Project Title: CT Fastrack Website

Deliverable Name: User Manual

Team Name: TeamSpark

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Deploying the system

Code can be pulled from GitHub to any location on local machine and users can start using the system.

GitHub location: https://github.com/LavanyaMattaparthi/CS530-16-Software-Engineering/tree/master/Work

Technical Specifications

Application connects to Google API, Google drive to fulfill couple of features and it works on most available web browsers.

- Internet Explorer (IE)
- Google Chrome
- Opera
- Safari

Main features of the system

1. **Live Bus location:**
   System automatically updates the bus position and its details on the map so that user can locate its exact position and plan their ride.

2. **Trip Planner:**
   User can enter a place from where they wanted to board the bus in **source** address and where they would like to reach at **destination** address fields, and hit on "Show route and get distance" button. System will display the transit route, travel distance and Travel time.

3. **Get my position:**
   If users are at unknown place and they don't know the address, they can click on 'Get my position' link which display user location on either Source or Destination field.

4. **Nearest Bus stop:**
   User can get the detail of nearest bus stop from their current location.

5. **Zoom in, Zoom Out:**

   User can Zoom in and out on the map so that they can get a better view of the map.

6. **View Bus schedule:**

   User will be able to view schedules of all buses, so that he can plan their trip ahead in time.
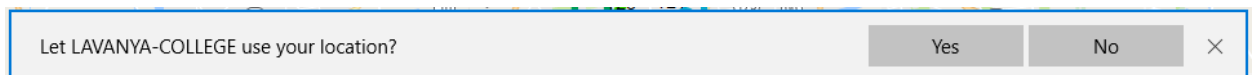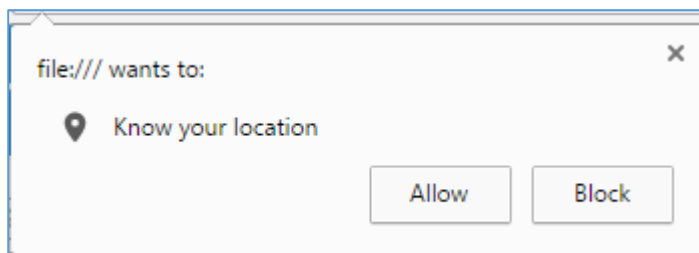
Main Scenario

1. **Locate user current location:**

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

   detection. User need to hit on "Allow" or "Yes" based on the browser.

   System will point user's current location on the map.

   On Internet Explorer:

   | Let LAVANYA-COLLEGE use your location? | Yes | No | × |

   On Chrome:

2. **Display CTFastrack bus path:**

   When user enter into the "Trip Planner" page, all CTFastrack bus paths will

   be displayed on the screen.

3. Real time bus positions:

When user enters into the "Trip Planner" page, all CTFastrack bus current positions will be displayed on the screen and their position will get updated every 5 seconds.

Screen Shot:
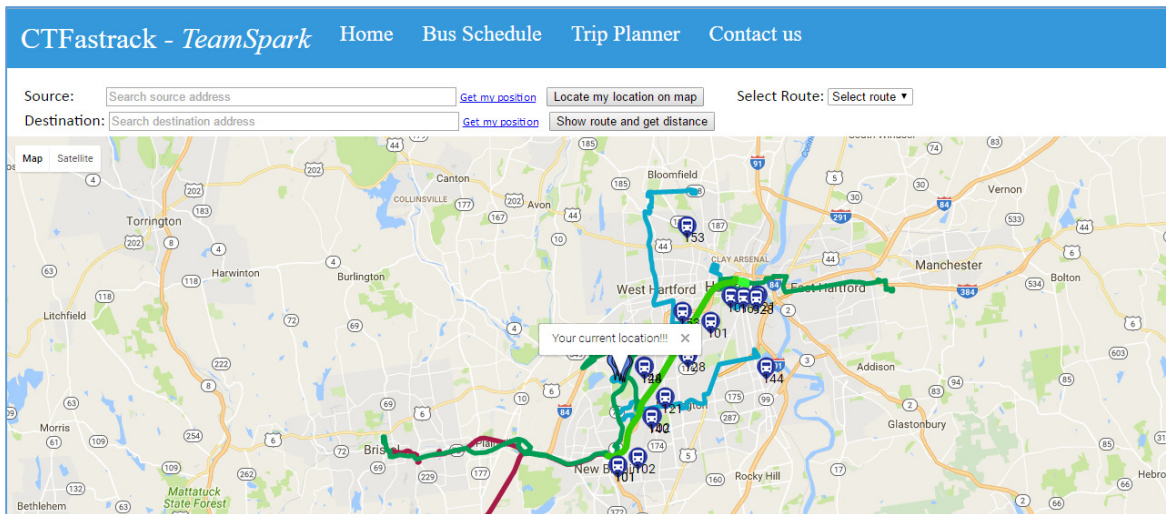
4. Travel from one place to another:

