Traffic Monitoring Project

Group #13

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Software Engineering 14:332:452 User Documentation

https://sites.google.com/site/452trafficmonitoring/home

http://www.jracoma.com/trafficmonitor/

Website User Documentation

The website-based application can be accessed through a variety of browsers. Open a browser of choice and enter the following URL: http://www.jracoma.com/trafficmonitor/. Once the page is reached, the home page is shown with a variety of menu options on the top bar for the user to choose from.

Home Page

The Available options are "Traffic Monitoring", "Alerts", "More Stuff", "Signup", and "Login". Clicking the "Traffic Monitoring" button brings the user back to the homepage of the website. These options are at the top bar of the interface page.

The available inputs are "Starting Location", "Destination Location", "Departure Time", "Departure Date", "Set Alert", "Alert Method", and "Submit" button. These inputs box are on the right side of the interface.

The map is available on the left side beside the available inputs box.

Application

In the user interface web, after filling the inputs on the right side and submit, the application can allow the user get direction from the input starting location to the destination location. The page will validate the inputs and let the user know if an input is required or input in a wrong format. One example of data the user can submit is: "07016" in the starting location text box, "08854" in the destination location text box. "3:20PM" in the Departure time, and "3/30/2014" in the departure date. Check "Set Alert" and Type in alert method as "testing@gmail.com". Once the user clicks the submit button, the application will search for possible routes and it will attempt to display traffic condition and traffic alerts on an overlay of the map of the area. The image highlights the route placed on roads of the user's desired from the starting location to destination location, and the route segments have colors marked various intensities of traffic. The list of colors is available for viewing above the output picture. The image displayed is medium (800 x 600 pixels). The webpage has scrollbars that the user can utilize to more fully view the output map. The route found is optimized to avoid all areas with a high traffic concentration. The list of directions shown is in table form, with the list of maneuvers and distance the User must follow at each point. Below the table, the total distance and estimated travel time are listed. The map showing the route is displayed below the list of directions. A static map from the Google Map is used, and the route the User should follow is highlighted in blue. At this point, the User may choose to input another set of directions, they may click any of the menu options to bring them to another page, or they may close the window to be finished with viewing the website application.

The second functionality of the website is managing alerts by first "signup", and then "login" to manage the saved alerts.