**Practicum - Team 1**

**ExploitLab (ExLab)**

**Testing Documentation**

1. **Test Plan** 
   1. **Introduction**

ExploitLab (ExLab) is a tool that automatizes the process of testing the effects of malicious software safely and efficiently. ExLab allows users to create scenarios that serve as test environments and easily create and connect Virtual Machines (VMs) that can serve as attackers or victims. Testing ExLab during its development ensures the correctness of the functionality put forth in the requirements established by the client. The following test plan establishes the steps taken to find and correct any bugs that might appear during the system’s development.

* 1. **Assumptions while testing the system**

When testing ExLab, is it assumed that every component needed to run the system is installed properly in the system.

* 1. **Approaches to be used while testing the system**

The main focus when testing the system is to ensure the functionality of the various components that make up the system. The functionality of the system will be tested by performing front-end tests with Selenium IDE. Test cases will follow a use case flow, where the functionality will be followed as a user would interact with the system. The test cases are divided into test steps that encapsulate the functionality of each component of the system. This approach is chosen to ensure that all the main functionality from the client’s requirements is present in the system.

* 1. **List of test cases used during the testing process**

The following test cases will be used as a base to ensure correct system functionality:

Upload a file to the system.

Create a new scenario.

Configure a scenario.

Setup scenario network.

Export/Delete/Import a scenario.

Explore the User Manual.

* 1. **Deliverable(s) to be tested**

The deliverable to be tested will be the one presented to the client on May 6th.

1. **Test Cases**
   1. **Upload a file to the system.**

**Test Case ID:** 001

**Purpose:** To ensure that files are correctly uploaded to the system.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>

The following test steps involve the actions necessary to upload a vulnerability/exploit file into the system for later use:

* + 1. **Click the Upload File button.**

**Objective:** Open the Upload File pop-up window.

**Notes:** The system is running on the landing page.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.01 | | | Current Status: Passed | |
| Test Title: Click on the Upload File button to open the Upload File pop-up window. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the Upload File button. | PURPOSE  To open the Upload File pop-up window. | EXPECTED RESULTS  The Upload File window opens. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Close the Upload File pop-up window by clicking “x”.**

**Objective:** Close the Upload File pop-up window successfully.

**Notes:** The Upload File pop-up window is open.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.02 | | | Current Status: Passed | |
| Test Title: Click “x” to successfully close the Upload File pop-up window and return to the landing page. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the “x” button on the Upload File pop-up window. | PURPOSE  To close the Upload File pop-up window. | EXPECTED RESULTS  The Upload File window closes. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Attempt to create a file without filling out fields.**

**Objective:** Produce the error that requires all required fields to be filled out.

**Notes:** The Upload File pop-up window is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.03 | | | Current Status: Passed | |
| Test Title: Attempt to create a file without filling out fields in order to produce an error. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the Upload button. | PURPOSE  To produce an error that requires most fields to be filled. | EXPECTED RESULTS  The Upload Name, File Description and Browse fields get a red alert that says “Please fill out this field”. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Fill out Upload File fields and Upload File.**

**Objective:** Form fields fill out correctly.

**Notes:** The Upload File pop-up window is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.04 | | | Current Status: Passed | |
| Test Title: Fill out fields from Upload File Window | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1  2  3  4  5 | OPERATOR ACTION  Click on the Upload Name field and fill it out with “TestUpload”.  Click on the File Description field and fill it out with “Test Description”.  Click on Choose File on the Browse field to choose open the host machine’s file system.  Choose a file from the file system to be uploaded.  Click on the Upload Button. | PURPOSE  Give the upload a name (required field).  Give the upload a description (required field).  Be able to choose a file to upload to the system.  Selecting a file as an upload.  Upload a file to the system with the selected fields. | EXPECTED RESULTS  The input is determined valid with a green checkmark.  The input is determined valid with a green checkmark.  The file system opens.  The file system closes, the file title appears next to the button and determined valid by a green checkmark.  The Upload File pop-up window closes, and a green alert appears at the top of the screen that says “File Uploaded”. | COMMENTS  Any file type is compatible. |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Check that files were uploaded successfully.**

**Objective:** Open the Files menu to ensure that files have been uploaded correctly.

**Notes:** The Landing Page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.05 | | | Current Status: Passed | |
| Test Title: Open the Files tab in order to see the list of uploaded files. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the Files button. | PURPOSE  To open the Files pop-up window. | EXPECTED RESULTS  The Files pop-up window opens and previously uploaded files are present. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Close the Files pop-up window.**

