System	Requirements: CTFastTrak Live Map and Routes	8
	Software Engineering CTFastTrak API Project Bryan Davis, Robert Rotaru, Matthew Shafran, Brian Tardiff	

User Story #1: User is displayed current information

Pre-condition: System is online and reachable. User is connected to the system.

Post-condition: User is able to view current information.

User role: Traveler

Goal: To get up-to-date CTFastrak information from the system.

Reason: Traveler is better able to plan a route.

User Story #2: GET NEAREST LOCATION

Pre-condition: System is accessible; Traveler is logged into the system; Locations are

available

Post-condition: Traveler is able to retrieve nearest stop location

User role: Traveler

Goal: Traveler can access the application's get nearest location feature and the app will

determine the stop location nearest to the traveler

Reason: Traveler should be able to access the nearest bus stop location so that they

can plan their route accordingly

User Story #3: SET DESTINATION

Pre-condition: System is accessible; Traveler is logged into the system; Locations are

pre-loaded into the system

Post-condition: Traveler is able to set a destination

User role: Traveler

Goal: Traveler can access the application's set detination feature and specify a

destination that they would like to travel to

Reason: Traveler should be able to set a destination that they would like to travel to in

order to accomodate travel plans

User Story #4: PICK ROUTE

Pre-condition: System is accessible; Traveler is logged into the system; Routes have

been calculated based on traveler's input Post-condition: Traveler is able to pick a route

User role: Traveler

Goal: Traveler can access the application's pick route feature and select from a list of

calculated routes that the application has generated based on the user's input Reason: Traveler should be able to pick a prefered route to facilitate travel needs

User Story #2: JSON getting bus stop information from CTFastTrack

Pre-condition: CTFastTrack provides bus stop information in JSON format

Post-condition: Bus stop data gets sent to user

User role: JSON Data

Goal: To get up-to-date location of bus stops

Reason: Responding to User's request for bus stop location

User Story #3: JSON getting bus information from CTFastTrack

Pre-condition: CTFastTrack provides bus information in JSON format

Post-condition: Bus data gets sent to user

User role: JSON Data

Goal: To get up-to-date location of buses

Reason: Responding to User's request for bus location

User Story #4: User is displayed bus stop information

Pre-condition: System is online and reachable. User is connected to the system.

Post-condition: User is able to view most current bus information

User role: Traveler

Goal: To get up-to-date location of bus stops Reason: Traveler is better able to plan a route

User Story #2: Get bus stop information

Pre-condition: System is online and reachable. User is connected to the system.

Post-condition: The user is able to receive information about bus stop locations and

projected arrival times.

User role: Traveler

Goal: The user will be able to look at nearby bus stop locations and figure out which are

closest. The next upcoming bus arrival times will also be listed for each location.

Reason: The user will be able to figure out which stop to go to.

User Story #3: Receive GTFS Notifications

Pre-condition: System is online and reachable. User is connected to the system. The user is either allowing automatic notifications or requests an update of GTFS data. Post-condition: The user will receive all up to date information from the GTFS data, including any changes to route information.

User role: Traveler

Goal: The user will be able to receive any updated information about the bus arrival times, ensuring that the data shown to the user is as accurate as possible. The notifications will update the user to any important changes (i.e. a delayed bus). Reason: The user will be alerted of any changes in bus routes and be able to plan a better route if the alerts affect him or her.

User Story #11: GTFS interface accepts live event/delay data.

Pre-condition: GTFS API is available. Interface is able to access GTFS data.

Post-condition: System listens and recieves live event and delay information. This

information is displayed in the user interface.

User role: The GTFS interface.

Goal: Live event data is relayed from the CTFastrak API to the user interface.

Reason: Traveler is able to receive notifications about route conditions and events.

User Story #12: GTFS interface accepts live bus information.

Pre-condition: GTFS API is available. Interface is able to access GTFS data. There is bus information available.

Post-condition: System listens and receives live bus status information. This information is displayed in the user interface.

User role: The GTFS interface

Goal: Live bus data is accepted from the CTFastrak API and displayed to the user interface.

Reason: Traveler is able to view buses live on the map.

User Story #13: GTFS interface accepts live information about stops.

Pre-condition: GTFS API is available. Interface is able to access GTFS data. There is bus stop information available.

Post-condition: System listens and receives live bus status information. This information is displayed in the user interface.

User role: The GTFS interface.

Goal: Live bus stop information is accepted from the CTFastrak API and displayed to the user interface.

Reason: Traveler is able to view stops and live stop conditions on the map.

User Story #X: TITLE

Pre-condition:
Post-condition:
User role:
Goal:
Reason: