

Project Title: CT Fastrack Website

Deliverable Name: Product Iteration - 3

Team Name: TeamSpark

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Functionalities implemented

In the third iteration, we successfully implemented the user stories View Bus schedule (4), View Map (5) which include real time bus position and **all CTFastrack bus routes** and corresponding **bus stops** on a **selected bus route**.

After implementing all these functionalities, when user selects “Trip Planner” they can see all CTFastrack bus routes and all CTFastrack bus positions on the map. System will identify user current location and nearest bus stops from user current location. User has an option to see any particular route and bus stops on that particular route in two ways, user can click on the route to see all the bus stops on that route or he can select a route on top right drop down and view all the bus stops on that route. Selected route information will be displayed on the top right to identify the route which user has selected.

Along with main functionalities, we have included Home page where we have provided an image of CTFastrack which will serve as an entry page for our website. We have implemented another separate page for “Bus Schedule” which lists all the CTFastrack buses and their schedules, in the page we have provided an option to select date so that user can verify the schedule on any future date which he prefer to travel.

User stories implemented

(4) View Bus schedule.

(5) View Map

Product backlog

There is a product backlog from Iteration 3, user story Schedule of next few buses at a bus stop (6) was not implemented.

Changes to User stories

No changes to the selected user stories for this iteration.

Break Down

User story **View Map** is further broken down into:

- Display real time bus feed.
- Display all CTFAstrack routes on the map
- Display Bus stops when a route is selected
- Display Bus stops when a route is clicked
- Display Bus stop name when clicked on a bus stop

User story **View Bus schedule** is further broken down into:

- Display future or past bus schedule along with current day schedule when selected

New User stories identified and implemented

Two new user stories included as part of this iteration

(1) Home page

User Story: As a User, I want to get into the interphase of the website and Home Page will be helping in that.

Precondition: There should be a valid website, which will have a home page.

Post condition: There is no Post condition.

Breakdown: No further break down required.

(2) Contact information

User Story: As a User, I want to have the contact details of the CT fastrack, so that I can ask any questions to them in future.

Precondition: There should be someone to respond user's queries.

Post condition: There is no post condition required.

Breakdown: There is no further breakdown required.

Lessons learnt

Category	Issue Name	Problem/Success	Impact	Recommendation
Learning	Learning KML	Team members were not aware of how to use KML document.	Team were struggling to display interactive route on the map.	Set aside some time for learning KML which helped us to create static routes on the google map.
Testing	Testing the code before committing on Github	Lack of unit testing the functionalities prior to commit.	Additional time spent to debug and redo the coding.	Test before and after commit.

List of all User stories which are yet to be implemented:

6. Schedule of next few buses at a bus stop

User story: As a user, I want to track the next bus arrival times. The transit website provides dynamic predictions of the next bus arrival time at each stop. That really eliminates the odd of waiting for the bus at a bus stop.

Precondition: User should identify the Bus stop.

Post condition: System should display next 3 buses.