**Objective:** Produce the error that requires all required fields to be filled out.

**Notes:** The Files pop-up window is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.06 | | | Current Status: Passed | |
| Test Title: Close the Files pop-up window by clicking the “x” button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the “x” button. | PURPOSE  Close the Files pop-up window. | EXPECTED RESULTS  The Files pop-up window closes and the landing page becomes active. (<http://127.0.0.1:>5000/) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* + 1. **Delete a File from the system.**

**Objective:** Successfully delete an uploaded files from the system.

**Notes:** The uploaded file is delete from the system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 001.07 | | | Current Status: Passed | |
| Test Title: Successfully delete an uploaded file from the system. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the trash can icon | PURPOSE  To delete a file from the system. | EXPECTED RESULTS  The file is deleted from the system and no longer appears on the Files pop-up window. The Files pop-up window closes and the landing page becomes active. (<http://127.0.0.1:>5000/) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/06/2020 | | |

* 1. **Create a new scenario.**

**Test Case ID:** 002

**Purpose:** To ensure that scenarios are created correctly.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>

The following test steps involve the actions necessary to create a new scenario:

* + 1. **Open the New Scenario screen.**

**Objective:** Ensure that the form that creates a new scenario loads correctly.

**Notes:** The Landing Page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 002.01 | | | Current Status: Passed | |
| Test Title: Open the New Scenario page by pressing the New Scenario button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the New Scenario button. | PURPOSE  To open the New Scenario page. | EXPECTED RESULTS  The New Scenario screen opens. (<http://127.0.0.1:5000/new_scenario>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/07/2020 | | |

* + 1. **Closing the New Scenario screen.**

**Objective:** Ensure that the form that creates a new scenario closes correctly.

**Notes:** The New Scenario page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 002.02 | | | Current Status: Passed | |
| Test Title: Close the New Scenario page by pressing the Back button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Back button. | PURPOSE  To close the New Scenario page. | EXPECTED RESULTS  The New Scenario screen closes and the Landing Page becomes active. (<http://127.0.0.1:5000/>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/07/2020 | | |

* + 1. **Attempt to create a scenario without filling out forms.**

**Objective:** To produce an error when trying to create a scenario without filling out the required fields.

**Notes:** The New Scenario page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 002.03 | | | Current Status: Passed | |
| Test Title: Attempt to create a scenario without filling out required fields in order to produce an error. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Save button. | PURPOSE  To produce an error that signals user to fill out required fields. | EXPECTED RESULTS  The Scenario Name and Scenario Description fields get a red border and an alert that reads “Please fill out this field”. | COMMENTS  CVE Number, Exploits and Vulnerabilities are optional. |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/07/2020 | | |

* + 1. **Fill out New Scenario fields and create new scenario.**

**Objective:** Creating a new scenario successfully.

**Notes:** The landing page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 002.04 | | | Current Status: Passed | |
| Test Title: Fill out New Scenario fields and create new scenario correctly. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1  2  3 | OPERATOR ACTION  Click on the Scenario Name field and fill it out with “TestScenario”.  Click on the Scenario Description field and fill it out with “TestDescription”.  Click on the Save Button. | PURPOSE  To give a name to the scenario.  To give a description to the scenario.  The scenario is created with the previous information. | EXPECTED RESULTS  The Scenario Name field gets populated (id=scenario\_name).  The Scenario Description field gets populated (id=description).  Green checkmarks surround the form fields. The New Scenario page closes and the Configure Screen for that scenario opens (<http://127.0.0:5000/configure/1>) | COMMENTS  Scenario number page is allocated for each scenario created in order (1 if it’s the first one). |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/07/2020 | | |

* + 1. **Check that new scenario was created successfully.**

**Objective:** Verify that new scenario information was populated accurately.

**Notes:** The landing page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 002.05 | | | Current Status: Passed | |
| Test Title: Open the New Scenario page by pressing the New Scenario button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the scenario button on the Available Scenarios list. | PURPOSE  To see that scenario information was populated accurately. | EXPECTED RESULTS  Scenario information is populated on the box to the right of the button. (linkText=TestScenario) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/07/2020 | | |

* 1. **Configure a scenario.**

**Test Case ID:** 003

**Purpose:** To ensure that scenarios can be edited correctly.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>. There is at least one previously created scenario.

