

GetOutdoors! Black Box Test Plan

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Introduction

GoOutdoors! Is a GUI that allows the user to keep track of and manage information relating to activities, parks, and trails. The user can add or edit activities, trails, and parks in this GUI. This information is stored in files that the GUI can save to and load this data from. This Black Box Test Plan will take the user through the major use cases detailed in the requirements to test whether the program is working correctly.

To start this application in the Eclipse IDE, right click on the **GoOutdoors!** java file and click **Run-As Java Application**.

Test ID	Description	Expected Results	Actual Results
Test 1 Valid Startup And Load From File	Preconditions: None Run GoOutdoors! Check results. Select File -> Open File at the top left of the GUI. Select GetOutdoorsFiles from the drop-down menu. Select the file NCSU.md in list of files and then click Open. Click the Activities tab if not already selected. Check Results. Click the Parks tab. Check Results. Click the Centennial Campus tab. Check Results. Click the Main Campus tab. Check Results.	The GUI loads with no error messages. Three tabs are present at the top of panel of the GUI: <i>Activities, Parks, Filter Trails</i> . The rows of information for each tab are empty. The GUI contains five tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus</i> . Three Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> Two Parks are listed: <i>park-0, Centennial Campus, Park contained on Engineering Campus, 1.0</i> <i>park-1, Main Campus, Lovely park on Main Campus, 0.0</i> Three Trails are listed: <i>park-0-0, Hunt Trail, false, 0.0, 0.75, EASY</i> <i>park-0-1, Lake Trail, true, 0.0, 2.5, EASY</i> <i>park-0-2, Oval Hilll, false, 0.0, 1.0, CHALLENGING</i>	The GUI loads with no error messages. Three tabs are present at the top of panel of the GUI: <i>Activities, Parks, Filter Trails</i> . The rows of information for each tab are empty. The GUI contains five tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus</i> . Three Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> Two Parks are listed: <i>park-0, Centennial Campus, Park contained on Engineering Campus, 1.0</i> <i>park-1, Main Campus, Lovely park on Main Campus, 0.0</i> Three Trails are listed: <i>park-0-0, Hunt Trail, false, 0.0, 0.75, EASY</i> <i>park-0-1, Lake Trail, true, 0.0, 2.5, EASY</i> <i>park-0-2, Oval Hilll, false, 0.0, 1.0, CHALLENGING</i>

		Two Trails are listed: <i>park-1-0, Bell Tower Trail, false, 0.0, 0.5, EASY</i> <i>park-1-1, Red Brick Road, true, 0.0, 1.5, MODERATE</i>	Two Trails are listed: <i>park-1-0, Bell Tower Trail, false, 0.0, 0.5, EASY</i> <i>park-1-1, Red Brick Road, true, 0.0, 1.5, MODERATE</i>
Test 2 Add Park	<p>Preconditions: Test 1 has passed.</p> <p>Select Park -> New Park at the top of the GUI</p> <p>Enter Wolf Park in the Park Name text field</p> <p>Enter Park on Wolf Campus into the Park Description text field.</p> <p>Enter None in the Latest SnowFall (snow change) text field.</p> <p>Click Add.</p> <p>Check Results.</p> <p>Click Ok.</p> <p>Enter 0 in the Latest SnowFall (snow change) text field.</p> <p>Click Add</p> <p>Check Results.</p> <p>Click on the Parks Tab.</p> <p>Check Results.</p> <p>Click on the third row in the Parks table (Wolf Park).</p>	<p>A pop-up displays with the message <i>Snowfall/change must be a double.</i></p> <p>The GUI contains six tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus, Wolf Park.</i></p> <p>Three Parks are listed: <i>park-0, Centennial Campus, Park contained on Engineering Campus, 1.0</i> <i>park-1, Main Campus, Lovely park on Main Campus, 0.0</i> <i>park-2, Wolf Park, Park on Wolf Campus, 0.0</i></p>	<p>A pop-up displays with the message <i>Snowfall/change must be a double.</i></p> <p>The GUI contains six tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus, Wolf Park.</i></p> <p>Three Parks are listed: <i>park-0, Centennial Campus, Park contained on Engineering Campus, 1.0</i> <i>park-1, Main Campus, Lovely park on Main Campus, 0.0</i> <i>park-2, Wolf Park, Park on Wolf Campus, 0.0</i></p>
Test 3 Add and Delete Trail	<p>Preconditions: Test 1 and 2 have passed.</p> <p>Select the <i>Wolf Park</i> Tab.</p> <p>Check Results.</p> <p>Select <i>Trail -> Add New Trail</i> at the top of the GUI.</p>	<p>No trails are listed in the TrailList table for Wolf Park.</p> <p>The Wolf park now contains one Trail : <i>Oval Hill.</i></p> <p><i>A pop-up message displays with the message: "Confirm Trail Delete".</i></p>	<p>No trails are listed in the TrailList table for Wolf Park.</p> <p>The Wolf park now contains one Trail : <i>Oval Hill.</i></p> <p><i>A pop-up message displays with the message: "Confirm Trail Delete".</i></p>

	<p>Enter <i>Pack Hill</i> in the Trail Name field</p> <p>Leave the Closed for Maintenance check-box unchecked.</p> <p>Enter <i>0</i> in the Snow Field</p> <p>Enter <i>1.5</i> in the Distance Field</p> <p>Leave the Closed for Maintenance check-box unchecked.</p> <p>Select <i>EXTREME</i> in the drop-down menu for Difficulty.</p> <p>Select the check-boxes <i>Bike</i>, <i>Ski</i> for the Activities.</p> <p>Select Add.</p> <p>Check Results.</p> <p>Select the only row in the table (<i>Pack Hill</i>)</p> <p>Select <i>Trail</i> -> <i>Delete Trail</i> from the top of the GUI.</p> <p>Check Results.</p> <p>Click Yes.</p> <p>Check Results.</p>	No trails are listed in the TrailList table for Wolf Park.	No trails are listed in the TrailList table for Wolf Park.
Test 4 Test Add Activity	<p>Preconditions: Test 1 has passed.</p> <p>Make sure Activities tab is selected.</p> <p>Click on Activities drop down menu, and select "Add Activity"</p> <p>Type in "Sled" for the name of the activity.</p> <p>Type "Sledding" for the Activity description.</p> <p>Check the "Need Snow?" checkbox</p> <p>Enter 3 for Snow Boundary</p> <p>Click "Add" button on the bottom right corner.</p> <p>Check results</p> <p>Click on Activities drop down menu and select "Add Activity" again.</p> <p>Type in "Snow Hiking" for the name of the activity</p> <p>Type in "Hiking in snow" for the activity description box.</p> <p>Check the "Need Snow?" checkbox.</p> <p>Enter -3 for the Snow Boundary.</p> <p>Click "Add"</p>	<p>Four Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i></p> <p>Error message dialog displays with the message "Snow boundary must be non-negative"</p> <p>Five Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i> <i>act-4,Snow Hiking,Hiking in snow,true,3</i></p>	<p>Four Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i></p> <p>Error message dialog displays with the message "Snow boundary must be non-negative"</p> <p>Five Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i> <i>act-4,Snow Hiking,Hiking in snow,true,3</i></p>

