single-page web application with a pleasant interface

- TASK 1) Create a Navbar for increased functionality and design (2)

- TASK 2) Modify CSS to style Bootstrap components to desired design (2)

- ❖ **Total for User Story 3) 4 Hours**

TEAM ROLES)

Kyle: Create the Search module Flask request queries with parameters, set up routing in React app, decided color scheme and design of landing page.

Rohan: Create Search and Chart display module in ReactJS, communicate with Kyle to handle API requests via module parameters.

Sergey: Create unit tests for the merged data set to ensure entries are formatted, Created a dictionary for every DRG and its description.

Jacob : **SCRUM Master** : Acquire and merge data sets via Microsoft Excel. Prepare master CSV in a format where it can be inserted sequentially row by row.

Shant - Update the Python3 script such that the additional data added to Alldrg.csv will be updated in the SQLite3 database.

Dagmawi - Prepare SQLite3 database for new table format, perform queries on dataset once it has been inserted.

INITIAL TASK ASSIGNMENTS)

Kyle :
> User Story 2: Ensure JSON format is being sent from Flask
> User Story 3: Install routing packages for ReactJS, learn how to use ChartJS

Rohan :
> User Story 2: Handle responses from Flask side to React side
> User Story 3: Install Bootstrap for ReactJS

Jacob :
> User Story 1: Review datasets and create a table for joined entries

Sergey :
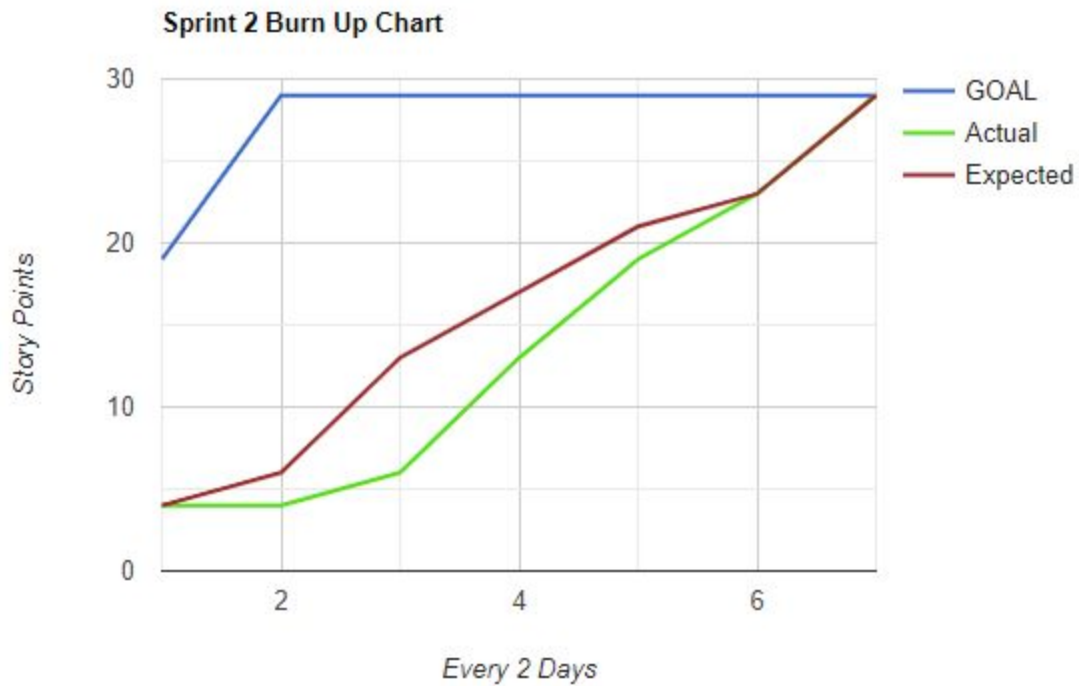> User Story 1: Prepare a python script to test the data before inserting

Shant:
> User Story 1: Collaborate with Jake to ensure proper column headers are being
> > inserted from the master CSV to the SQLite3 table

Dagmawi:
> User Story 1: Sketch desired table format

BURN UP CHART)

SCRUM BOARD:

https://scrumy.com/checkuphealthcare

SCRUM TIMES:

TA Meeting: Mondays, 4 - 4:30PM
Team Meetings: Everyday 7PM