

Use Case: 1

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Date: [October 24, 2019](#)

User Story Description

As a user, I want to be able to load up to 10 GPS data files as acquired by a GPS device into the system.

Identification of Actor(s)

User

Pre-conditions

User has application opened and running.

Scenarios

Basic/Normal Flow

User	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects a file to be loaded	
	4. Reads through file and then stores key information in Track object which is added to collection class. Then displays success dialog with track info.
5. User sees dialog message	

Alternate Flow 1: Invalid File Chosen

User tries to load an invalid file and an Illegal Argument Exception is thrown.

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader, but the file isn't valid, so an exception is sent. Controller uses it for an error dialog
5. User sees error dialog	

Alternate Flow 2: Missing XML Element

User tries to load a gps file and an XML element is missing so an IOException is thrown

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader. File is read, but XML element is missing. IOException is thrown and an error dialog is created from the controller.
5. User sees error dialog	

Alternate Flow 3: Invalid/Unreadable Latitude

User tries to load a gps file and a Latitude value is invalid so an IOException is thrown

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader. File is read, but latitude value is invalid or can't be read. IOException is thrown and an error dialog is created from the controller.
5. User sees error dialog	

Alternate Flow 4: Invalid/Unreadable Longitude

User tries to load a gps file and a Longitude value is invalid so an IOException is thrown

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader. File is read, but longitude value is invalid or can't be read. IOException is thrown and an error dialog is created from the controller.
5. User sees error dialog	

Alternate Flow 5: Invalid Time Format

User tries to load a gps file, but a time value is invalid and can't be read, so an IOException is thrown

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader. The file is read, but a time value is invalid, so an IOException is thrown to the controller. The controller creates an error dialog
5. User sees error dialog	

Alternate Flow 6: Invalid/Unreadable Elevation

User tries to load an invalid file and an Illegal Argument Exception is thrown.

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User selects file to be loaded	
	4. File is sent to file reader. File is read, but an elevation value is found to be invalid so an IOException is thrown
5. User sees error dialog	

Alternate Flow 7: User Cancels File Chooser

User tries to load an invalid file and an Illegal Argument Exception is thrown.

Actor1	GPS App
1. User presses File/Load	
	2. Presents File Chooser to User
3. User cancels file chooser	
	4. Controller closes file chooser without an error occurring
5. User sees main menu	

Post-conditions

Success dialog appears indicating the name of the track loaded and how many points were loaded.
Updates the remaining number of allowable tracks to upload.

Additional Requirements

N/A

Success Dialog Message:

GPS File load successful.

Track name: <name>

Points loaded: <points>

Error Dialog Messages:

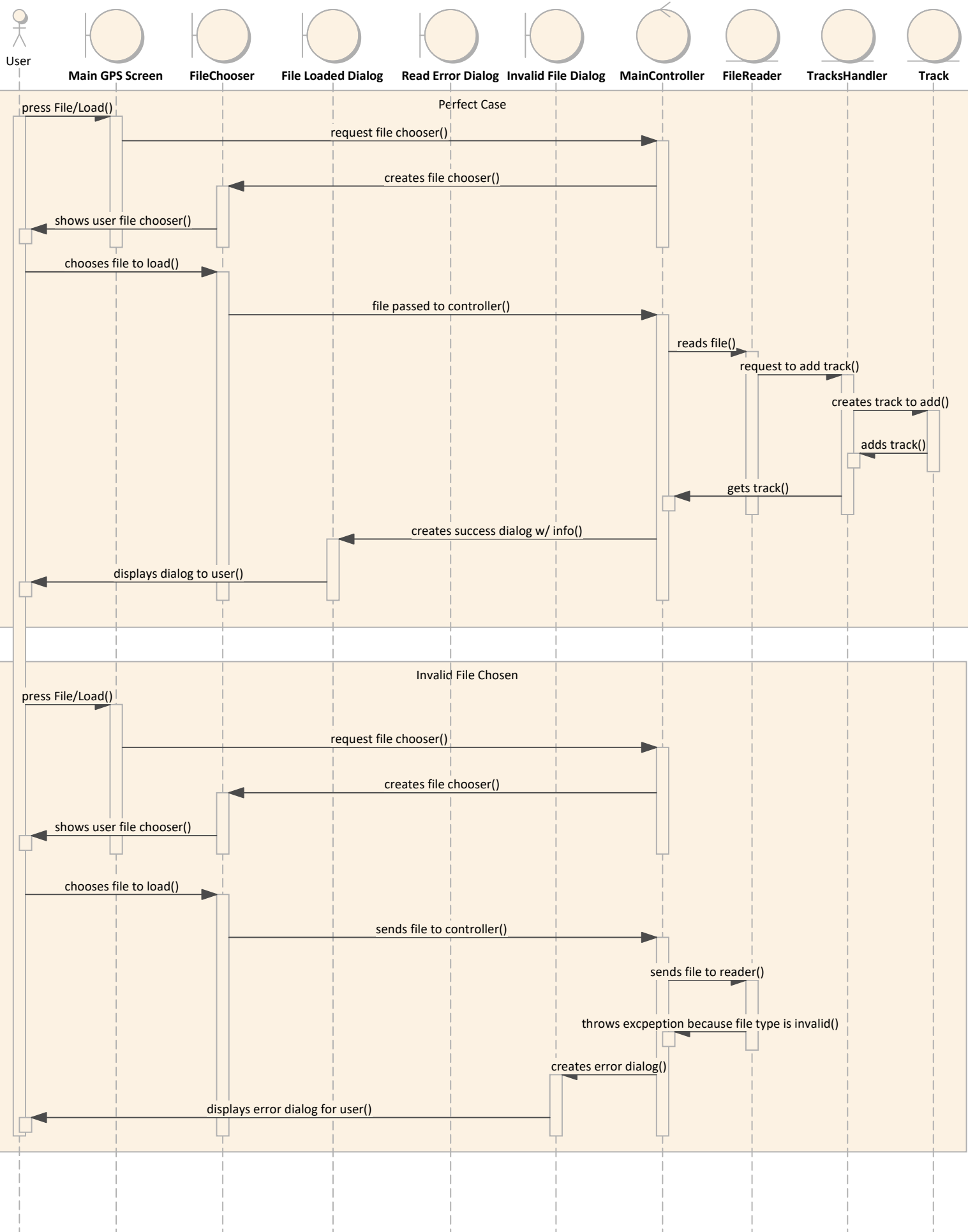
Invalid File:

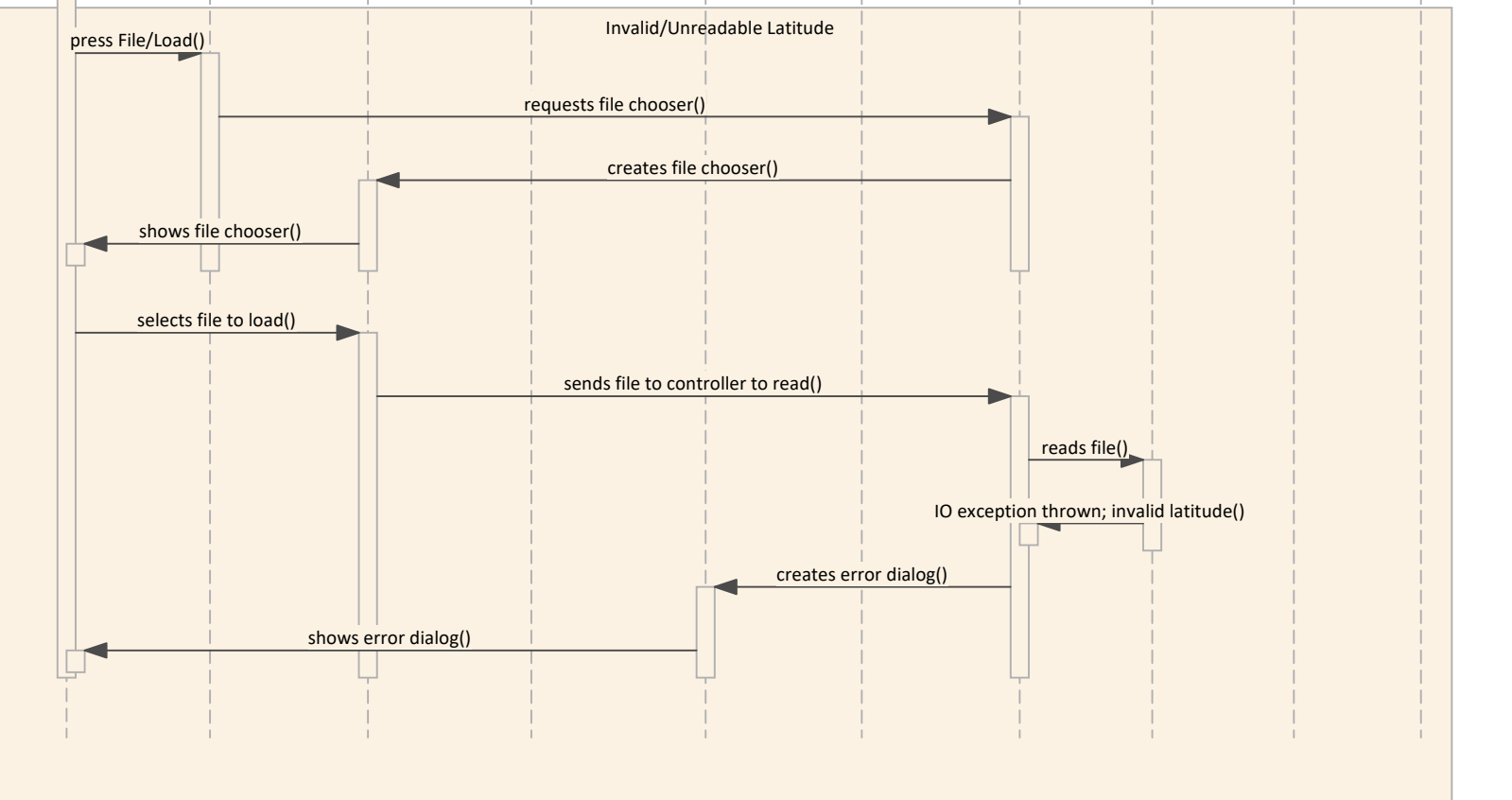
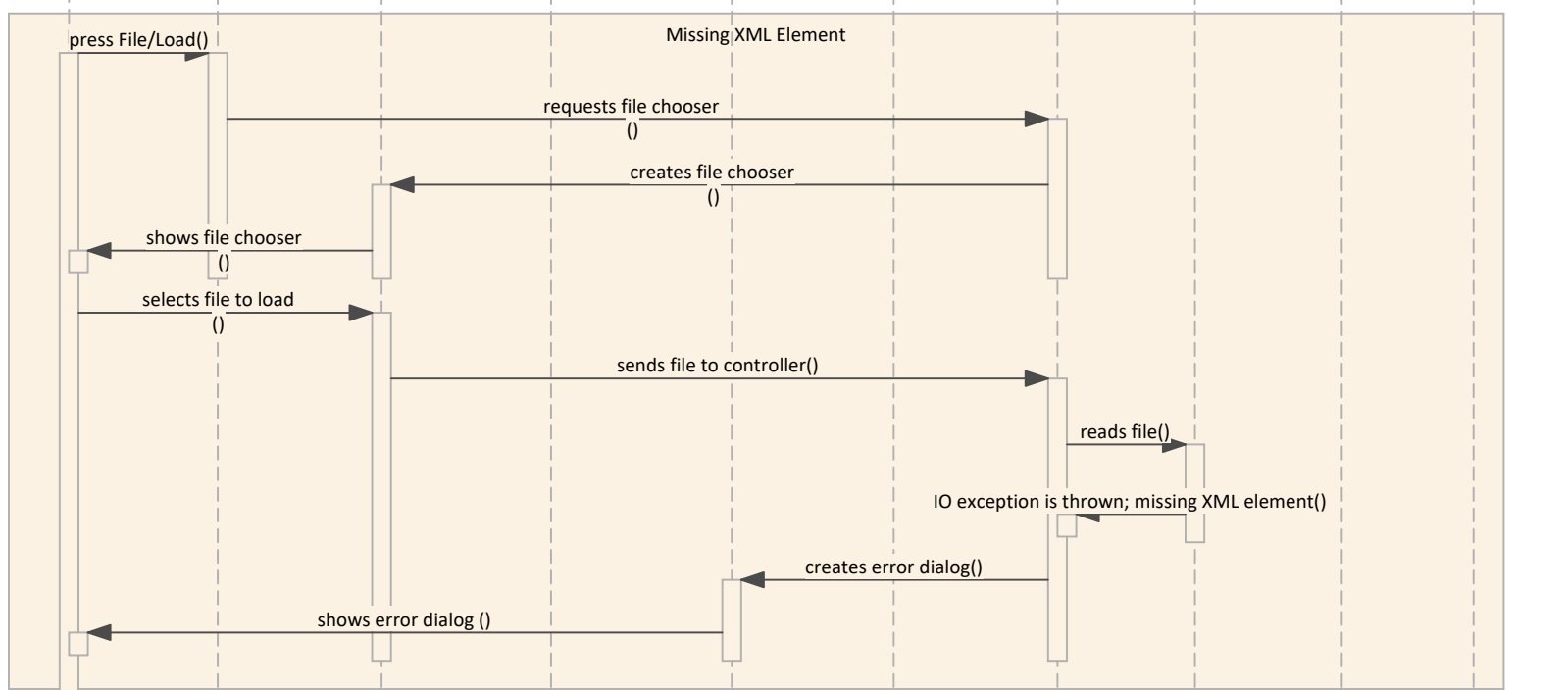
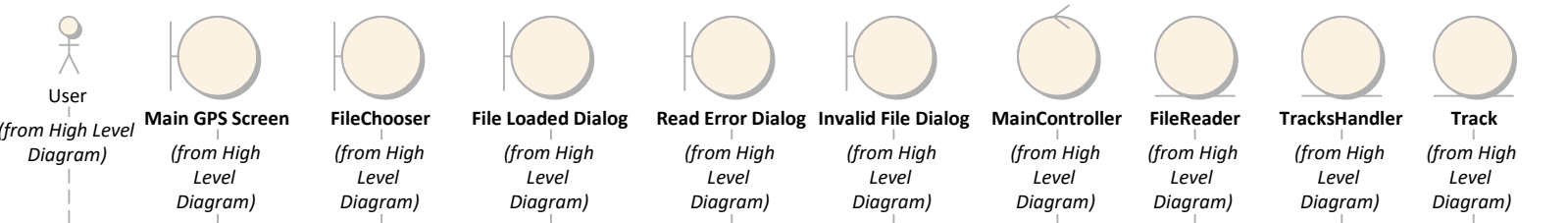
Invalid file error

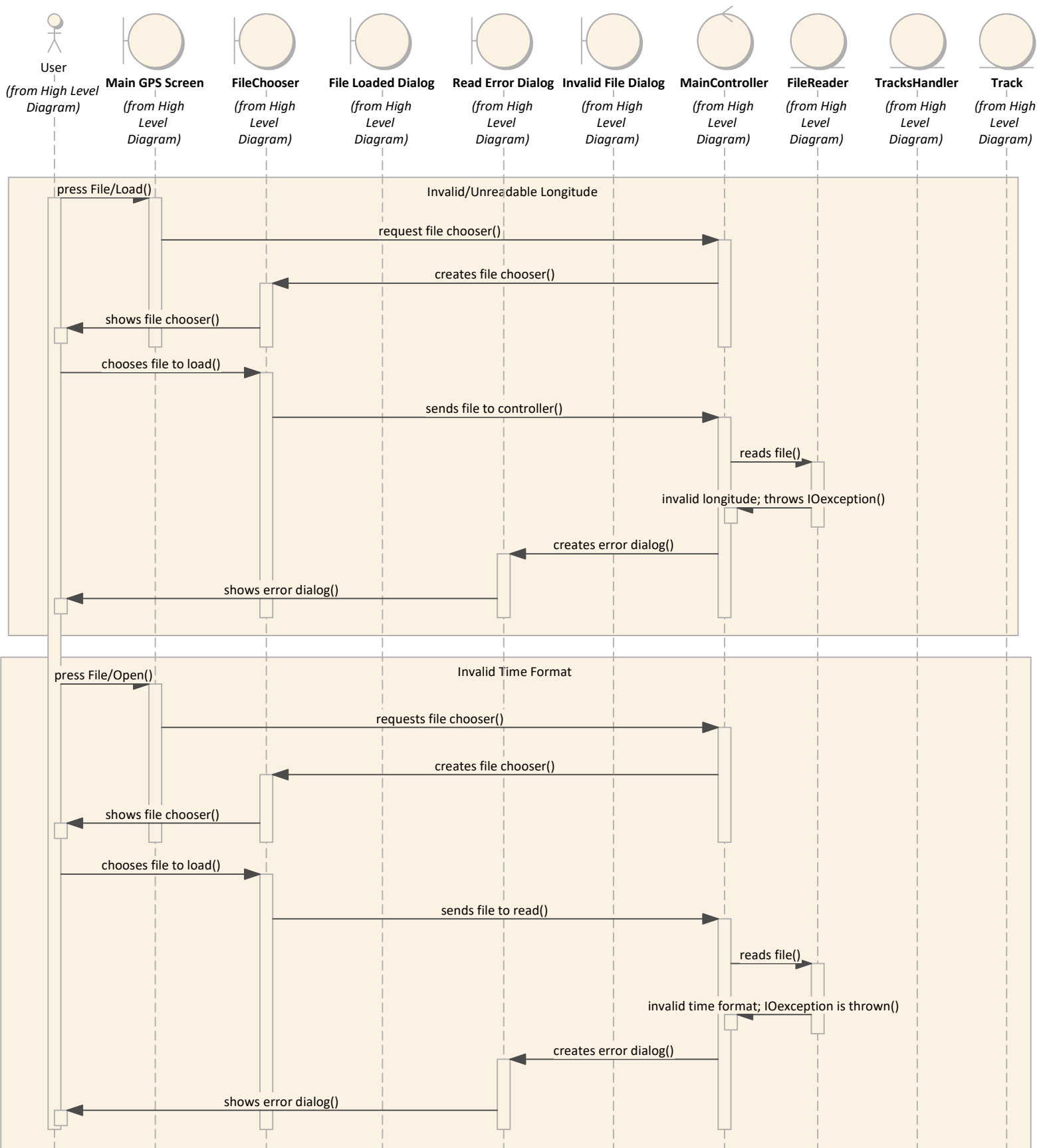
<file> is not supported (must be GPX)