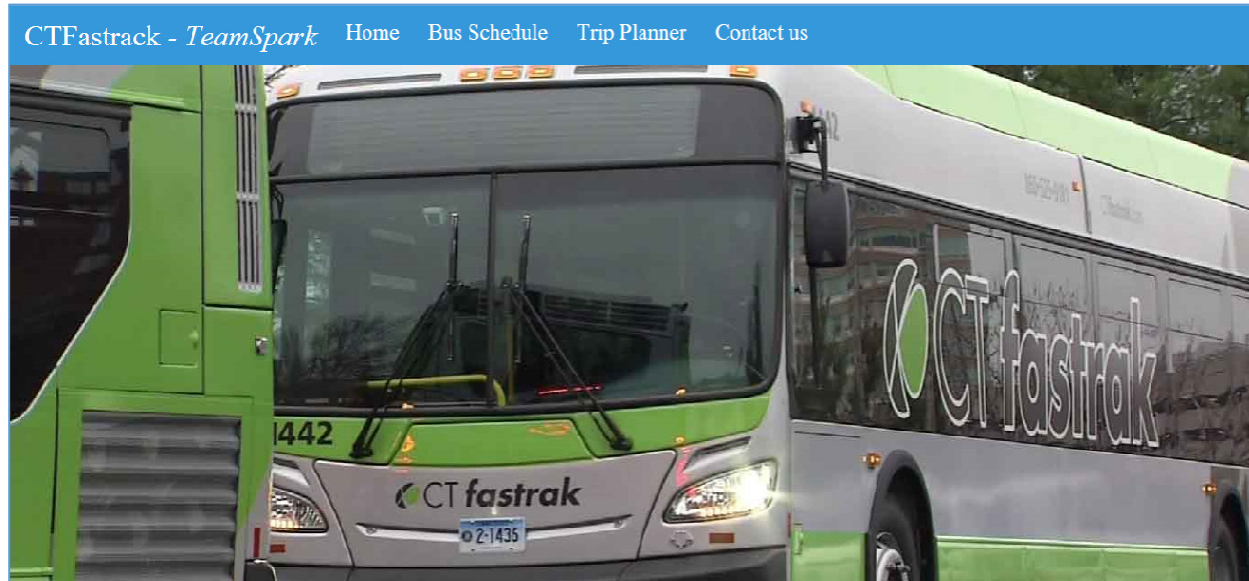
Breakdown: No further breakdown

User stories current status:

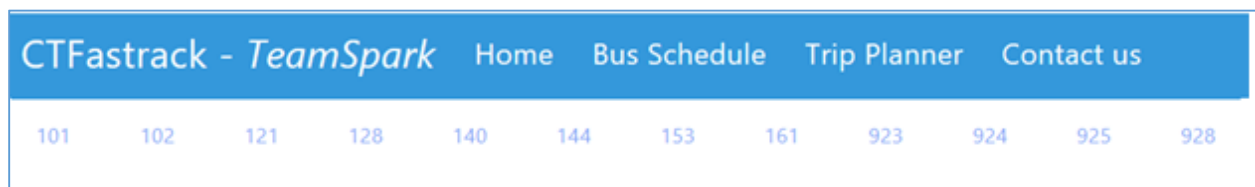
Story Number	Story Name	Story size	Status
1.	Check user's current location	3	Completed
2.	Locate nearest bus stop	5	Completed
3.	View trip route	8	Completed
4.	View bus schedule	2	Completed
5.	View map	3	Completed
6.	Schedule of next few buses at bus stop	3	Not Completed

Screen Shots

Home page (entry point to the website)



Bus Schedule Page



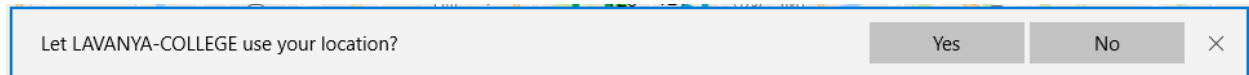
When user selects a route website will display current schedule of that route

CTfastrak - TeamSpark Home Bus Schedule Trip Planner Contact us													
101	102	121	128	140	144	153	161	923	924	925	928		
101 - HARTFORD													
CTfastrak and New Britain Station Bay B	CTfastrak and East Main St Station Platform A	CTfastrak and East St. Station Platform A	CTfastrak and Cedar St Station Platform A	CTfastrak and Newington Junction Station Platform A	CTfastrak and Elmwood Station Platform A	CTfastrak and Flatbush Ave Station Platform A	CTfastrak and Kane St Station Platform A	CTfastrak and Park St Station Platform A	CTfastrak and Sigourney St Station Platform A	Asylum St and Opp Union Pl	Jewell St and Trumbull St	Main St and Travelers	
10:52	10:55	10:57	10:59	11:02	11:05	11:07	10:49	10:51	10:53	10:55	10:56	10:58	
11:12	11:15	11:17	11:19	11:22	11:25	11:27	11:09	11:11	11:13	11:15	11:16	11:18	
11:32	11:35	11:37	11:39	11:42	11:45	11:47	11:29	11:31	11:33	11:35	11:36	11:38	
11:52	11:55	11:57	11:59	12:02	12:05	12:07	11:49	11:51	11:53	11:55	11:56	11:58	
12:12	12:15	12:17	12:19	12:22	12:25	12:27	12:09	12:11	12:13	12:15	12:16	12:18	

