



Cyberdyne Systems

User Manual

CTFastrak Application

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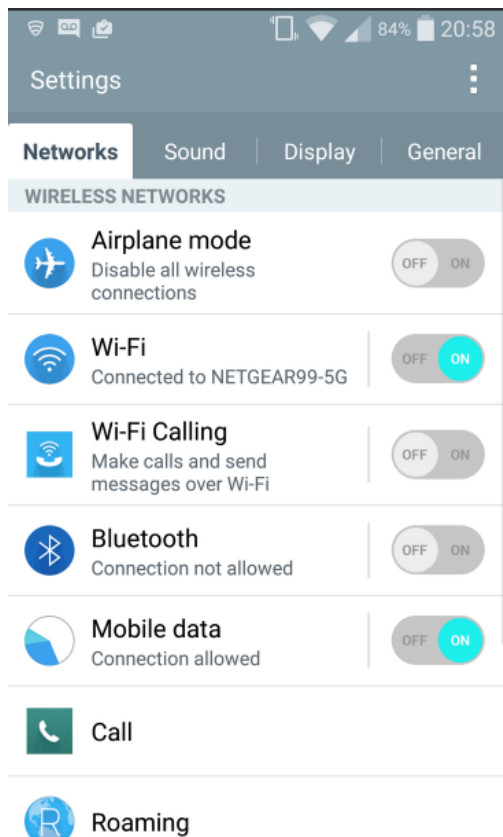
User's Manual
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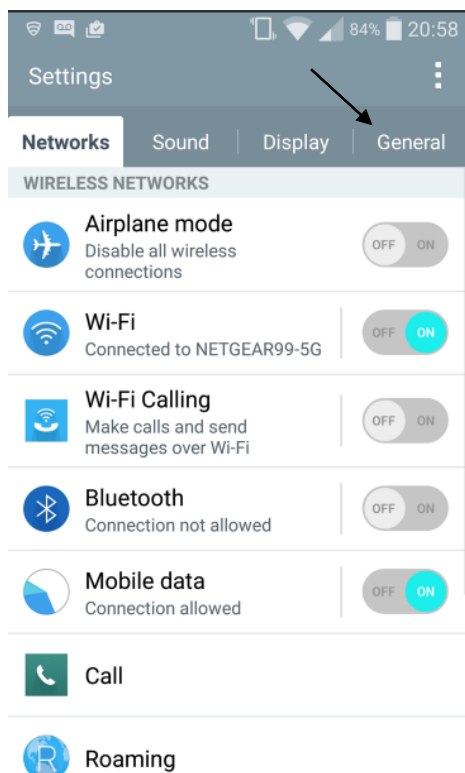
Before Downloading our Application

To use our application you will need to follow a couple of steps if you haven't downloaded anything besides the Google Play Store. These steps will allow your device to install an Android Application Package (APK). If you are familiar with these steps, or if you downloaded an APK before, follow to page 6.

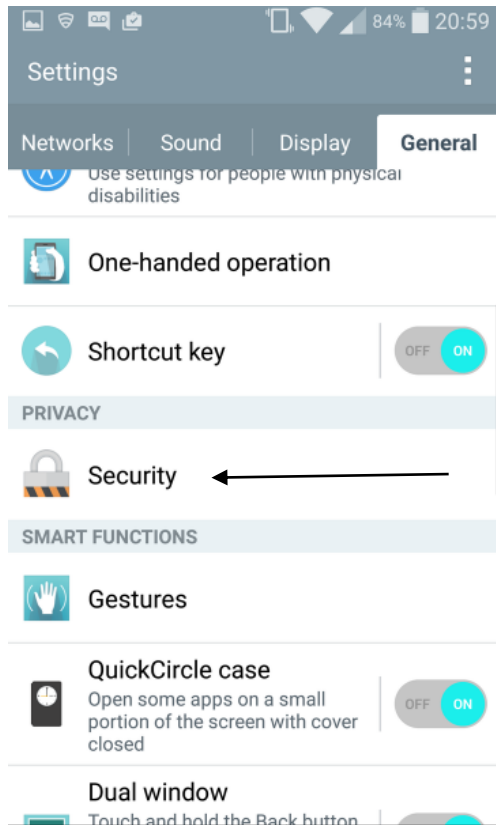
First, open your settings:



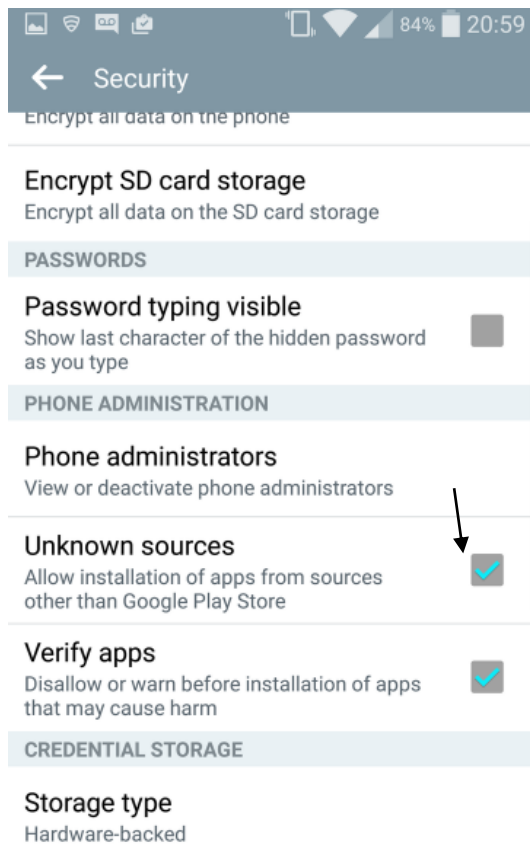
Then, tap on the “General” tab:



Scroll down to the “Security” option, and tap it



In the final step, tap on the box to allow “Unknown sources” to be installed, this way you can install our CTFastrack App using an APK.

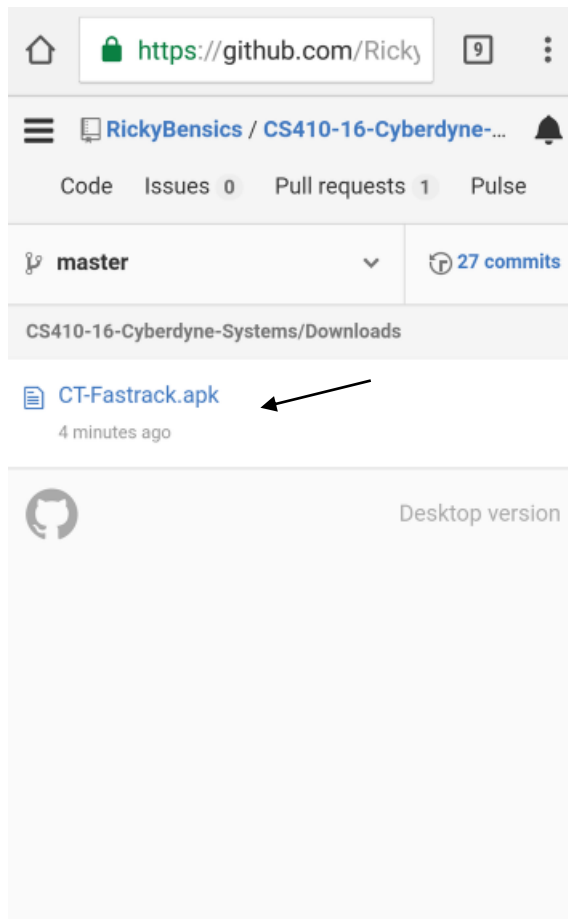


You may also want to download a file manager to find the APK if you won't immediately install it after downloading from your browser, however re-downloading the file also does the trick.

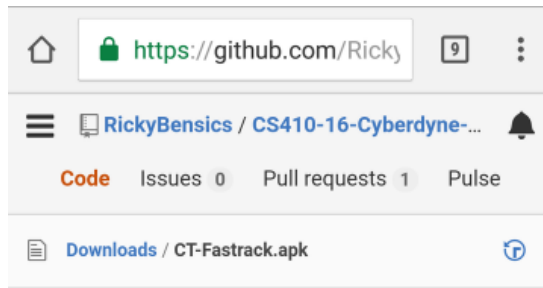
Downloading the Application

Our APK file is located here: <https://github.com/RickyBensics/CS410-16-Cyberdyne-Systems/tree/master/Downloads>

