Use Case: As a User, I want to display certain metrics for each loaded track.

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User Story Description

A user has loaded a track and using the points to display certain metrics relating to the specified track.

Identification of Actor(s)

Users of GPS

Pre-conditions

A track has been successfully loaded into the system with its points.

Scenarios

Basic/Normal Flow

Write down each of the steps in the **Main Path** required to achieve the Goal of this Use Case.
Each step should be described as an **action/response**; that is: an *action* initiated by an Actor and the subsequent *response* by the system**.
Modify the table below as needed to accommodate additional or fewer Actors or Steps.

Actor1	System	
1. Chooses which track to display		
	2. Calculate metrics based on track selected	
	3. displays the metrics of the chosen track	
4. View metrics displayed		

Alternate Flow N: Track contains 2 or fewer points

Briefly describe what alternative approach, error, or exception is being handled by this alternate flow.
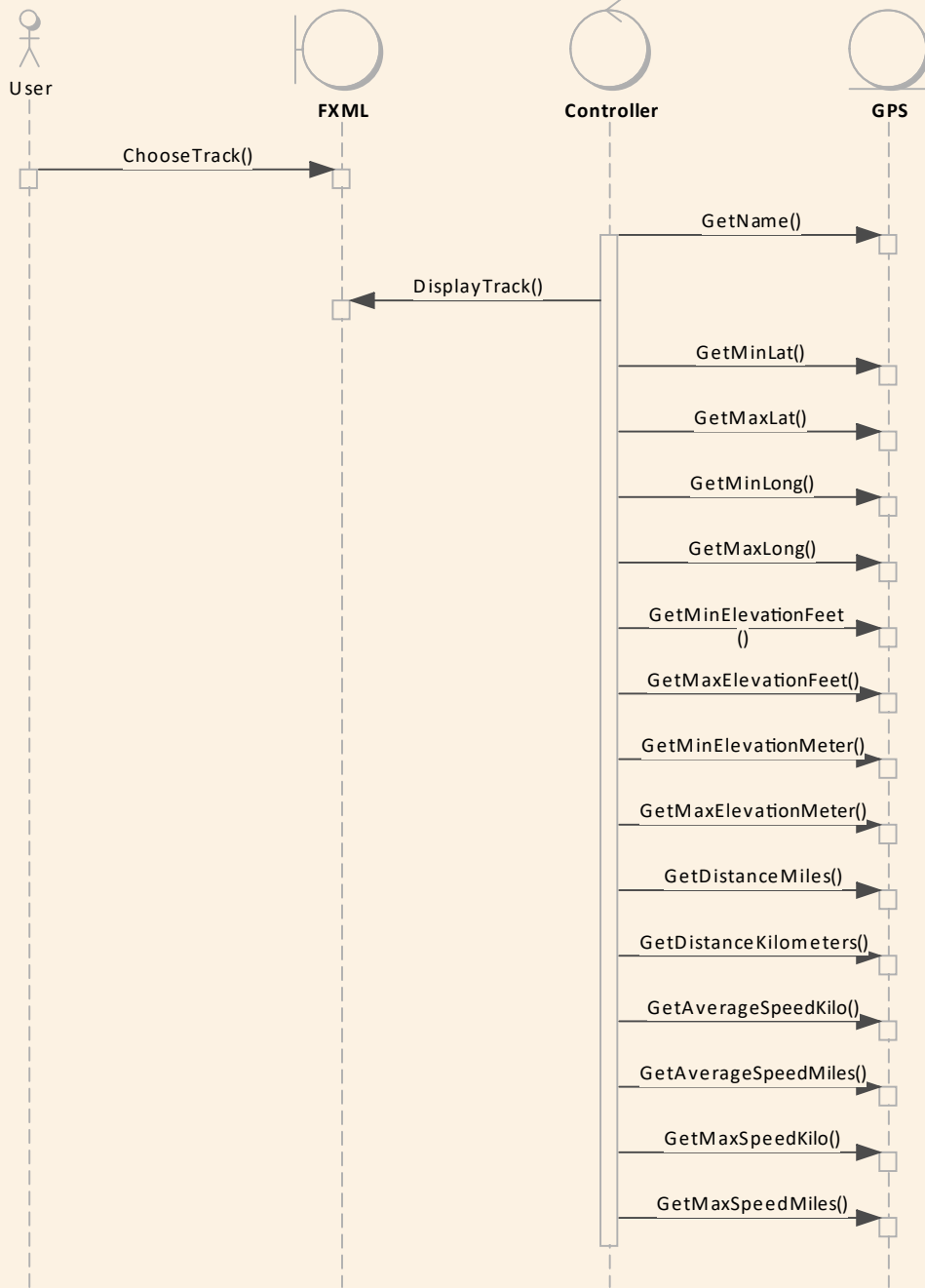Repeat this section as needed – there may be multiple Alternate Flows within a single Use Case.