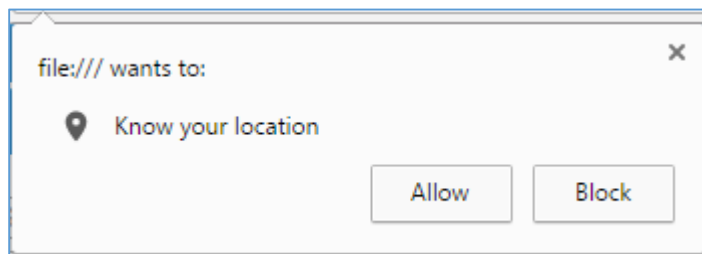
Trip-Planner Page

When user enter trip planner page website will prompt for the location detection

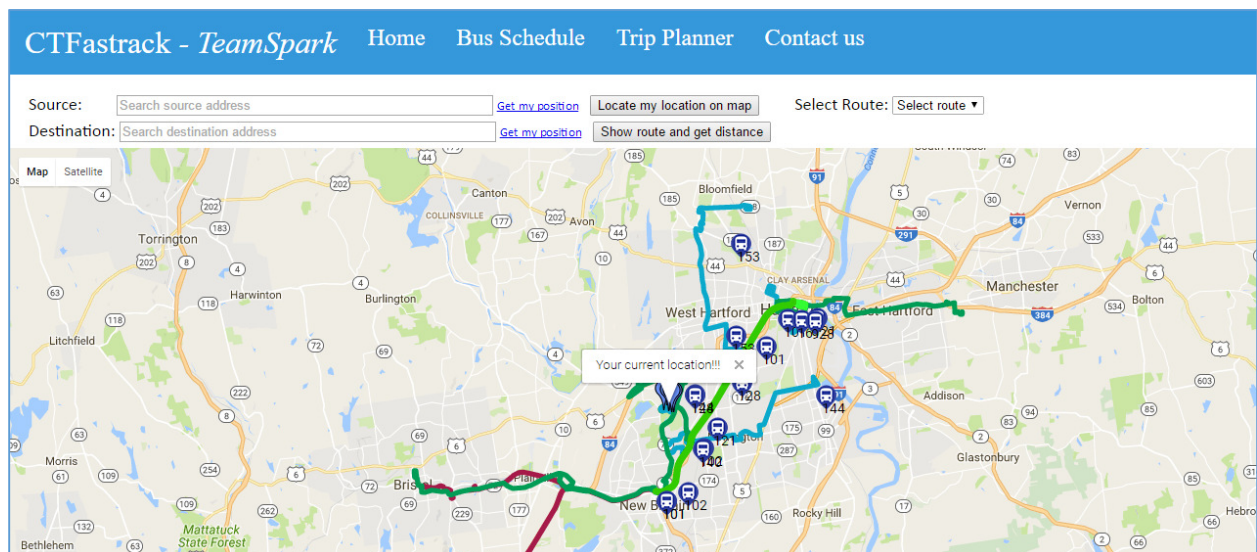
On Internet Explorer:



On Chrome:



Once user selects the location system will locate their location on the map and real time bus positions as well.



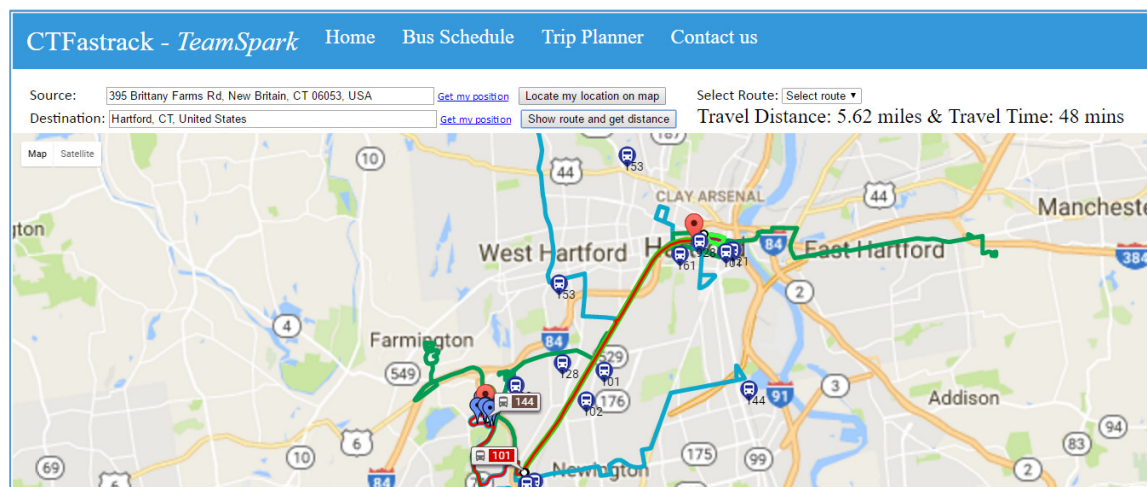
Feature – “Get my position” will display their current location

