Project Title: CT Fastrack Website

Deliverable Name:	Product Iteration -1
Team Name:	TeamSpark
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Functionalities implemented

In the first iteration, we successfully implemented two user stories which are User's current location (1), Locate nearest Bus stop (2), along with that we identified two new user stories which are Address suggestion and locate user's current location while loading the page. We are able to implement all this with the help of Google API in our application and also the facility of Zoom In and Zoom out is provided.

User stories implemented

(1) User's current location

(2) Locate nearest Bus stop

Product backlog

There is no product backlog from iteration 1, we have successfully implemented all selected user stories in this iteration.

Changes to User stories

No changes to the selected user stories for this iteration.

Break Down

There is no further break down of the current user stories.

New User stories identified and implemented

1. Address suggestion:

User Story: As a user, I want a feature where application will suggest address when I start typing the address on search box so that no need for me to know or remember complete address when I start using the application.

Precondition: No Precondition.

Post condition: System should provide suggestion on an address when user start typing the address.

Breakdown: No further breakdown.

2. Locate user current location on page load:

User Story: As a user, when I start using the website it should point me to my current location so that it will be easy for me to locate my location on map.

Precondition: No precondition.

Post condition: System should display user current location on map when user launched the website.

Breakdown: No further breakdown.

Lessons learnt

Category	Issue Name	Problem/Success	Impact	Recommendation
Learning	**Learning Github**	Team members were not aware of the Github usage	Difficult to collaborate with team	Set aside some time for learning tools which would

			members effectively.	be used in the project.
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.
Team Collaboration	**-**	Success -Online tools like Google Hangouts, Github and Google doc helped us in collaborate with every team member	Saved time and everyone were on the same page	We decide to continue using these online tools for future work.

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

3. View Trip route-

User Story: As a passenger, I want to visualize the route and identify all the bus stops where the bus will stop on that route. Also, this feature will provide additional information like travel distance and travel time so that I can plan further commute at the destination location.

Precondition: User should provide valid source and destination.
Post condition: System should display route and display all bus stops on maps for the chosen route.

Breakdown: This user story is further broke down to
• Identify the bus stops on the route chosen

• Display travel distance
• Display travel time

4. View Bus schedule-

User Story: As a passenger, I want to view all the bus schedule. So that, I can plan when to start. With this feature, I can get all current and future schedule of a bus.

Precondition: User should know which bus schedule they are going to search. Valid bus route (i.e. bus route number) should be provided

Post condition: Only current and future bus schedules should be displayed

Breakdown: No further breakdown.

5. View Map-

User Story: As a passenger, I want to view routes on the map, real-time bus locations, and stop locations. So that, I can see exactly where the bus is on the map in real-time and helps to plan the trip accordingly.

Precondition: No precondition.

Post condition: Map has been changed is the post-condition.

Breakdown: It would be broken down into two, zoom in/zoom out.

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	Yet to complete
4.	View bus schedule	2	Yet to complete
5.	View map	3	Yet to complete
6.	Schedule of next few buses at bus stop	3	Yet to complete

User stories planned for 2nd iteration:

Story Number	Story Name	Story size
3.	View Trip route	8

Functionality planned for 2nd iteration:

We are planning to implement “Trip route” functionality during 2nd iteration. After the 2nd iterations our application will import data from CT transit and display routes accordingly.

Final coding of the iteration 1:

https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/blob/master/Work/CTFastract_TeamSpark-Iteration1.html