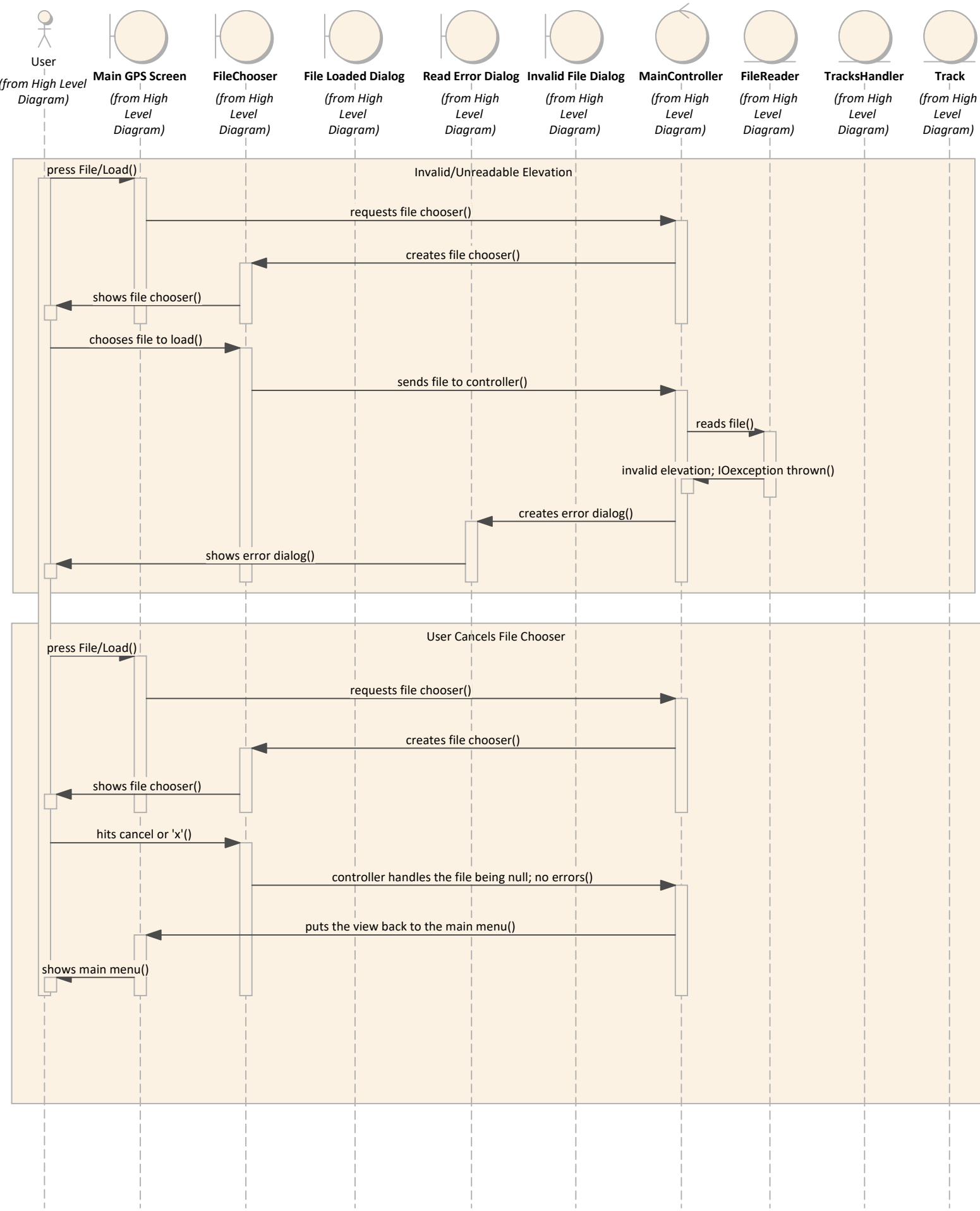
Read Error:

<Read Error> (Missing XML, Invalid Elevation, etc.) on line <line number>









Untitled

File

Available Tracks Remaining:

<Metrics Here>