Use Case: Graphically view up to 10 tracks as a 2D plot.

Author: Stuart Harley
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User Story Description

As a User, I want to be able to select up to 10 tracks to graphically display as a 2D plot.

Identification of Actor(s)

User – User of the GPS

Pre-conditions

At least 1 track is loaded. Up to 10 tracks are loaded. All tracks that are loaded have at least 1 point. GUI is in idle state waiting for user input.

Scenarios

Basic/Normal Flow

User	System
1. Selects “Graphically view tracks”	
	2. Displays track selection screen.
3. Selects between 1-10 tracks to display	
	4. Displays track display screen, that displays tracks graphically on screen.

Alternate Flow 1: No Tracks Selected

User selects no tracks to display

User	System
1a. Selects “Graphically view tracks”	
	2a. Displays track selection screen.
3a. Selects no tracks	
	4a. Displays “No tracks selected” pop-up.

Post-conditions

On selecting tracks to display, the screen shows the selected tracks graphed color coded with a key indicating which color belongs to each track as well as the distance of each track.

Additional Requirements

Track Display Screen can be exited at any time by hitting the ‘X’ in the top right corner.
If no tracks have yet been loaded, the “Graphically view tracks” button will be disabled.
Available Tracks will be shown in the Track Display Screen

Additional Notes

Basic/Normal Flow

Actors
User

Boundary Elements
Main Screen/Menu
Select Tracks Screen
Track Display Screen

Control Systems
System

Entity Elements
Loaded Tracks

Alternate Flow 1: No Tracks Selected

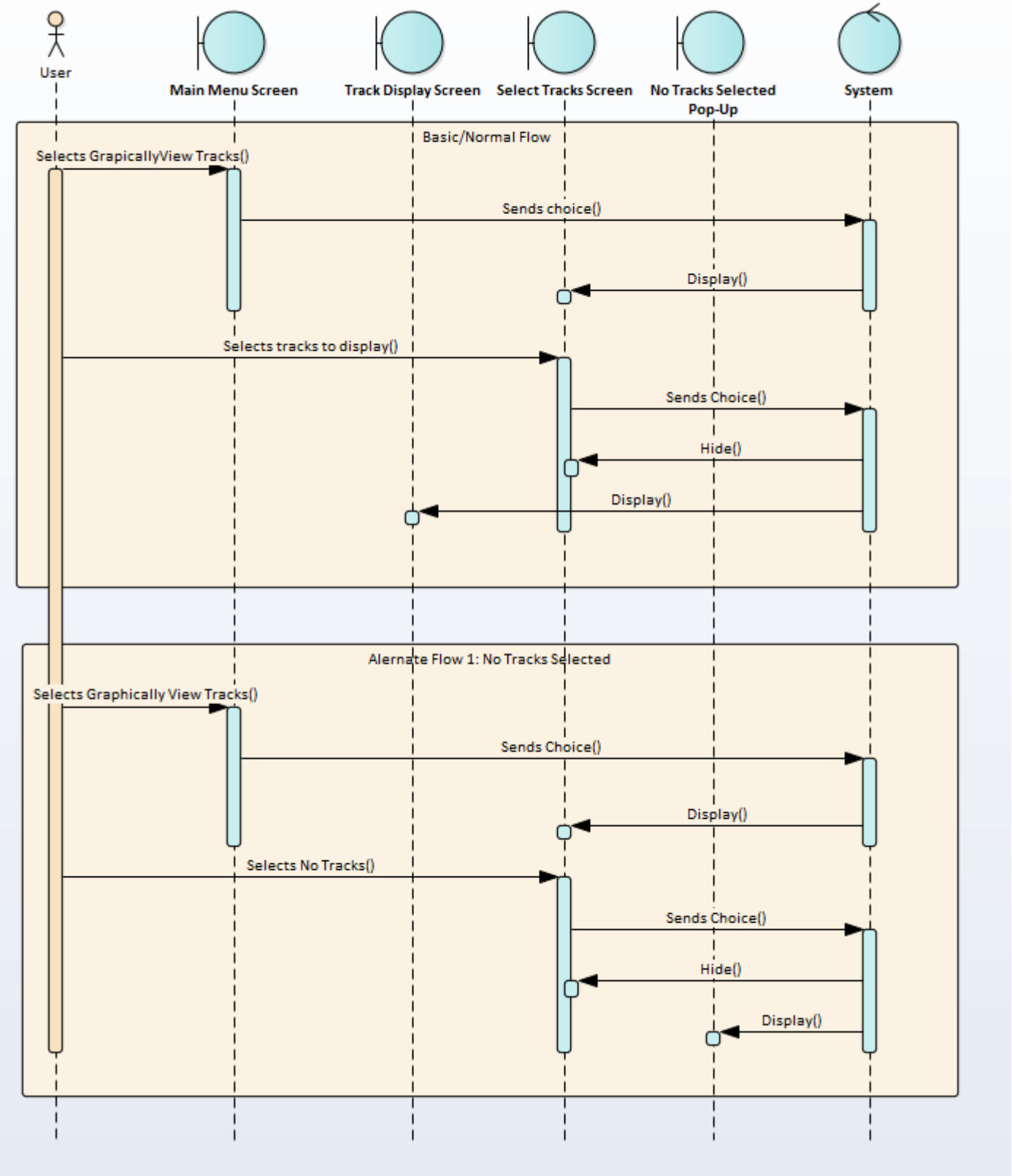
Actors
User

Boundary Elements
Main Screen/Menu
Select Tracks Screen
No Tracks Selected Pop-Up