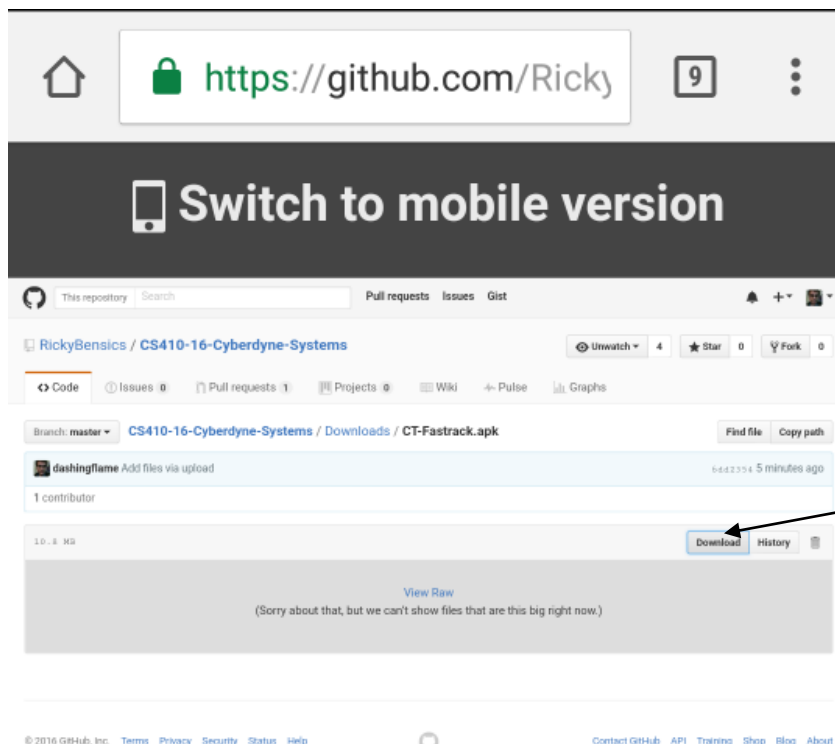
To download it from your device you will need to switch to a desktop version of GitHub. First tap the file



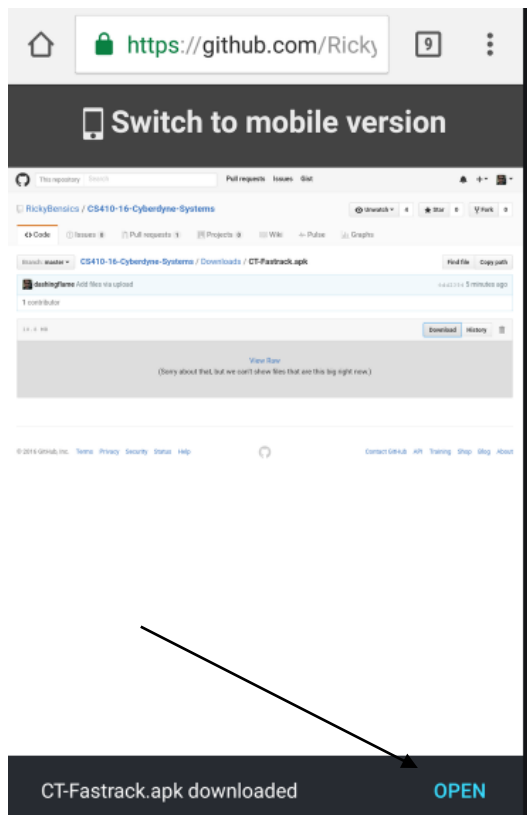
Then GitHub will try to tell you that the file is too big, work around that by switching to the desktop version of GitHub.



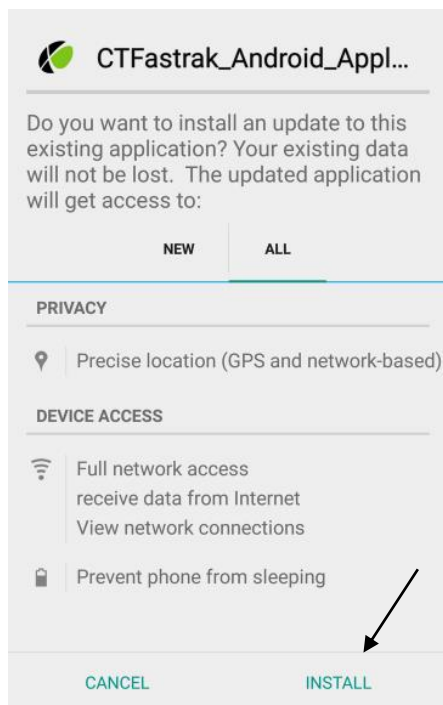
This file is too big to show. Sorry!



Tap the download button and install the APK



Next, tap the install button.



