



Project Proposal

CTFastrak Application

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I. Intended use of the system:

The intended user-base for the system are those who wish to commute via the CTfastrak transit system. On an Android mobile app, compatible with phones and tablets, the user will be presented an interface with a map or visual representation of active busses and bus routes. The users will be able to choose a destination from the map or enter it through a text box and the system will be able to recommend the nearest bus stop for the best route for the user to take.

II. Functionality:

The system will display a route map for CTfastrak services with all bus stops and busses displayed in real-time on the map. Given the user's location and destination, the system will be able to calculate the most convenient route for the user to take. Convenience will be at the discretion of the user, and he or she may be able to alter their desired bus stop location from a choice of quickest arrival, fewest stops, fewest transfers, etc. The user can also obtain information on what buses are approaching a particular bus stop at any given time.

III. Main components:

The primary feature of the system will revolve around an interactive map displaying information about the CTfastrak bus routes. For this information, the system will rely on real-time data feeds supplied in General Transit Feed Specification (GTFS) or JSON formats in order to retrieve information about vehicle positions, trip updates, and service alerts. This information will be used to predict arrival and departure times. The application may support advertisements if requested or desired.