**System Test Plan**

Use the following test files (from Requirements page) :

***landmark\_file1.txt:***

LANDMARK\_ID,DESCRIPTION,TYPE

L01,Park Entrance,Location

L02,Entrance Fountain,Fountain

L03,Waste Station 1,Pet Waste Station

L04,Entrance Restrooms,Restroom

L05,Overlook 1,Overlook

L06,Rock Formation 1,Rock Formation

L07,Overlook 2,Overlook

L08,Overlook Restrooms,Restroom

L09,Waste Station 2,Pet Waste Station

L10,Hidden Gardens,Gardens

L11,Campsite 1,Campsite

L12,Campsite Restrooms,Restroom

***trail\_file1.txt:***

LANDMARK\_ID,LANDMARK\_ID,DISTANCE

L01,L02,3013

L01,L03,1046

L01,L04,1179

L02,L10,3613

L03,L05,4204

L04,L09,2311

L05,L06,1039

L06,L07,2912

L07,L08,1891

L11,L12,1066

To start the program, start TrailManagerUI.java

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results(From Requirements Page)** | **Actual Results** |
| **Test 1**  Test startTrailManager  (Equivalence class) | **Preconditions:** The user has loaded TrailManagerUI  **Steps:**   1. None | **Displays:**  Enter the path to the file containing landmark information: | **Displays:**  Enter the path to the file containing landmark information: |
| **Test 2**  Test failingPotentialFirstAid  (Boundary value) | **Preconditions:** The user has loaded TrailManagerUI  **Steps:**   1. The user inputs landmark\_file1.txt and trail\_file1.txt 2. User inputs “first aid” for type of report 3. User inputs 0 for desired minimum number of intersecting trails | **Displays:**  Number of intersecting trials must be greater than 0. | **Displays:**  Number of intersecting trails must be greater than 0. |
| **Test 3**  testPotentialFirstAid  (Equivalence Class) | **Preconditions:** The user has loaded TrailManagerUI  **Steps:**   1. The user inputs landmark\_file1.txt and trail\_file1.txt 2. User inputs “first aid” for type of report 3. User inputs 0 for desired minimum number of intersecting trails | **Displays:**  Proposed Locations for First Aid Stations {  Park Entrance (L01) - 3 intersecting trails  Entrance Fountain (L02) - 2 intersecting trails  Entrance Restrooms (L04) - 2 intersecting trails  Overlook 1 (L05) - 2 intersecting trails  Overlook 2 (L07) - 2 intersecting trails  Rock Formation 1 (L06) - 2 intersecting trails  Waste Station 1 (L03) - 2 intersecting trails  } | **Displays:**  Proposed Locations for First Aid Stations {  Park Entrance (L01) - 3 intersecting trails  Entrance Fountain (L02) - 2 intersecting trails  Entrance Restrooms (L04) - 2 intersecting trails  Overlook 1 (L05) - 2 intersecting trails  Overlook 2 (L07) - 2 intersecting trails  Rock Formation 1 (L06) - 2 intersecting trails  Waste Station 1 (L03) - 2 intersecting trails  } |
| **Test 4**  testDistances  (Equivalence Class) | **Preconditions:** The user has loaded TrailManagerUI  **Steps:**   1. The user inputs landmark\_file1.txt and trail\_file1.txt 2. User inputs “distance” for type of report 3. The user inputs “L02” for the landmark Id of the starting point | **Displays:**  Landmarks Reachable from Entrance Fountain (L02) {     3013 feet to Park Entrance (L01)     3613 feet to Hidden Gardens (L10)     4059 feet to Waste Station 1 (L03)     4192 feet to Entrance Restrooms (L04)     6503 feet (1.23 miles) to Waste Station 2 (L09)     8263 feet (1.56 miles) to Overlook 1 (L05)     9302 feet (1.76 miles) to Rock Formation 1 (L06)     12214 feet (2.31 miles) to Overlook 2 (L07)     14105 feet (2.67 miles) to Overlook Restrooms (L08)  } | **Displays:**  Landmarks Reachable from Entrance Fountain (L02) {  3013 feet to Park Entrance (L01)  3613 feet to Hidden Gardens (L10)  4059 feet to Waste Station 1 (L03)  4192 feet to Entrance Restrooms (L04)  6503 feet (1.23 miles) to Waste Station 2 (L09)  8263 feet (1.56 miles) to Overlook 1 (L05)  9302 feet (1.76 miles) to Rock Formation 1 (L06)  12214 feet (2.31 miles) to Overlook 2 (L07)  14105 feet (2.67 miles) to Overlook Restrooms (L08)  } |
| **Test 5**  testDistancesNotExisting  (Exceptions/unexpected inputs) | **Preconditions:** The user has loaded TrailManagerUI  **Steps:**   1. The user inputs landmark\_file1.txt and trail\_file1.txt 2. User inputs “distance” for type of report 3. The user inputs “L20” for the landmark Id of the starting point | **Displays:**  The provided landmark ID (L20) is invalid for the park. | **Displays:**  The provided landmark ID (L20) is invalid for the park. |