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.
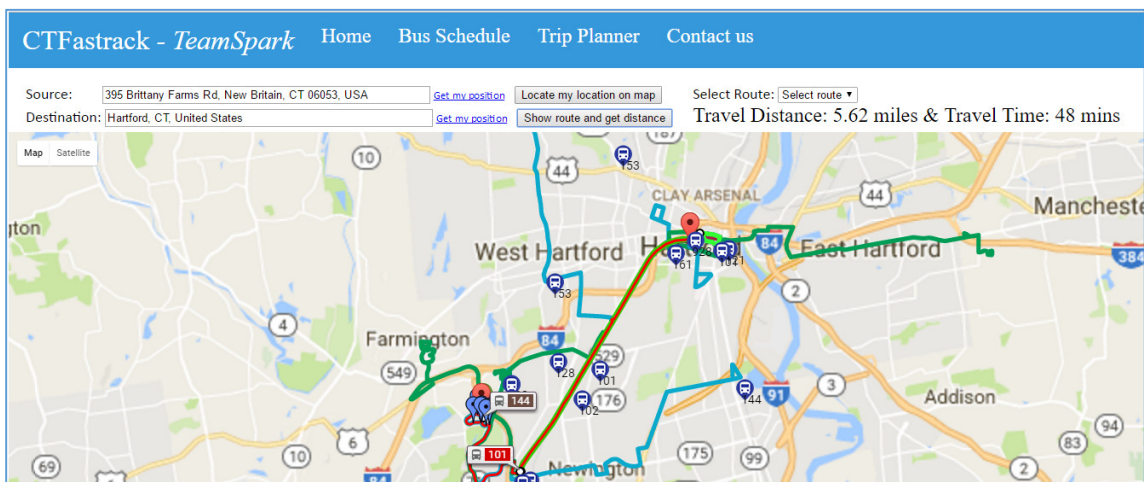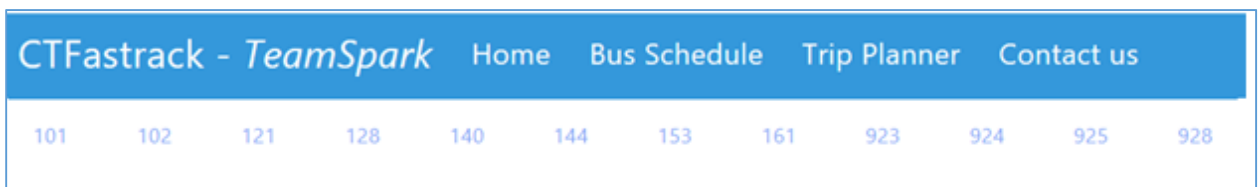
5. Locate bus stops on the route:

Users can click on route to display bus stops on that particular selected route, they can identify the selected route at the top right corner which display the selected **Route number**
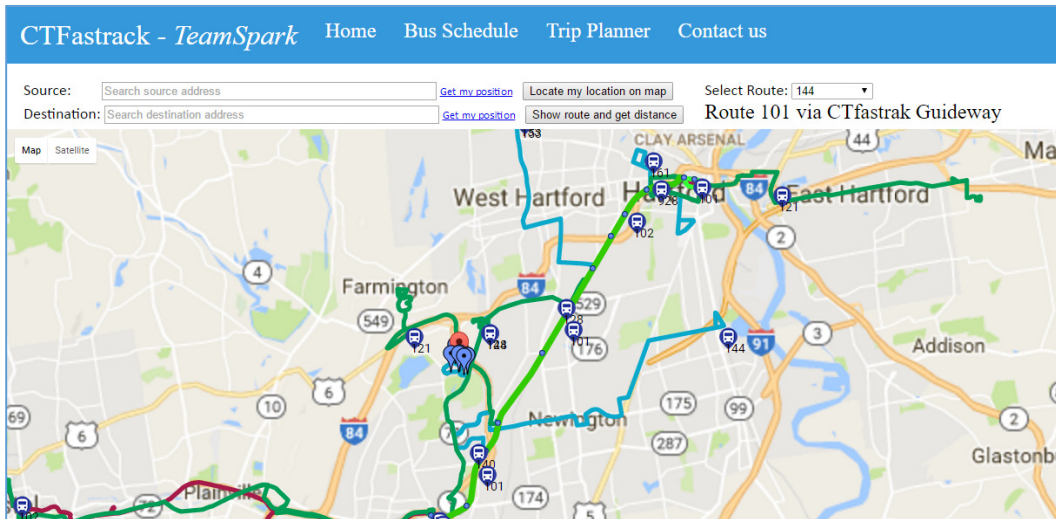
6. View Bus Schedule:

Users can view all CTFastrack bus schedule and plan their trip ahead in time.

Bus Schedule Page

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

Additional features

1. Feature – "Get my position" will display their current location.

2. Feature – user has an opportunity to select the route to display the bus stops on that route.
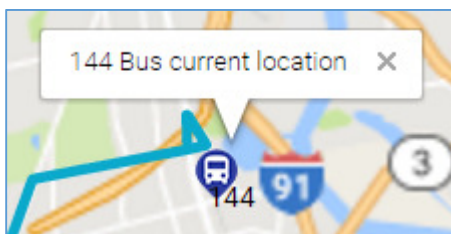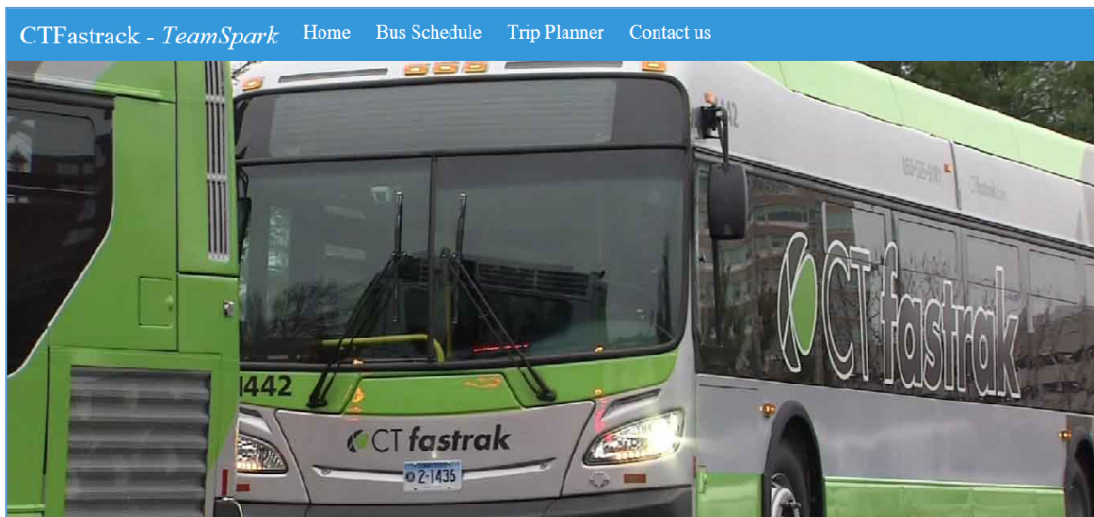
3. Feature – user can click bus stop to see the name of the bus stop
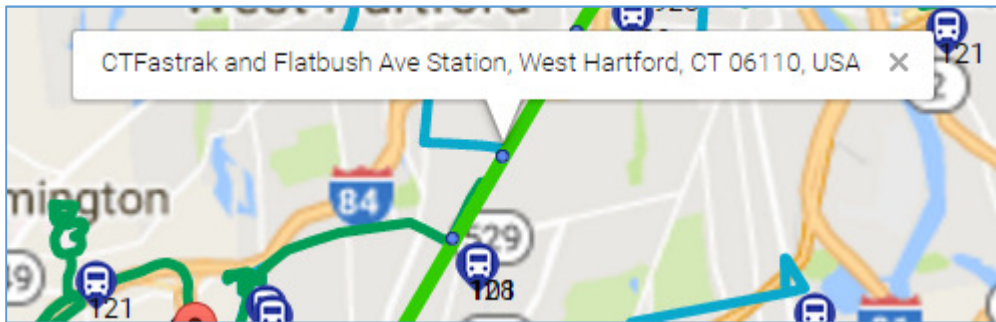
4. When user click on bus they can see a message as below:

5. Home Page:

6. Contact us**:** users can contact us is they have any questions.