CS530 BobcatCommute Iteration Report #2

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

#	As a/an	I want to…	So that…	Notes	Pre → Post	Priority	Size	Status
5	developer	read data feeds and convert to objects drawn on the map	users can see the real-time bus and route objects on the map.			2	5	Done
6	developer	pull additional data from the feeds for every bus and route, and be able to tie that data to the graphical objects on the map	users can click a bus or route and see a pop-up window of additional information.		bus or route selected → pop up info	2	3	Done
7	user	view information about particular buses or routes	I can meet someone who is riding that bus		bus selected → pop up info	3	5	Partially Done

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

The system is now able to plot every bus in its current position on the map using the real-time data feed. Each bus icon is clickable to pop up a window with information specific to that bus (also pulled from the real-time data feed).
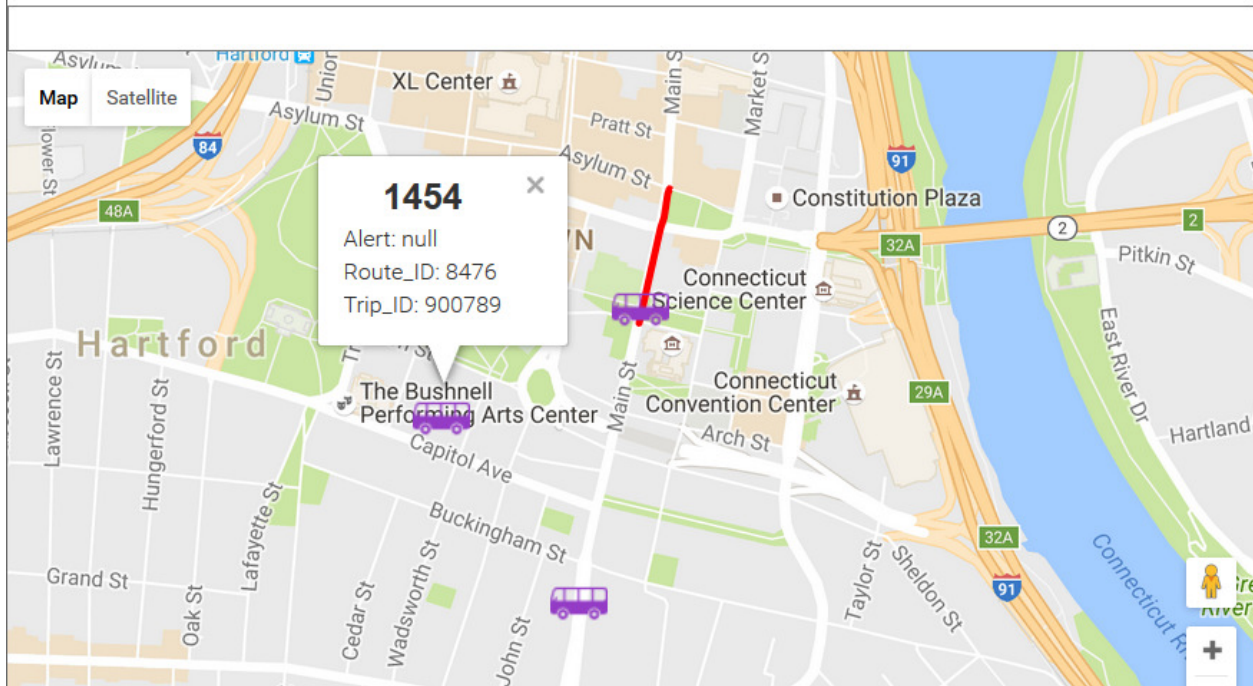
In addition, all bus routes are drawn on the map. Each is given a distinct color, and each is clickable to pop up a window with information specific to that route. The information presented in the pop-up windows is not complete yet, but the foundation for dynamically populated information is there.

There is also now an autocomplete-enabled search field above the map, allowing the user to search for any location and jump to that location on the map.

This iteration laid the foundation that allows us to dynamically pull a variety of information from a real-time or static feed, and present that information on the map. Dynamically populated pop-up information windows were also prototyped.
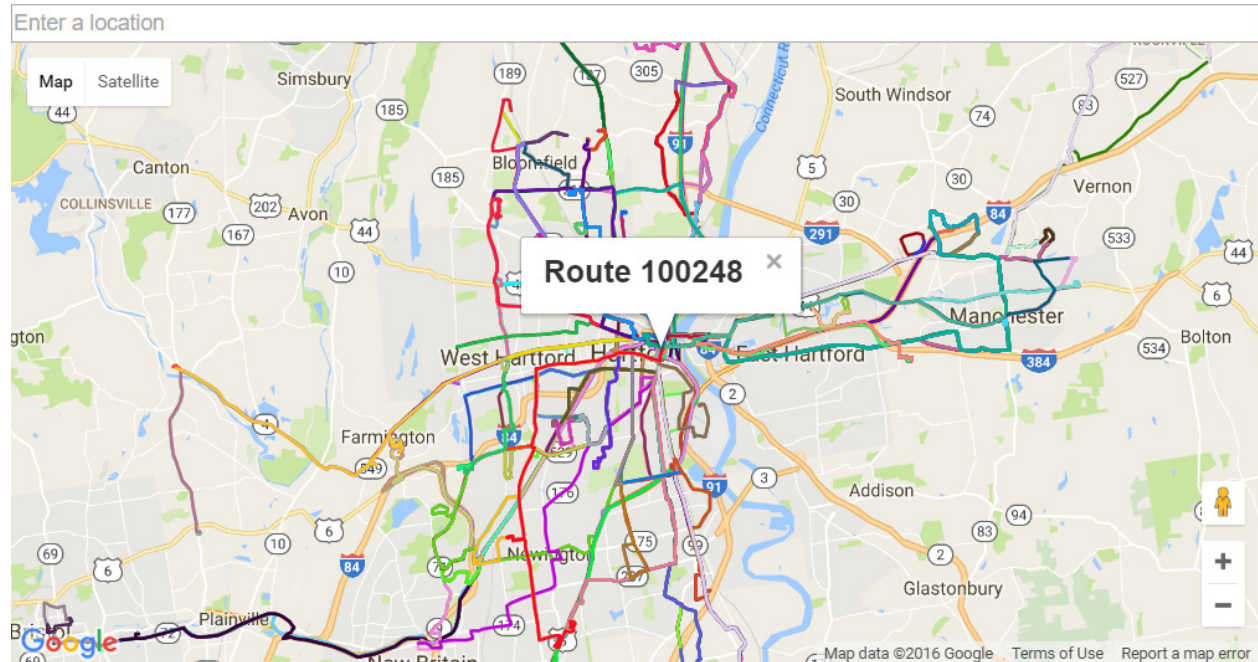
Images:

Bus icons are shown in their true positions based on the real-time vehicle data feed. One bus was clicked, showing a window with the bus ID number and some additional information about the vehicle (this is just vehicle-specific proof-of-concept information, not the finalized information). Note: this screenshot was taken late at night when only 3 buses were left on the road. About 30 buses were seen on the roads earlier in the day.

Routes are plotted on the map, each in a different color. One route was clicked on to show the pop-up information window which currently just shows the route ID number. More information will be added in the future.

Lessons Learned

The user storied in our product backlog assume certain functionality to be in place, but the implementation of that functionality was not included in the backlog. The foundational functionalities of dynamically marking each bus on the map, dynamically drawing the bus routes, and having all objects be clickable to display specific information, are an obvious requirement to move forward, but were not represented in the backlog. While a huge amount of progress was made in this iteration, it is not all represented in the original backlog.