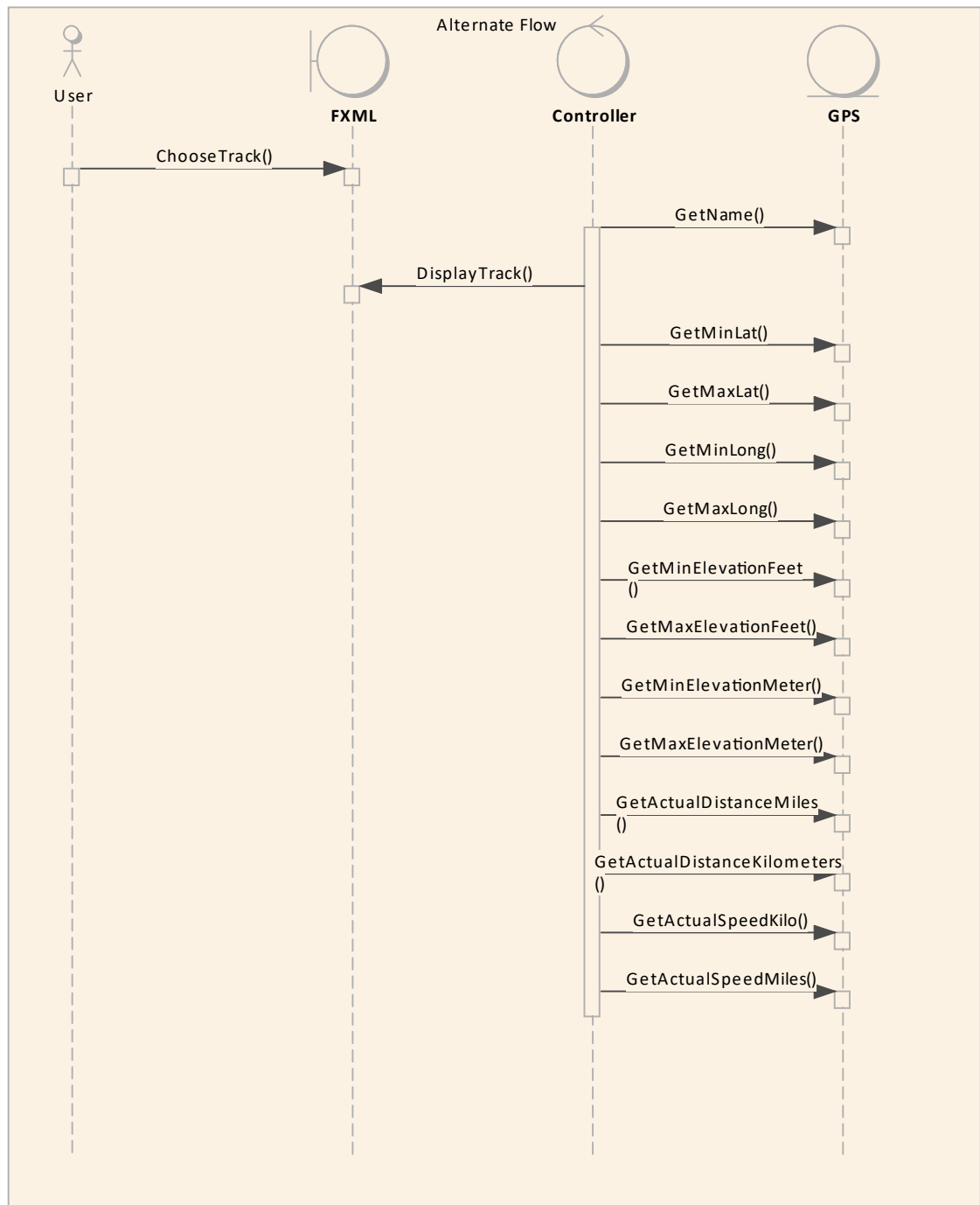| Actor1	System	Actor2
1. Chooses which track to display		
	2. Calculate Metrics based on track selected	
	3. Displays the metrics of the chosen track, displaying the actual speed and distance	
4. View metrics displayed		

Post-conditions

Metrics are displayed

list of elements missing

Normal Flow

User	FXML	Controller	GPS

User → FXML: ChooseTrack()

Controller → GPS: GetName()

Controller → FXML: DisplayTrack()

Controller → GPS: GetMinLat()

Controller → GPS: GetMaxLat()

Controller → GPS: GetMinLong()

Controller → GPS: GetMaxLong()

Controller → GPS: GetMinElevationFeet()

Controller → GPS: GetMaxElevationFeet()

Controller → GPS: GetMinElevationMeter()

Controller → GPS: GetMaxElevationMeter()

Controller → GPS: GetDistanceMiles()

Controller → GPS: GetDistanceKilometers()

Controller → GPS: GetAverageSpeedKilo()

Controller → GPS: GetAverageSpeedMiles()

Controller → GPS: GetMaxSpeedKilo()

Controller → GPS: GetMaxSpeedMiles()

User   FXML   Controller   GPS

ChooseTrack()

GetName()

DisplayTrack()

GetMinLat()

GetMaxLat()

GetMinLong()

GetMaxLong()

GetMinElevationFeet()

GetMaxElevationFeet()

GetMinElevationMeter()

GetMaxElevationMeter()

GetActualDistanceMiles()

GetActualDistanceKilometers()

GetActualSpeedKilo()

GetActualSpeedMiles()

Window

Tracks ▽

Min Latitude	Total Distance Miles
Max Latitude	**Total Distance Kilometers**
Min Longitude	Average Speed Km/hr
Max Longitude	Average Speed mph
Min Elevation ft	Max Speed Km/hr
Max Elevation ft	Max Speed mph
Min Elevation Meters	
Max Elevation Meters	