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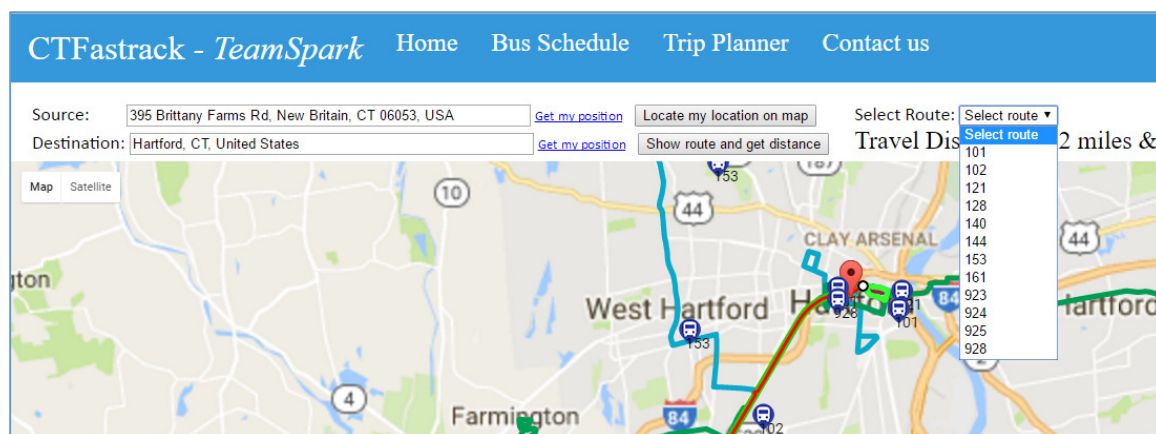
Source: 395 Brittany Farms Rd, New Britain, CT 06053, USA [Get my position](#) [Locate my location on map](#) Select Route: [Select route ▼](#)

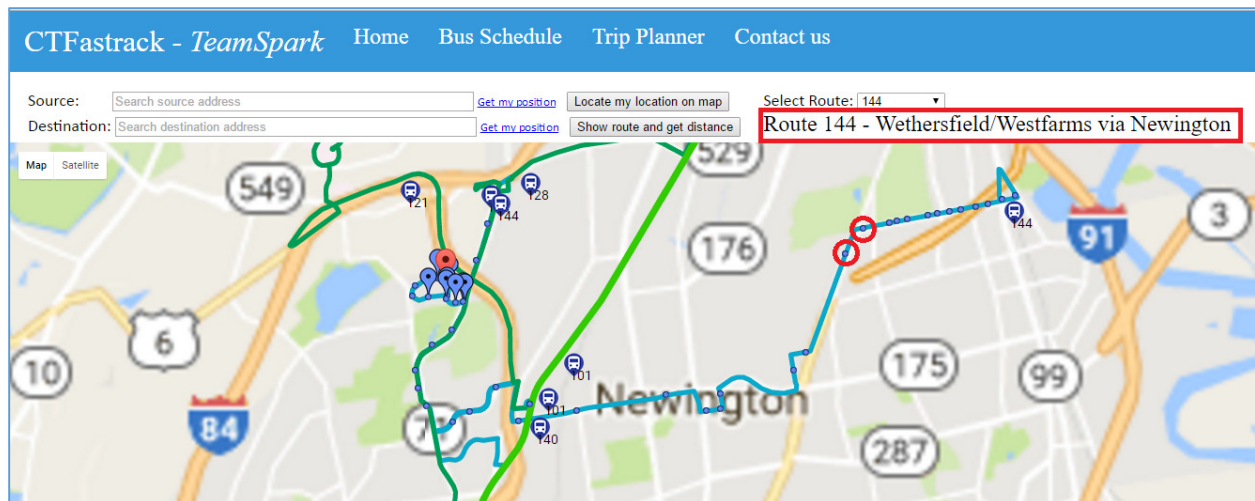
Destination: Search destination address [Get my position](#) [Show route and get distance](#)

Feature – User has the opportunity to provide source and destination and hit on the “Show route and get distance” button it will display route and travel time and distance.