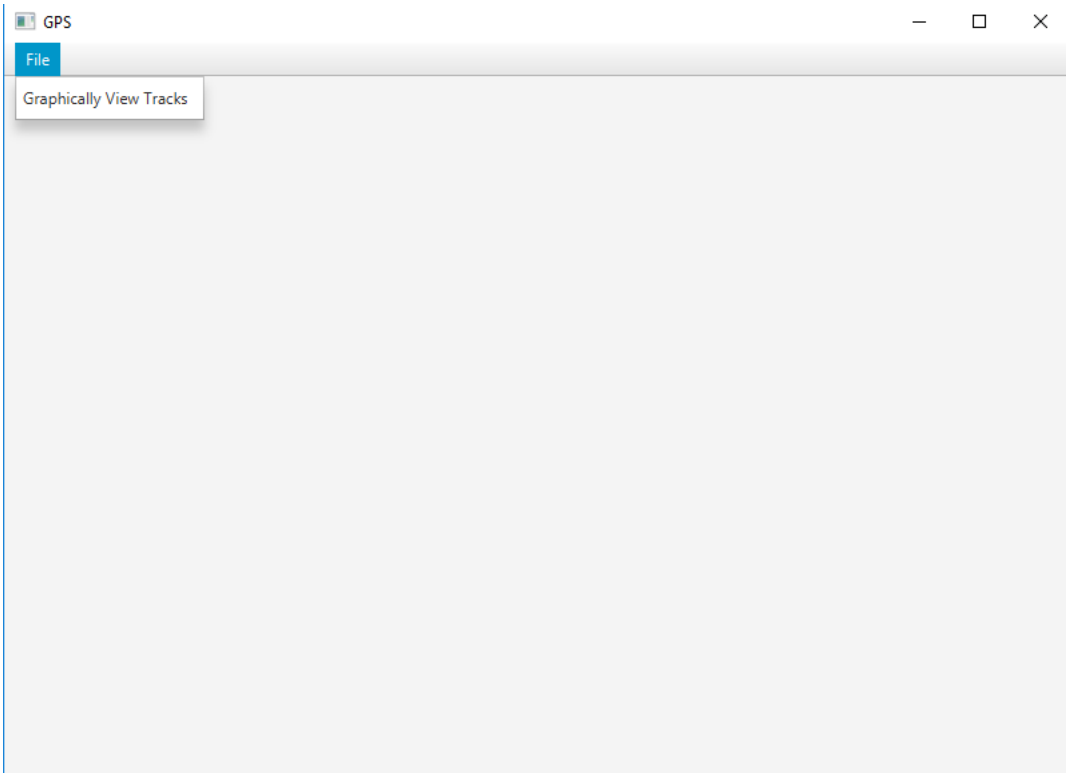
Control Systems
System

Entity Elements
Loaded Tracks

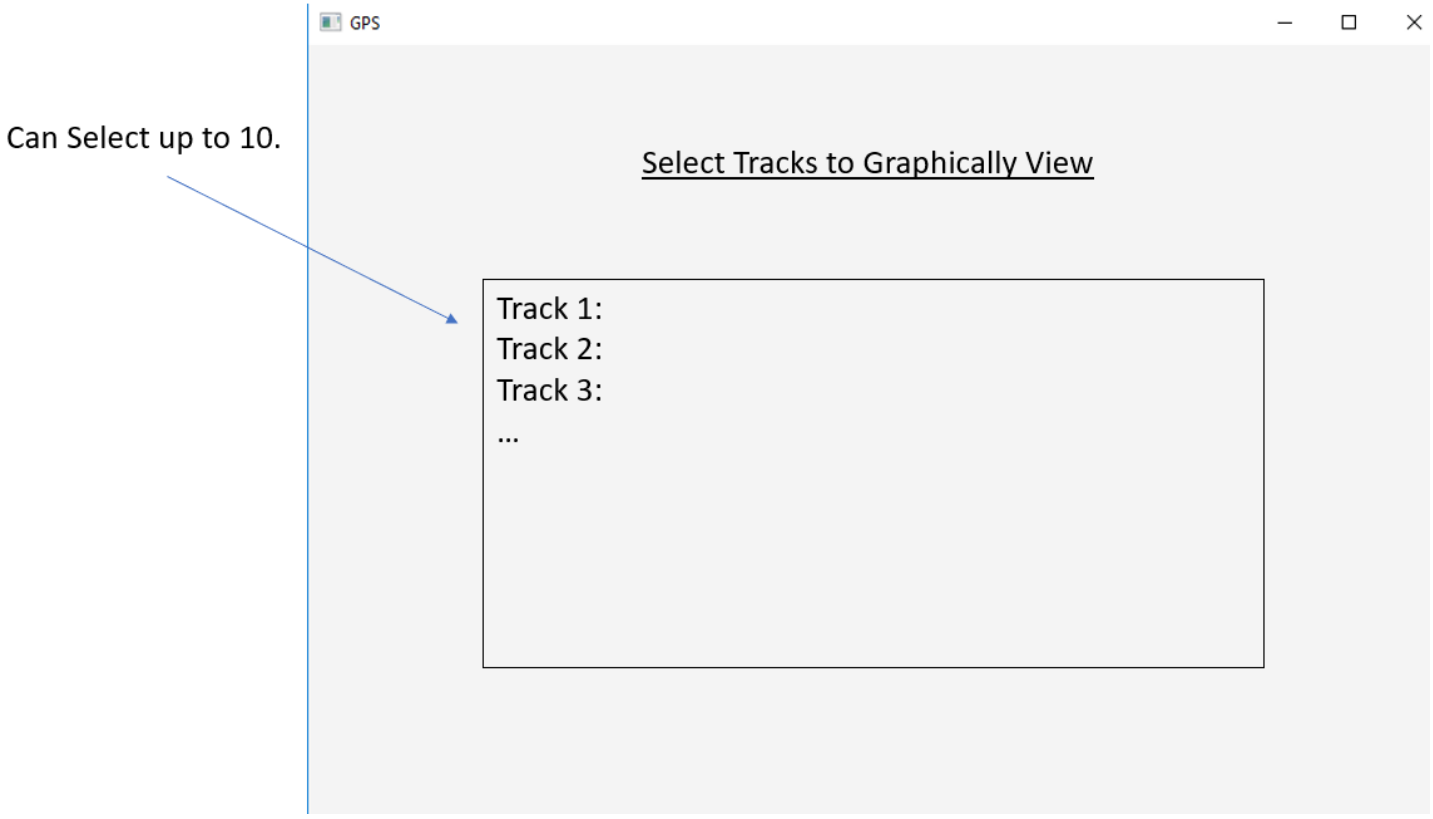
Sequence Diagrams



GPS Main Menu

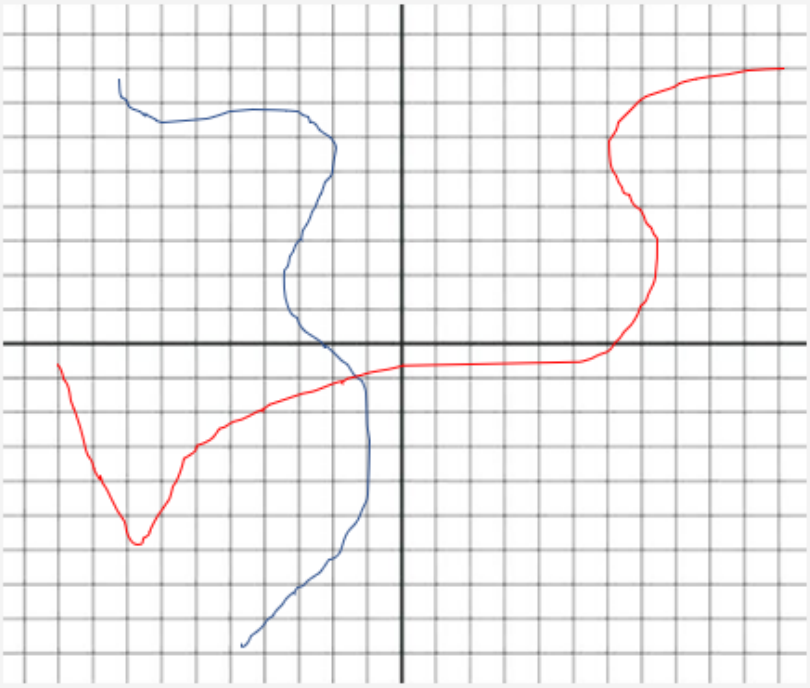


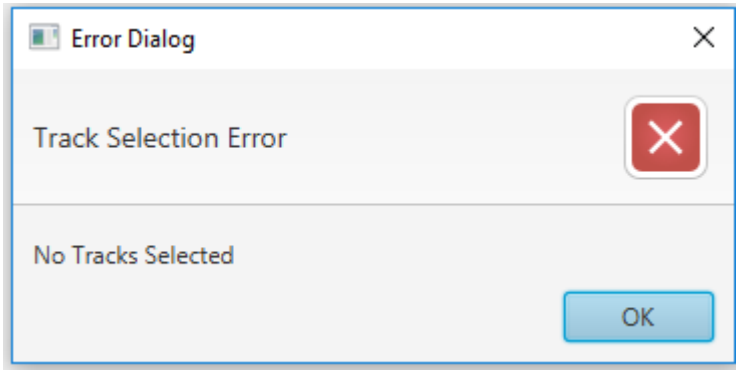
Track Selection Screen



Track Display Screen

GPS



Track	Distance(km)	Distance(mile)
1	100	60
2	150	90

No Tracks Selected Pop-up