* + 1. **Open the Configure page.**

**Objective:** The Configure page loads correctly.

**Notes:** The Landing page is active. A scenario is currently active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.01 | | | Current Status: Passed | |
| Test Title: Open the Configure page by pressing the Configure button in the Landing Page. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Configure button in the Landing page. | PURPOSE  To navigate to the Configure page. | EXPECTED RESULTS  The Configure page becomes active (<http://127.0.0.1:5000/configure/1>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Exit the Configure page.**

**Objective:** Exit the Configure page and return to the Landing page.

**Notes:** The Configure page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.02 | | | Current Status: Passed | |
| Test Title: Exit the Configure page and return to the Landing page by clicking the Exit button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Exit button. | PURPOSE  To exit the Configure page and return to the Landing page. | EXPECTED RESULTS  The Configure page is closed and the Landing page becomes active (<http://127.0.0.1:5000>/) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Click the Back button.**

**Objective:** Return to the Landing page by pressing the Back button..

**Notes:** The Configure page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.03 | | | Current Status: Passed | |
| Test Title: Return to the Landing page by clicking the Back button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Back button. | PURPOSE  To return to the Landing page. | EXPECTED RESULTS  The Configure page is closed and the Landing page becomes active (<http://127.0.0.1:5000/>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Click the Add Machine Button.**

**Objective:** Verify that the Create VM page loads properly.

**Notes:** The Configure page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.04 | | | Current Status: Passed | |
| Test Title: Click the Add Machine Button to navigate to the Create VM page. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Add Machine button. | PURPOSE  To navigate to the Create VM page. | EXPECTED RESULTS  The Configure page is closed and the Create VM page becomes active. (http://127.0.0.1:5000/configure/1/machine/new) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Attempt to create a VM without filling forms.**

**Objective:** To produce an error that requires the user to fill out the required fields.

**Notes:** The Create VM page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.05 | | | Current Status: Passed | |
| Test Title: Attempt to create a VM without filling forms in order to produce an error that requires the user to fill out the required fields. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Save button. | PURPOSE  To create the error message. | EXPECTED RESULTS  The screen scrolls up to the Machine Name field and it produces an alert that reads “Please fill out this field”. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Create a VM successfully.**

**Objective:** Verify that every field that creates a VM works properly.

**Notes:** The Create VM page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.06 | | | Current Status: Passed | |
| Test Title: Create a VM successfully by filling out the required form fields. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the Machine Name field and populate it with “TestVM”.  Click the Save button. | PURPOSE  To name the VM.  To create the VM with the chosen name and other default settings. | EXPECTED RESULTS  VM information is populated (id=machine-name)  The Create VM screen closes and the Configure page becomes active, with the VM present. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Delete a VM from a scenario.**

**Objective:** Verify that the Delete VM button works.

**Notes:** The Configure page is active. The scenario contains at least one VM.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.07 | | | Current Status: Passed | |
| Test Title: Delete a VM form a scenario by clicking the Delete button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Delete VM button. | PURPOSE  To delete the VM. | EXPECTED RESULTS  The VM is deleted from the scenario. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Advance to Network Setup screen.**

**Objective:** Verify that the Next button works.

**Notes:** The Configure page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 003.08 | | | Current Status: Passed | |
| Test Title: Navigate to the Network Setup page by clicking the Next button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Next button. | PURPOSE  To navigate to the Network Setup screen. | EXPECTED RESULTS  The Configure screen is closed and the Network Setup screen is opened. (<http://127.0.0.1:5000/simple_network/1>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* 1. **Setup scenario network.**

**Test Case ID:** 004

**Purpose:** To test the network setup functionality.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>. There is at least one previously created scenario. The scenario contains at least one VM.

* + 1. **Click the Run button.**

**Objective:** Verify that the Run button works.

**Notes:** The Landing page is active. A scenario is selected.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 004.01 | | | Current Status: Passed | |
| Test Title: Navigate to the Network Setup page by clicking the Run button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Run button. | PURPOSE  To navigate to the Network Setup screen. | EXPECTED RESULTS  The Landing page is closed and the Network Setup screen is opened. (<http://127.0.0.1:5000/simple_network/1>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Exit the Network Setup screen.**

**Objective:** Verify that the Exit button works.

**Notes:** The Network Setup page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 004.02 | | | Current Status: Passed | |
| Test Title: Exit the Network Setup screen and return to the Landing page. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Exit button. | PURPOSE  To navigate to the Landing page. | EXPECTED RESULTS  The Network Setup page is closed and the Landing page is active. (<http://127.0.0.1:5000/>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Click the Back button.**