	<p>Check Results.</p> <p>Click Ok.</p> <p>Enter 3 for the Snow Boundary.</p> <p>Check Results.</p>		
<p>Test 5</p> <p>Test Filter Trails</p>	<p>Preconditions:</p> <p>Test 1, 2, and 4 passed.</p> <p>Select the Filter Trails tab.</p> <p>Select the Not Closed for maintenance radio button for the <i>Select maintenance/activity item</i>.</p> <p>Select the Centennial Campus radio button <i>Select maintenance/activity item</i>.</p> <p>Check Results.</p> <p>Select the Bike radio button for the <i>Select maintenance/activity item</i>.</p> <p>Check Results.</p> <p>Select the Ski radio button for the <i>Select maintenance/activity item</i>.</p> <p>Check Results.</p> <p>Click on the Parks tab.</p> <p>Select the first row (Centennial Campus).</p> <p>Enter 25 into the <i>Latest Snowfall(snow change)</i> text field.</p> <p>Click Save.</p> <p>Check Results.</p> <p>Select the Filter Trails tab.</p> <p>Select the Bike radio button for the <i>Select maintenance/activity item</i>.</p> <p>Select the Centennial Campus radio button <i>Select maintenance/activity item</i>.</p> <p>Check Results.</p> <p>Select the Ski radio button for the <i>Select</i></p>	<p>Two rows are listed: Hunt Trail and Oval Trail.</p> <p>One row is listed. Oval Hill.</p> <p>No rows are listed. Table is empty.</p> <p>In the first row in the table, 25.0 is listed as the Latest Snowfall/Change for Centennial Campus</p> <p>No rows are listed. Table is empty.</p> <p>One row is listed. Oval Hill.</p>	<p>Two rows are listed: Hunt Trail and Oval Trail.</p> <p>One row is listed. Oval Hill.</p> <p>No rows are listed. Table is empty.</p> <p>In the first row in the table, 25.0 is listed as the Latest Snowfall/Change for Centennial Campus</p> <p>No rows are listed. Table is empty.</p> <p>One row is listed. Oval Hill.</p>

	<p><i>maintenance/activity item.</i></p> <p>Check Results.</p>		
<p>Test 6 Test Closing and Saving</p>	<p>Preconditions: Test 1, 2, and 4 have passed.</p> <p>Click the red X button to try to close the application.</p> <p>Check results.</p> <p>Click "Cancel"</p> <p>Check results.</p> <p>Click "Ok"</p> <p>Check results</p> <p>Click "Ok"</p> <p>Check results.</p> <p>Go to the File menu and select "Save File" button to save the current state of the application.</p> <p>Save the file under Project3/test-files/ as WolfTest.md, with the file extension (.md)</p> <p>Click on the red X button to try to close the application.</p> <p>Check results.</p> <p>Start GetOutdoorsManager application.</p> <p>Go to File menu and select Open File button.</p> <p>Under Project3/test-files/ folder, open WolfTest.md</p> <p>Check results</p> <p>Click the Activities tab.</p> <p>Check Results.</p> <p>Click red X button to terminate the application.</p> <p>Check results</p>	<p>File save screen appears to let the user save the current state of the application.</p> <p>The dialog with error message "File not saved" appears.</p> <p>The dialog with error message "GetOutdoorsManager changes have not been saved. You will not be able to exit until changes are saved" appears.</p> <p>The error dialog closes and goes back to the application screen without exiting.</p> <p>The application exited successfully after saving the file.</p> <p>The GUI contains six tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus, Wolf Park.</i></p> <p>Five Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i> <i>act-4,Snow Hiking,Hiking in snow,true,3</i></p> <p>The application terminates.</p>	<p>File save screen appears to let the user save the current state of the application.</p> <p>The dialog with error message "File not saved" appears.</p> <p>The dialog with error message "GetOutdoorsManager changes have not been saved. You will not be able to exit until changes are saved" appears.</p> <p>The error dialog closes and goes back to the application screen without exiting.</p> <p>The application exited successfully after saving the file.</p> <p>The GUI contains six tabs at the top: <i>Activities, Parks, Filter Trails, Centennial Campus, Main Campus, Wolf Park.</i></p> <p>Five Activities are listed: <i>act-0, Bike, Biking,false,2</i> <i>act-1,Run,Running,false,5</i> <i>act-2,Ski,Skiing,true,25</i> <i>act-3,Sled,Sledding,true,3</i> <i>act-4,Snow Hiking,Hiking in snow,true,3</i></p> <p>The application terminates.</p>

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Document Revision History

Date	Author	Change Description
11/29/17	John Choi	<ul style="list-style-type: none">Created Black Box Test Plan Cases
12/1/17	Jonathan Balliet	<ul style="list-style-type: none">Combined and Edited Black Box Test Plan Cases