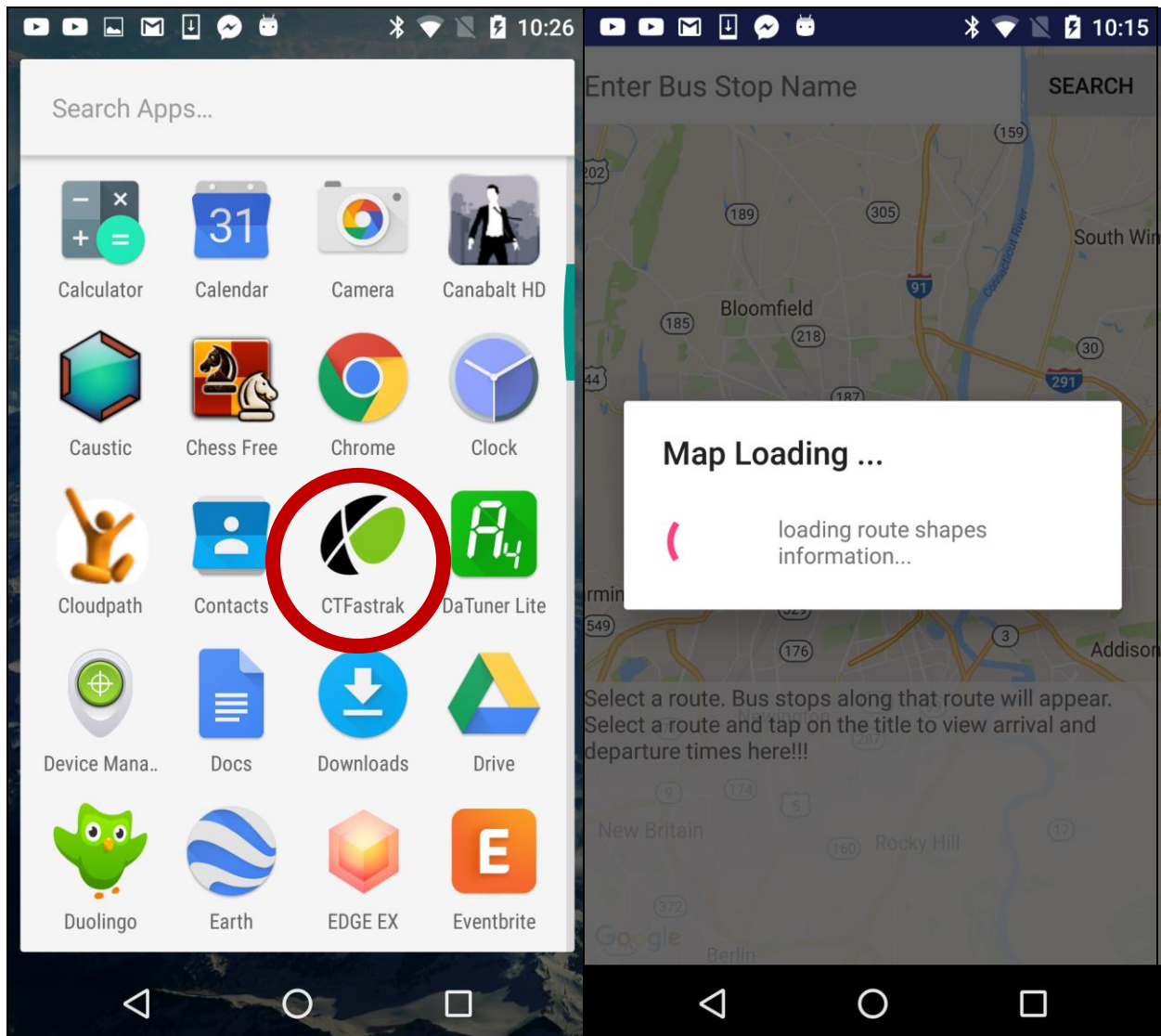
The app is now installed and ready for use on your device!

Main Features

This application uses real-time data to tell you the current CTFAstrak bus stop information. When tapping on the bus stop name, the bus schedule will be automatically adjusted to the current day, the route numbers of the active routes that day will be displayed, and the times that a bus departs at a bus stop will be crossed out based on the current time. Your location will be automatically marked by a blue circle that will mark where you are currently. The map is bounded around the state of Connecticut, but if you're lost by browsing the map, there is a button that re-centers based on your location and keeps your current zoom level.

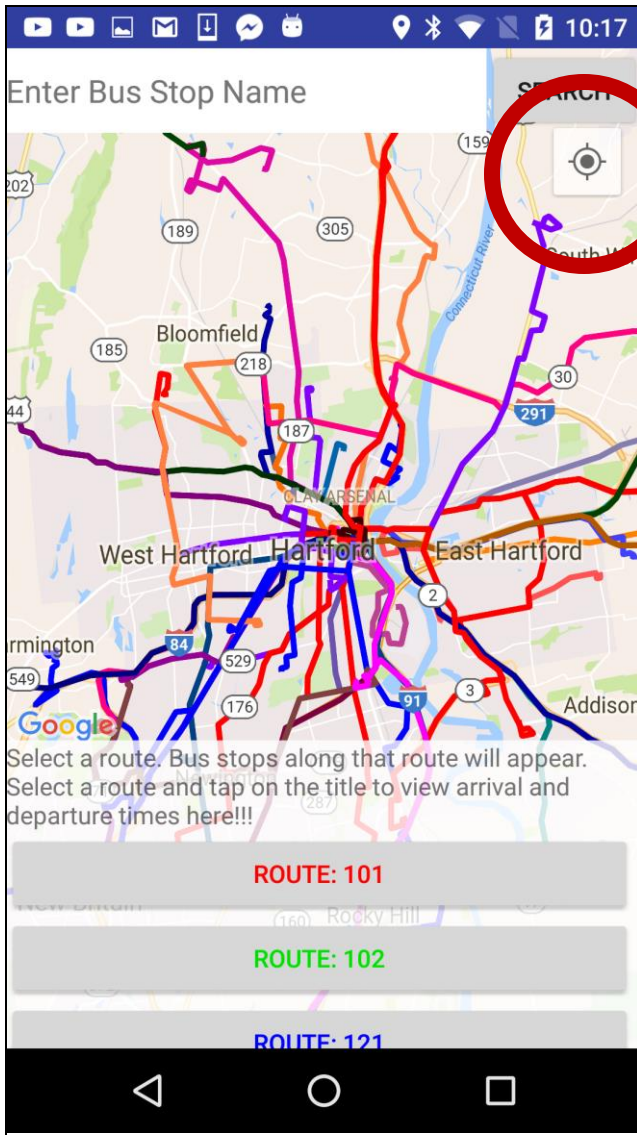
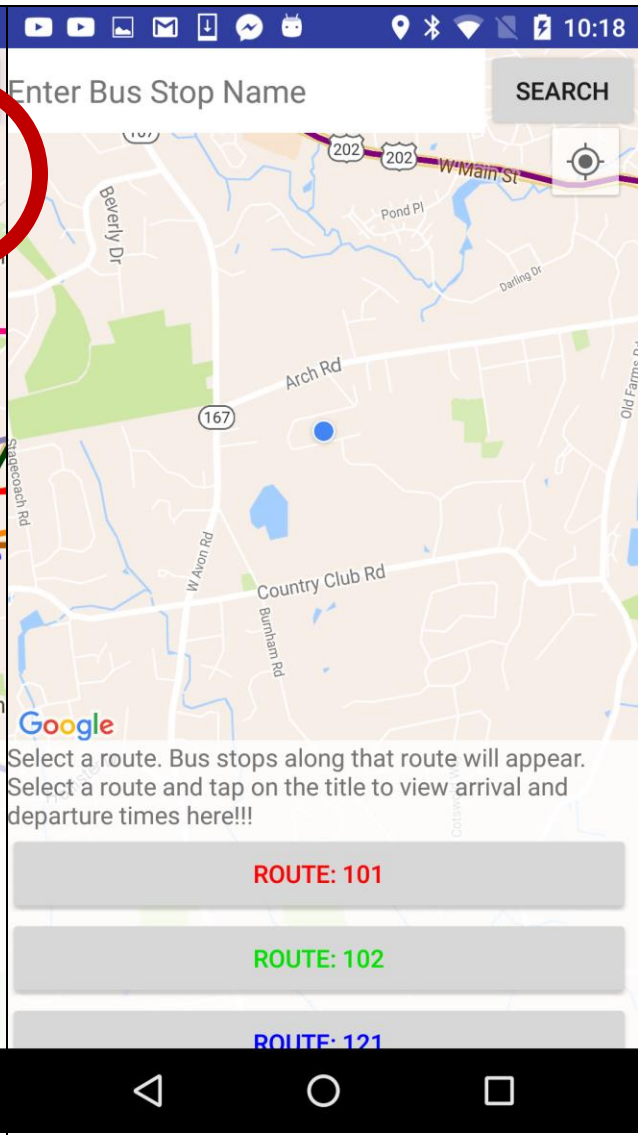
The routes are displayed on the map in different colors to help you identify them. You can view the route information by either tapping the route on the map itself, or tapping the route number will display the list of bus stops on that route. Individual bus stops will be marked and the route will be of a bigger size than the other routes. The search box will allow you to look up the location of a bus stop if you enter a substring of that bus stop name. The search bar implements autocomplete for your text, so you do not need to know the exact name of the bus stop. The application is also connected to Google Maps, where you may get the directions to the chosen bus stop, or just view the main points of interest around the chosen bus stop

