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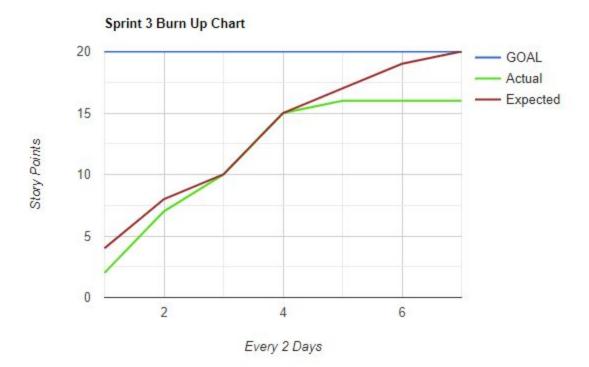> User Story 2: Prepare a unit test for valid coordinates. Create a python dictionary.

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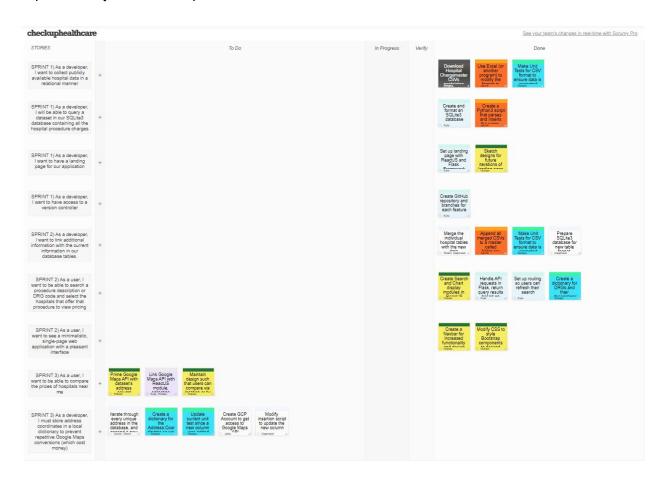> User Story 2: Learn how to map distance from one coordinate to another

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

BURN UP CHART)

Sprint 3 Burn Up Chart

SCRUM BOARD:

https://scrumy.com/checkuphealthcare

SCRUM TIMES:

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