

Project Title: CT Fastrack Website

Deliverable Name: Product Iteration -2

Team Name: TeamSpark

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Functionalities implemented

In the second iteration, we successfully implemented the user story View trip route (3) which is further divided into three sub user stories those are **Identify the bus stop** on the chosen route, **display travel distance** and **display travel time**.

After implementing all these functionalities, we can input the source and destination of our choice, on the website. It is locating the route with the bus number and also showing the travel distance and time.

User stories implemented

(3) View trip route

Product backlog

There is no product backlog from iteration 2, 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

User story View trip route is further broken down into:

- Identify the bus stops on the route chosen
- Display travel distance
- Display travel time

New User stories identified and implemented

No new User stories identified and implemented.

Lessons learnt

No lessons learnt in this iteration.

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

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

User stories planned for 3rd iteration:

Story Number	Story Name	Story Size
4.	View bus schedule	2
5.	View map	3
6.	Schedule of next few buses at bus stop	3

Functionality planned for 3rd iteration:

We are planning to implement View bus schedule, View map and schedule of next few buses at bus stop functionalities during 3rd iteration.

After the 3rd iterations our application will be able to give information about the bus schedule and bus stops.

Final coding of the iteration 2

[https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/blob/master/Work/CTFastrack TeamSpark-Iteration2.html](https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/blob/master/Work/CTFastrack%20TeamSpark-Iteration2.html)