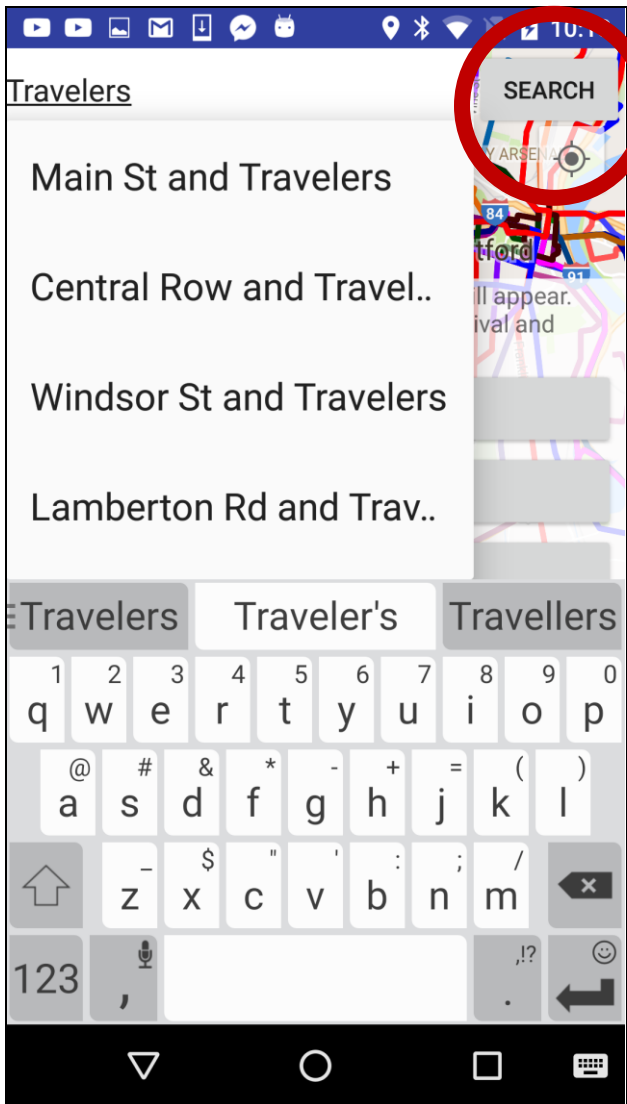
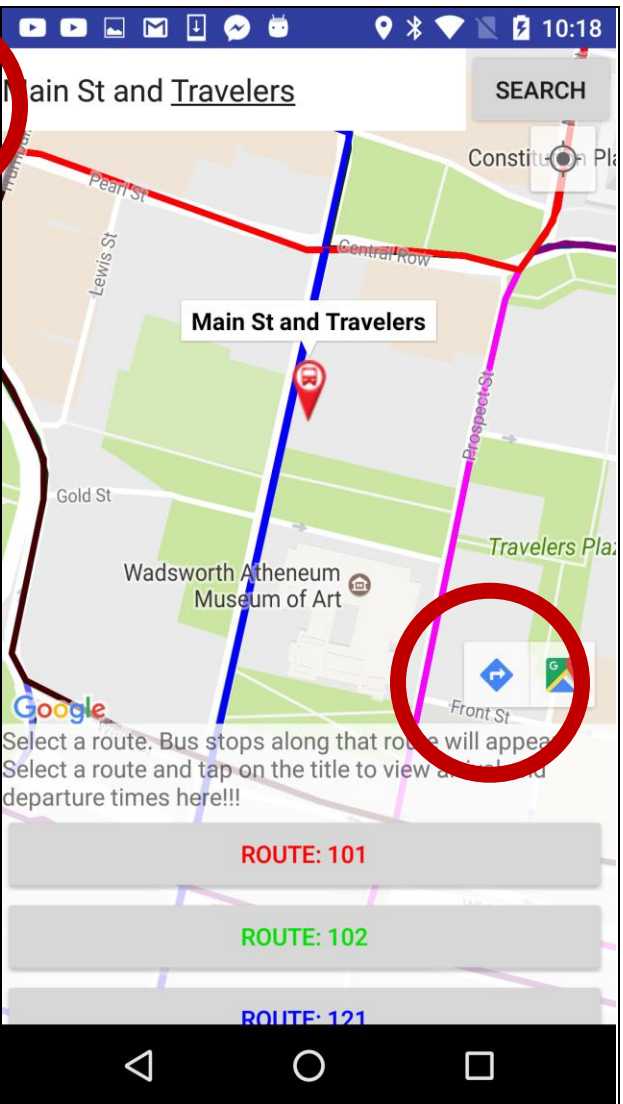
Using the Application

