

Traffic Monitoring System

User Documentation

Group #7

Matt Araneta, Kevin Hsieh, Peter Lin, Geoff Oh, John Reed, Michael Simio

April 5, 2013

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://traffichistory.co.nf/>. Once the page is reached, the home page is shown with a variety of menu options for the user to choose from.

Home Page

The Available options are “Home”, “Map”, “Project Progress”, and “Group Members”. Clicking the “Home” button brings the user back to the home page of the website. Clicking the “Map” button brings the user to the Traffic Monitoring System Application. The “Project Progress” button brings the user to a page showing the relevant documentation for the reports submitted so far. Finally, the “Group Members” button brings the user to a page that lists the members in Group #7.

Application

The most substantial of these choices is the “Map” option, which brings the user to the website-based application. This application allows for the following options for the user to submit: one text box to submit the zip code desired, one dropdown menu to describe the time the user wishes to observe, one dropdown menu to describe the weather the user wishes to observe, and one button used to submit this information.

One example of data the user can submit is: “07016” in the zip code text box, “9am-12pm” in the Time dropdown menu”, and “Sunny” in the Weather dropdown menu. Once the user clicks the submit button, the application will search for traffic points in that region, and it will attempt to display those points on an overlay of the map of the area. The image shows the points placed on roads of the user’s desired zip code, and the points have colors marking various intensities of traffic. The list of colors is available for viewing above the output picture.

The image displayed is large (1280 x 1280 pixels), so the user may be unable to view the entire image on his or her screen. The webpage has scrollbars that the user can utilize to more fully view the output map.

After viewing the output picture, the user has several options. He or she may: enter another set of data to view the traffic severities, click any of the menu options to bring him or her to that page, or close the window to be finished with viewing the website application.

Mobile Application User Documentation

When the user starts the Traffic mobile application by tapping on the icon, they are greeted with a screen containing two buttons. The top button is for getting a traffic report from the web service, and the bottom button is for sending a traffic report to update the database. In total, there are two total paths that the user can take to complete interaction with the application.

If the first option is chosen, the user can input a zip code, choose a time period from a dropdown menu, and choose weather from another dropdown menu. Afterwards, they press the Get Report button and this path is concluded.

If the second option is chosen, the user can input the traffic intensity they wish to report by selecting from the available choices. Then they press the button to submit the report and this path is concluded.