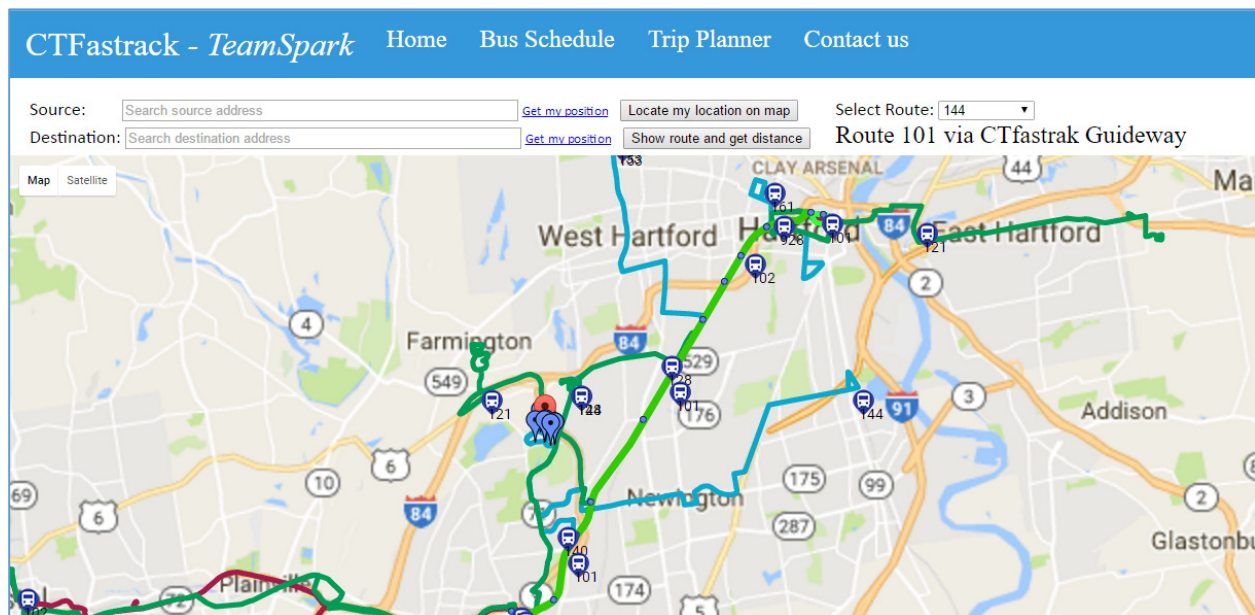


Feature – user has an opportunity to select the route to display the bus stops on that route.

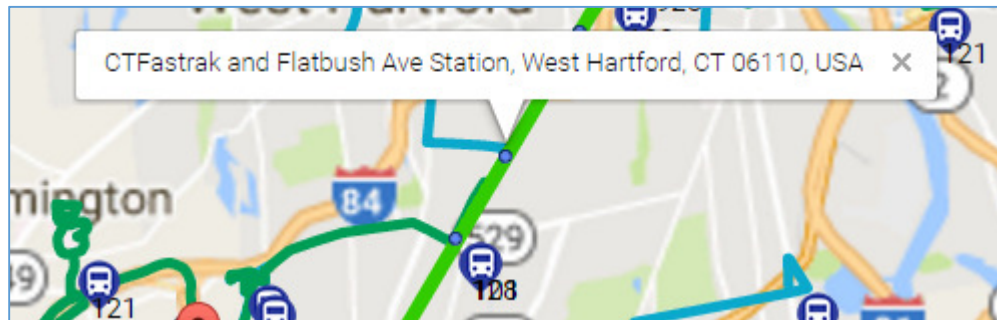




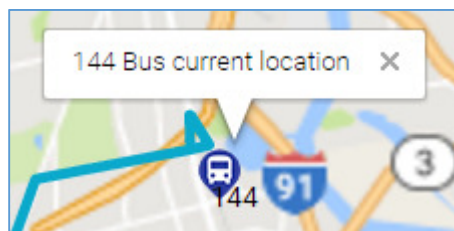
Feature – user also has an option to click on route to display bus stops on that particular route.



Feature – user can click bus stop to see the name of the bus stop



When user click on bus they can see a message as below



Contact us – Page: users can contact us is they have any questions.

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Contact us

Final coding of the iteration 3:

[https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/blob/master/Work/CTFastrack TeamSpark-Iteration3.html](https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/blob/master/Work/CTFastrack%20TeamSpark-Iteration3.html)