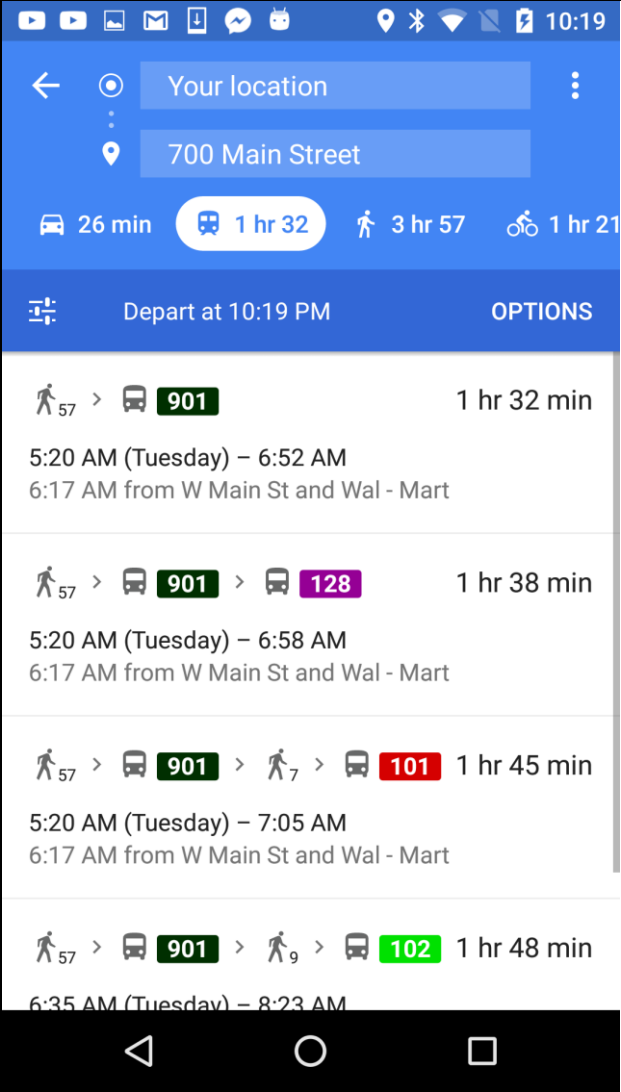
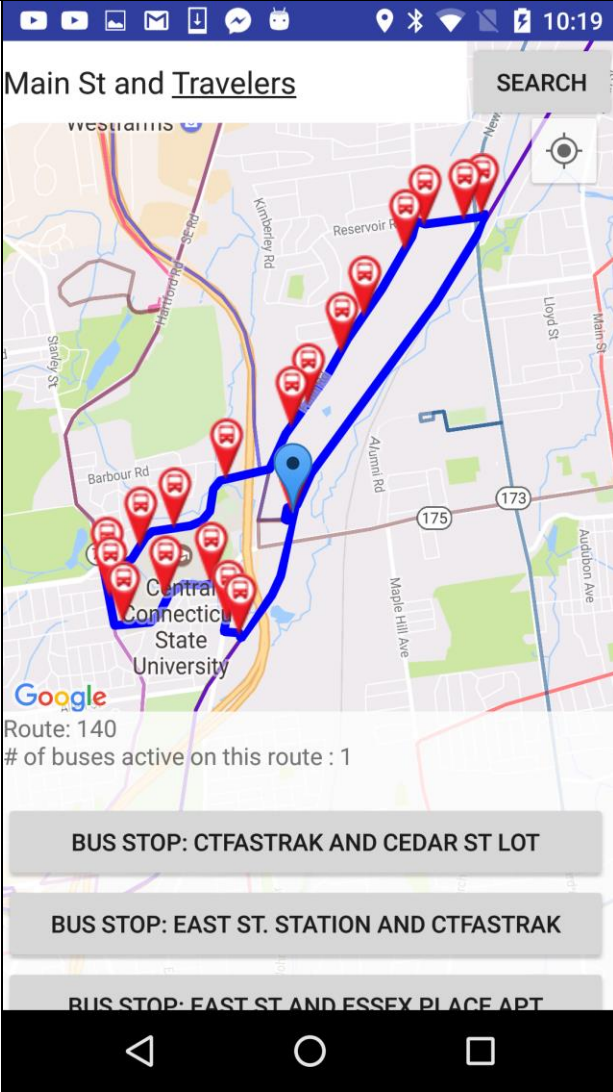


