

Iteration Report #2

Team VTD

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System Functionality:

The second iteration the of the application was able to implement the backlog stories along with stories related to the user's location. The cross-origin access issue was resolved and the team was able to implement the JSON data-feed. The ability to find the nearest bus stop was backlogged to the next iteration. The team felt that this story and the calculate/show route story should be implemented together. The other aspect of this iteration was get the user's location and checking to see if they were out of the service area. The stories related to this functionality were implements. The ability to display service alerts were also implemented. This should leave just the stories related to create a trip plan for the next iteration.

User Stories Implemented:

- [3] Live Data
- [4] Accept GTFS Requests
- [5] Share Location
- [6] Choose Location
- [7] Data Intersection
- [11] Zoom/Pan Map
- [12] Out of Range

Changes to User Stories:

The previous iteration report mentioned changing user story [3] to use the GTFS data-feed. However the issues with JSON were resolved and the team was able to implement the story as a JSON data-feed. This means all stories that were changed to show the GTFS data-feed were reverted back to the JSON data-feed.

Lessons Learned:

In the previous report the team mentioned needing to be more flexible with implementation. For this iteration the team went with different possible solutions for the JSON issue. This exploration found a solution that fixed the problems. The team also looked more closely at the GTFS feed and

implementing that solution. Once better understanding of both solutions were reached, the team choose to implement the simpler solution (JSON).

Updated Story Sizes

Story Number	Story Name	Fibonacci Size	Status
1	Find the Closest Bus Stop	3	Backlog-Next Iteration
2	Calculate/Show Route	8	Next Iteration
3	Live Data	8	Complete
4	Accepts JSON Request	3	Complete
5	Share Location	2	Complete
6	Choose Location	2	Complete
7	Data Intersection	8	Complete
8	View Service Alert	1	Backlog-Next Iteration
9	View Trip/Route	5	Next Iteration
10	View Schedules	2	Next Iteration
11	Zoom/Pan on Map	1	Complete
12	Out of Range	3	Complete

Subset To Be Implemented:

The next iteration will complete all the stories related to routing. First story [1] Find the Closest Bus Stop will be implemented as high priority. This story is a prerequisite for story [2] Calculate/Show Route which will also be implemented in this iteration. Once these two stories are implemented, story [9] View Trip/Route can be implemented as both stories [1] and [2] are pre-requisites. These stories will provide the user with the all the functionality to plan a trip on CTfastrak. Lastly story [10] View Schedule will be implemented to complete the functionality of this application. This story provides static data and as such is lower priority than the other functionalities.

Functionality For Next Iteration:

For the next iteration we will be focusing on allowing the user to find the closest bus stop and planning their trip. After the user has shared their location or selection a location on the map, they can begin planning a trip. The application will find the closest bus stop for them. From there they can select their destination and have the application map their route. They can then view the route they need to take to complete their trip. Users will also be linked to the static bus schedules if they wish to view that information.

Stories Yet Not Implemented:

[1] Find Closest Bus Stop

Story: As a Google API service I need finds the closest bus stop to the current location.

Pre-Condition/ Post-Condition: Rider has shared location or entered destination are pre-condition and the post-condition is to display the closest bus stop on the map.

[2] Calculate/Show Route

Story: As a Google API map service I need to calculate the route and display the route to the riders. The rider is provided with a visual representation of the route.

Pre-Condition/ Post-Condition: Riders have shared their location or destination and the Google API has found the closest bus stop are pre-Condition and there is no post-condition.

[8] View Service Alerts

Story: As a rider I want to view the details of a service alert notification. I want to see if the alert affects any of their plans and make any adjustments necessary.

Pre-Condition/ Post-Condition: Accept GTFS request and provide live data are pre-conditions. No post-conditions are required.

[9] View Trip/Route

Story: As a rider I want to view the route I will be traveling to reach my destination. I want to know the route I must take, the distance, and estimated travel time.

Pre-Condition/ Post-Condition: Share location, choose location, find closest bus stop, and show/calculate route are all pre-conditions. No post-conditions are necessary.

[10] View Schedule

Story: As a rider I want to see the full bus schedule. I want access to all the bus schedules for trip planning.

Pre-Condition/ Post-Condition: View bus information is a pre-condition. There are no post-conditions.