Use Case: Loading GPS Data Files

Author: Anthony Lohmiller

Date: 10/28/2019

User Story Description

To load up to 10 GPS data files from a GPS device into the system.

Identification of Actor(s)

Client – user of the system

Pre-conditions

The app has been started and there is an available file menu with the proper commands.

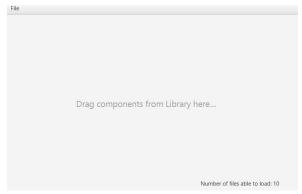
Scenarios

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.

Client	System
1. User selects file, open	
	2. System opens up file chooser
3. User selects 1 or more files to open	
	4. System loads file(s) and displays relevant information on the GUI
5. Steps 1-4 may repeat until a max of 10 files are loaded	





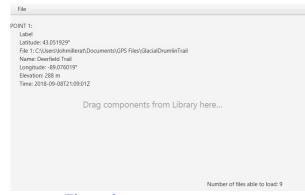


Figure 2

all these are the same and can be combined into a single alternate flow describing "error in file data". You can simply Alternate Flow 1: Wrortstrie different types of errors as a note.

The client selects a .txt file with no GPX data

Client	System
1. User selects file, open	
	2. System opens up file chooser
3. User selects 1 or more files, 1 or more are not GPX files	
	4. System displays alert with detailed error message and error location

Alternate Flow 2: Missing XML Element

The client selects a file that has a point missing an XML element

Client	System
1. User selects file, open	
	2. System opens up file chooser
3. User selects 1 or more files	
	4. System loads file(s) and encounters an error with a point, displaying an alert with a detailed error message and error location

Alternate Flow 3: Latitude/Longitude Error

The client loads a file containing an error with the latitude or longitude of a point

The enem loads a me containing of	The effect found a fire containing an error with the fatitude of forgitude of a point	
Client	System	
1. User selects file, open		
	2. System opens up file chooser	
3. User selects 1 or more files		
	4. System loads file(s) and encounters an error with a	
	point, displaying an alert with a detailed error message	
	and error location	

Alternate Flow 4: Time Format Error

The client loads a file containing an error with the time stamp of a point

The chefit loads a file containing t	an error with the time stamp or a point
Client	System
1. User selects file, open	
	2. System opens up file chooser
3. User selects 1 or more files	
	4. System loads file(s) and encounters an error with a point, displaying an alert with a detailed error message and error location

Alternate Flow 5: Elevation Error

The client loads a file containing an error with the elevation of a point

Client	System
1. User selects file, open	
	2. System opens up file chooser
3. User selects 1 or more files	
	4. System loads file(s) and encounters an error with a
	point, displaying an alert with a detailed error message
	and error location

Post-conditions

The loaded file will be passed to other methods for following cases and the GUI will be updated to display the loaded data

Additional Notes

Actors:

Client

Boundary Elements:

Menu bar File Chooser Loaded Point VBox Alert Error Box

Control Elements:

System (GPS loading app)

Entity Elements:

Client GPS files

Once loaded the files (containers for the data) become GPS data entities. A file is just the serialized representation of the data/entity.