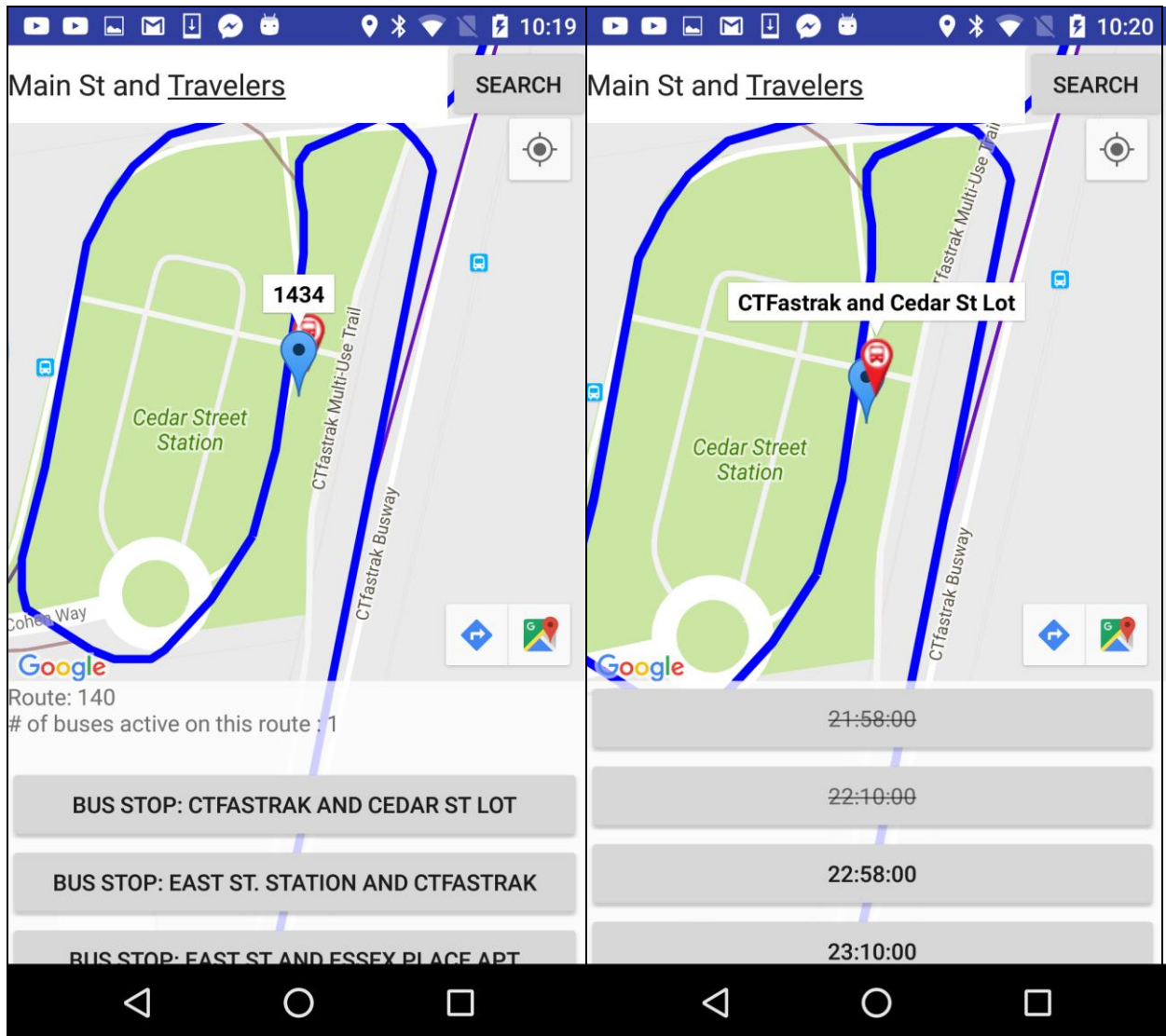
The app will appear under the list of apps as CTFastrak. Tap on the CTFastrak icon to open the app.

On startup, the user is displayed a dialogue box. This is to let the user know that the system is loading up the necessary information.

	
<p>After loading, the user is displayed an entire route map. Here, the user may select a route either by tapping on a line or selecting a route button through the info box. The user may also use the search box to search for a bus stop, or press the location button to center the map on the user location.</p>	<p>Because the user has pressed the location button, the map is now centered on the user location. The user is represented as a blue dot on the map.</p>

	
<p>The user may use the search box. When tapped, the keyboard will appear. The user may enter a substring of a bus stop name, and the search box will display a list of bus stops containing that substring. Tapping on the list will autocomplete the text.</p>	<p>When the text has been autocompleted, the user may press the search button, and the app will place a marker on the map to where the bus stop is located, and center the camera on that location. When the marker is tapped, a Google Maps toolbar is displayed on the lower right corner. The user may press this to obtain directions to this location</p>

 <p>Because the user has pressed on the Google Maps toolbar, the Google Maps app will open and display a route the user can take to reach that destination. The user can go back to the main app by pressing the back button.</p>	 <p>The user selected a route, either by tapping on the line or pressing the route in the info box. The info box now displays all bus stops on that route, as well as where they appear on the map. All other routes have been made transparent. In addition, real time bus locations for buses on that route will appear as blue markers. The user can deselect this route by tapping on the map anywhere outside of the selected polyline</p>
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The user can tap on the blue marker to show the bus ID. The marker position will update itself every few seconds to show the current location of the bus.

If the user selects a bus stop displayed as a red marker, either by tapping on it or selecting it through the info box, then the info box will display the bus stop schedule for that bus stop. Times with a strikethrough denote a time that has already passed.