

# ***wmyft?***

**Where's My Fast Trak?**

**Project Proposal**

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Our group will create a web-based application that can display the CT FastTrak route along all bus stops and provide specific data for use to travel. To use the application, the bus commuters of CT would access the website and then input their destination. After all necessary data is entered, the application will output what buses will visit the nearest bus stop and what bus to take to get to intended destination in the least amount of time. Application also provides alerts for incoming buses for a certain bus stop should the user need to know what buses are coming.

This system takes data from the user and the CT FastTrak data about the buses such as: arrival/departure predications and alerts provided in real-time via JSON format. Data provided allows users to show updated progress of bus as it makes its way in its route. This system helps users by showing the nearest bus stop and the ideal bus to take to get to their destination. Users also have the option to search for a bus stop to find out what buses will come to that stop along with a map that is constantly updated with the all buses location.

## **Main components**

Processing the data: Taking the JSON data format and making it useful so we can use the data (real-time tracking and alerts). JSON file will be grabbed every few hundred milliseconds from the URL provided on the CT FastTrak development page using JS (or JQuery).

GUI: Users can use our application with ease in easy to understand format. The GUI will be coded using a mix of HTML, CSS & JS. A big part of the GUI will be implementing the Google Maps API into the website.

Trip planning: Takes predications provided by JSON data to help user plan most efficient route to their destination. We will use JS/JQuery to filter the JSON data and make calculations.

Alerts: Provided by JSON data, tells users if bus route change in their bus routes due to delays or early arrivals. Since the JSON data will be updated every couple hundred milliseconds, the users will be alerted as soon as an alert is posted in the JSON records.

Bus Stops/Bus Tracking: GUI displays all bus stops and buses in real-time. All buses and bus stops will approximate arrivals.