CTFastrak Application

Project backlog

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1. As a user, I want a map that uses all CTtransit data feeds throughout the state, so that I can see information in a larger radius.

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user has access to a map that spans all of the CTtansit system

2. As a user, I want a route based on all CTtransit data feeds throughout the state, so I can have a larger route be considered for calculation.

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user receives a route based on information throughout the entire CTtransit system.

3. As a user, I want multiple routes generated, so that I have multiples ways to get to the same place

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user has multiple route options available to choose from.

4. As a user, I want my options presented in a particular way, so that I can chose from the top 3 choices.

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user will be able to have route suggestions presented in a particular format when presented and selected.

5. As a user, I want the map display to change brightness and colors, so I can see the application clearly regardless of time of day.

- Pre-condition:
  The user is viewing the application.

- Post-condition:
  The user is seeing the map in day view, or night view as appropriate to time of day.

6. As a user, I want my route information to continue to be visible even if I lose connection, so I only need to request my route once.

- Pre-condition:
  The user loses connection to the data servers after having received a route recommendation.

- Post-condition:
  The user continues to have access to the existing route.

7. As a user, I want my route information to be stored, so my route continues to be accessible to me.

- Pre-condition:
  The user closes the application after having received a route recommendation.

- Post-condition:
  The user continues to have access to the existing route when the application is launched again.

8. As a user, I want the application to notify me every time the status of my bus changes, so I am aware of changes in my route.

- Pre-condition:
  The user has received a route recommendation.

- Post-condition:

The user will receive constant updates as to the bus they have queried.

9. As a user, I want the application to notify me via a popup window 15 minutes before my bus arrives, so I am aware of its arrival.

- Pre-condition:
  The user has received a route recommendation.

- Post-condition:
  The user will receive a notification via a popup 15 minutes early that the bus is on schedule.

Story 1 size: 5
Story 2 size: 8
Story 3 size: 5
Story 4 size: 3
Story 5 size: 3
Story 6 size: 5
Story 7 size: 5
Story 8 size: 3
Story 9 size: 3

$1 \times 0 = 0$
$2 \times 0 = 0$
$3 \times 4 = 12$
$5 \times 4 = 20$
$8 \times 1 = 8$
$13 \times 0 = 0$

$= 40$

Cumulative size:
40 / 3 ~= 13.3 ~= 13

To be implemented during the first iteration:

1. As a user, I can access all CTtransit data feeds throughout the state, so that I can see information in a larger radius.

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user has access to a map that spans all of the CTtransit system.

2. As a user, I want a route based on all CTtransit data feeds throughout the state, so I can have a larger route be considered for calculation.

- Pre-condition:
  The user must be registered and logged in to the application.

- Post-condition:
  The user receives a route based on information throughout the entire CTtransit system.

5. As a user, I want the map display to change brightness and colors, so I can see the application clearly regardless of time of day.

- Pre-condition:
  The user is viewing the application.

- Post-condition:
  The user is seeing the map in day view, or night view as appropriate to time of day.

The functionality that the system will have at the end of this iteration is that the user will be able to access data feeds throughout the state and will have a route suggestion generated. The user will also have the ability to change the map brightness to reflect day and night.

User interface sketches (subject to change in final project):

Screen 1 (Menu):

Plan new route

Check for delays

View bus schedules

My saved routes

Log off

Screen 2 (Map):

My route info:

Bus is running on time.
No constuction/traffic delays.
ETA: 3:45 pm