

Sprint 3 Plan - Check Up Health Care - Start Date: 11/10/2019

GOAL) In Sprint 3, we are going to add location functionality to our application so that users can find which hospitals that are in our database are close to them. This will allow them to easily click and compare the prices amongst the nearby hospitals.

USER STORY 1)

As a user, I want to be able to compare the prices of hospitals near me

- TASK 1) Prime Google Maps API with dataset's address column (4)
- TASK 2) Link Google Maps API with ReactJS module, collecting current coordinates of user or by city name (4)
- TASK 3) Maintain design such that users can compare via location or by name lookup (2)

❖ **Total for User Story 1) 10 Hours**

USER STORY 2)

As a developer, I must store address coordinates in a local dictionary to prevent repetitive Google Maps conversions (which cost money)

- TASK 1) Iterate through every unique address in the database, and append a new column in the database containing the matching X,Y coordinates (5)

Name	Address	Coords	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 2) Create a dictionary for the Address:Coordinates so we do not have to convert the address to coordinate more than once (4)
- TASK 3) Update current unit test since a new column was added (1)

❖ Total for User Story 2) 10 Hours

TEAM ROLES)

Kyle : Prepare Flask API to handle location requests that return a dictionary of hospitals nearby

Rohan : Prepare ReactJS location module to send requests to the API containing current user location

Sergey : Update unit test to ensure X,Y coordinates are valid. Create a dictionary that contains every hospital address and its coordinates.

Jacob : Create GCP account to use Google Maps API. Prime python script with google token and user ID.

Shant : SCRUM Master : Work with Jake to convert all addresses into X,Y coordinates using a conversion function provided by the API.

Dagmawi : Modify insertion script to update the new column (coords).

INITIAL TASK ASSIGNMENTS)

Kyle :
User Story 1: Sketch design for location implementation, prepare backend for location processing

Rohan :
User Story 1: Prepare front-end module that will send location requests

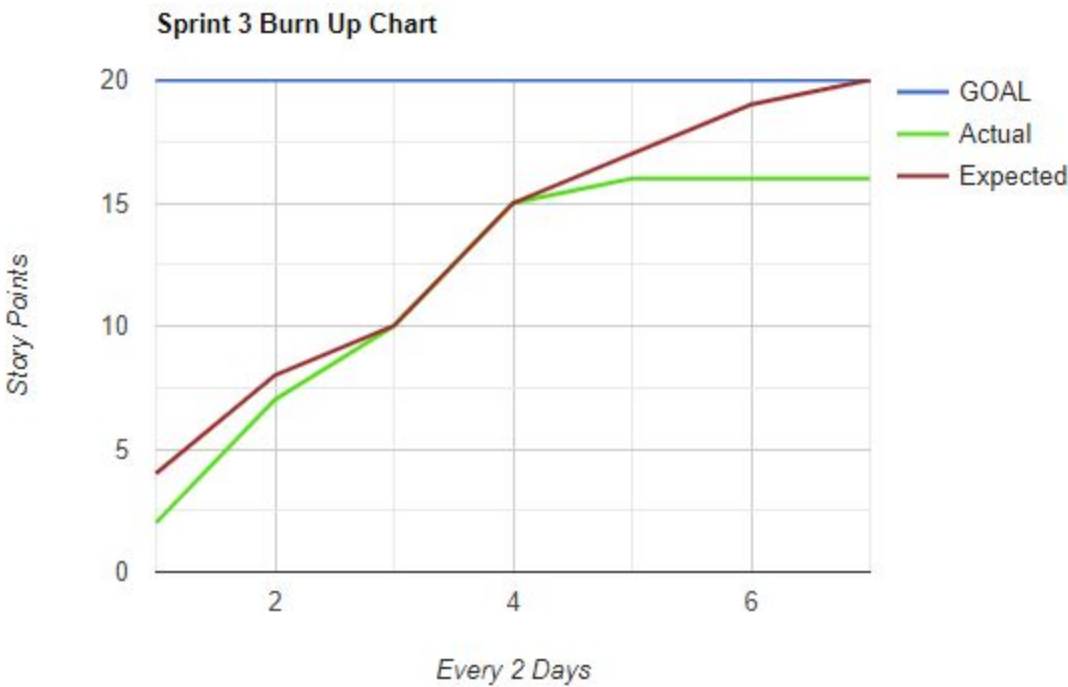
Jacob :
User Story 2: Look into Google Maps API or other location converting APIs

Sergey :
User Story 2: Prepare a unit test for valid coordinates. Create a python dictionary.

Shant :
User Story 2: Learn how to map distance from one coordinate to another

Dagmawi:
User Story 2: Create new column in database for Coordinates.

BURN UP CHART)



SCRUM BOARD:

<https://scrummy.com/checkuphealthcare>

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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 Chargesmaster CSVs</div> <div>Use Excel (or another program) to modify the format to ensure data is importable</div> <div>Make Unit Tests for CSV format to ensure data is importable</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 Python script that parses and inserts data into tables</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 application</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>
SPRINT 2) As a developer, I want to link additional information with the current information in our database tables.				<div>Merge the individual hospital tables with the new schema</div> <div>Append all merged CSVs to a master called all_data.csv</div> <div>Make Unit Tests for CSV format to ensure data is importable</div> <div>Prepare SQLite3 database for new table</div>
SPRINT 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				<div>Create Search and Chart display modules in Django/Flask</div> <div>Handle API requests in Flask, return query results</div> <div>Set up routing so users can refresh their search</div> <div>Create a dictionary for DRGs and their associated charges</div>
SPRINT 2) As a user, I want to see a minimalist, single-page web application with a pleasant interface				<div>Create a Navbar for increased functionality on desktop devices</div> <div>Modify CSS to style Bootstrap components on desktop devices</div>
SPRINT 3) As a user, I want to be able to compare the prices of hospitals near me	<div>Prime Google Maps API with dataset's address</div> <div>Link Google Maps API with ReactJS module</div> <div>Maintain design such that users can compare via interactive map</div>			
SPRINT 3) As a developer, I must store address coordinates in a local dictionary to prevent repetitive Google Maps conversions (which cost money)	<div>Iterate through every unique address in the database, and append to a dictionary</div> <div>Create a dictionary for the Address Coordinates</div> <div>Update current unit-test since a new column exists in database</div> <div>Create GCP Account to get access to Google Maps API</div> <div>Modify insertion script to update the new column</div>			

SCRUM TIMES:

TA Meeting: Mondays, 4 - 4:30PM

Team Meetings: Everyday 7PM