

CS530 Bobcat Commute Iteration Report #1

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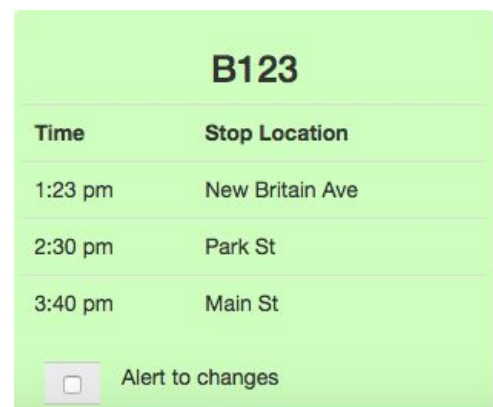
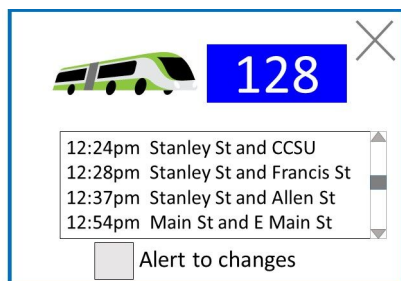
Prof. Kurkovsky 7 Nov 2016

List the user stories that you have implemented at this iteration:

#	As a/an	I want to...	So that...	Notes	Pre -> Post	Pri	Size (total:23)	Status
1	Team Member	learn to work with Google API and CT Fastrack data	I can develop this project.		Novice -> expert	0	5	To do Done
2	Team Member	Design bus stop pop-up	It can be used in the project.		Idea -> sketch	1	1	To do Done
3	Team Member	Design specific bus pop-up	It can be used in the project.		Idea -> sketch	1	1	To do Done
4	Team Member	Design best route display	It can be used in the project.		Idea -> sketch	1	1	To do Done

What functionality does the system have at the end of this iteration?

During this iteration we designed the bus stop and bus popup boxes using HTML and CSS. See images below.



We also learned how to use the google maps api to draw a map with a marker on it and a few lines representing a sample route. Also, we have learned to use javascript functionality to read the JSON data from the CTTransit website and extract meaningful data such as bus arrival and departure times.

Changes and Additions

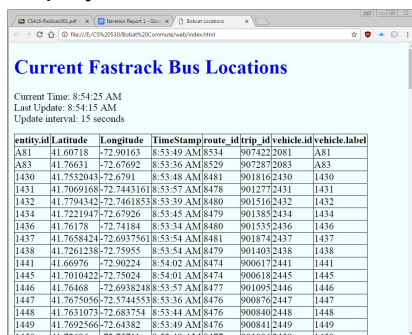
The bus and route popup boxes were made using HTML, CSS and a library called bootstrap. We used elements from the standard javascript library to access and parse the JSON data from CTTransit

Lessons Learned

Next time around we might add more specific technical details to the backlog. For example one user story could be create a javascript function to obtain bus arrival and departure times in a format that is usable for a function that creates a custom html string to show this data to the user. Another user story could be to learn to use asynchronous callback functions to ensure that all of the data that is necessary to draw on the map is loaded before the map initialization function is called.

Functionality after iteration 1:

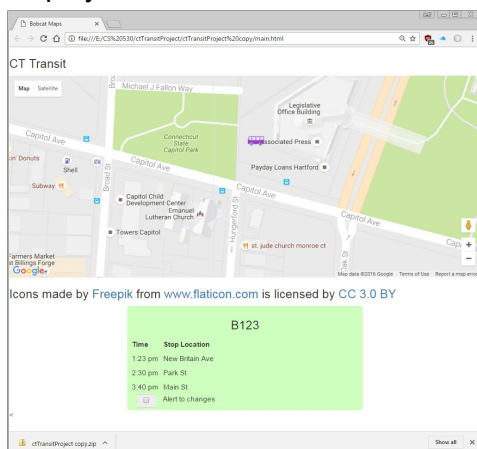
- Parse data from CT Fastrak live stream.
- Display data in basic table format (interim step)



Current Time: 8:54:25 AM
Last Update: 8:54:15 AM
Update interval: 15 seconds

Entity id	Latitude	Longitude	TimeStamp	route_id	trip_id	vehicle_id	vehicle_label
A81	41.60718	-72.90163	8:53:49 AM	8534	907422	2081	A81
A83	41.76631	-72.67692	8:53:36 AM	8529	907287	2083	A83
I430	41.75320	-72.6791	8:53:48 AM	8481	901816	2430	I430
I431	41.76691	-72.74431	8:53:57 AM	8478	901277	2431	I431
I432	41.77943	-72.74618	8:53:39 AM	8480	901516	2432	I432
I434	41.72219	-72.67926	8:53:45 AM	8479	901385	2434	I434
I436	41.76178	-72.74184	8:53:34 AM	8480	901535	2436	I436
I437	41.76584	-72.69376	8:53:54 AM	8481	901874	2437	I437
I438	41.72613	-72.75955	8:53:54 AM	8479	901403	2438	I438
I441	41.66976	-72.90224	8:54:02 AM	8474	900617	2441	I441
I445	41.70104	-72.75024	8:54:01 AM	8474	900618	2445	I445
I446	41.76468	-72.69382	8:53:57 AM	8477	901095	2446	I446
I447	41.76750	-72.57445	8:53:36 AM	8476	900876	2447	I447
I448	41.76310	-72.68375	8:53:44 AM	8476	900840	2448	I448
I449	41.76925	-72.64382	8:53:49 AM	8476	900841	2449	I449
I440	41.75606	-72.74711	8:43:40 AM	8477	901006	2440	I440

- Display first draft of info boxes as shown:



Product backlog after iteration one:

#	As a/an	I want to...	So that...	Notes	Pre -> Post	Priority	Size (total:23)	Status
Iteration, due 11/3/16 Functionality: Ability to incorporate CT fastrack data with Google AP								
1	Team Member	learn to work with Google API and CT Fastrack data	I can develop this project.		Novice -> expert	0	5	Done
2	Team Member	Design bus stop pop-up	It can be used in the project.		Idea -> sketch	1	1	Done
3	Team Member	Design specific bus pop-up	It can be used in the project.		Idea -> sketch	1	1	Done
4	Team Member	Design best route display	It can be used in the project.		Idea -> sketch	1	1	Done
Iteration, due 11/17/16 Functionality:display bus info, alert to changes								
5	user	see what time the next bus will arrive for a particular bus stop on a particular route	I can plan for when I need to be there		bus stop selected -> pop up box with info	2	5	To do
6	user	to be alerted to changes.	I'm aware of changes to my commuting schedule.	"Change" threshold?	selected bus has a change -> user is alerted.	2	1	To do
11	Team Member	Create an asynchronous callback to run functions in the correct order.	The users browser does not throw an error and not load the map showing the bus locations and routes	Added during Sprint One review meeting.	Data obtained and parsed from CTTransit -> Map loaded and feature added	1	2	To do
Iteration, due 12/6/16 Functionality: project complete								
7	user	view information about particular buses or routes.	I can meet someone who is riding that bus		bus selected -> pop up info	3	2	To do
8	user	get best route for a specific destination.	I can plan my optimal commute.		destination selected -> pop up info	3	3	To do
10	Team Member	Prepare Presentation	Give presentation	Project Complete	Not ready -> ready	0	2	To do