**Objective:** Verify that the Back button works.

**Notes:** The Network Setup page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 004.03 | | | Current Status: Passed | |
| Test Title: Navigate to the Configure page by clicking the Back button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Back button. | PURPOSE  To navigate to the Configuration page. | EXPECTED RESULTS  The Network Setup screen is closed and the Configure screen is opened. (<http://127.0.0.1:5000/configure/1/>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Edit the IP Address of a VM.**

**Objective:** Test changing the IP Address of a VM.

**Notes:** The Network Setup page is active. A VM is selected.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 004.04 | | | Current Status: Passed | |
| Test Title: Edit the IP Address of a VM by clicking the Edit button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1  2  3 | OPERATOR ACTION  Click the Edit button.  Edit the IP Address on the IP Address field.  Click the Save button. | PURPOSE  To navigate to the Edit IP Address screen.  To set the new IP Address.  To save the new IP Address. | EXPECTED RESULTS  The Edit IP Address screen is opened.  The IP Address field is populated with the new IP Address.  The IP Address is changed, the Edit IP Address screen is closed, and the change is reflected on the Network Setup screen. (<http://127.0.0.1:5000/simple_network/1>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* + 1. **Advance to the Build Screen.**

**Objective:** Verify that the Next Button works.

**Notes:** The Network Setup page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 004.05 | | | Current Status: Passed | |
| Test Title: Navigate to the Build page by clicking the Next button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Next button. | PURPOSE  To navigate to the Build screen. | EXPECTED RESULTS  The Network screen is closed and the Build screen is opened. (http://127.0.0.1:5000/build/1) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/09/2020 | | |

* 1. **Export/Delete/Import a scenario.**

**Test Case ID:** 005

**Purpose:** To test the import, export and deletion of a scenario.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>. There is at least one previously created scenario.

* + 1. **Click the Export button.**

**Objective:** Verify that a scenario is exported correctly.

**Notes:** The Landing page is active. A scenario is selected.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.01 | | | Current Status: Passed | |
| Test Title: Export a scenario to the host machine’s file system by clicking the Export button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Export button. | PURPOSE  To download scenario information to the host machine’s file system. | EXPECTED RESULTS  Selected scenario information is downloaded to the host machine’s default Downloads folder as a ZIP file. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* + 1. **Delete a scenario from the system.**

**Objective:** Verify that a scenario is deleted correctly.

**Notes:** The Landing page is active. A scenario is selected.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.02 | | | Current Status: Passed | |
| Test Title: Delete a scenario from the system by clicking the Delete button and confirming the Delete Confirmation pop-up window. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1  2 | OPERATOR ACTION  Click the Delete button.  Click the Confirm button. | PURPOSE  To activate the Delete pop-up window.  To confirm scenario deletion. | EXPECTED RESULTS  The Delete Confirmation pop-up window becomes active.  The Delete Confirmation pop-up window closes, the Landing page becomes active, and the selected scenario is no longer present. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* + 1. **Click the Import button.**

**Objective:** Verify that the Import button works.

**Notes:** The Landing page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.03 | | | Current Status: Passed | |
| Test Title: Click the Import button to open the Import Scenario pop-up window. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Import button. | PURPOSE  To open the Import Scenario pop-up window. | EXPECTED RESULTS  The Import Scenario pop-up window becomes active. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* + 1. **Close the Import Scenario pop-up window.**

**Objective:** Verify that the “x” button works.

**Notes:** The Import Scenario pop-up window is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.04 | | | Current Status: Passed | |
| Test Title: Close the Import Scenario pop-up window by clicking the "x" button. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the “x” button. | PURPOSE  To close the Import Scenario pop-up window. | EXPECTED RESULTS  The Import Scenario pop-up window closes. The Landing page becomes active (<http://127.0.0.1:5000/>) | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* + 1. **Import a Scenario.**

**Objective:** Verify that a scenario is imported correctly.

**Notes:** The Import Scenario pop-up window is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.05 | | | Current Status: Passed | |
| Test Title: Import a scenario by selecting a scenario ZIP file from the host machine's file system. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1  2  3  4 | OPERATOR ACTION  Click on the Scenario Name field and type “TestImport”.  Click on the Choose File button on the Browse field.  Select a valid scenario ZIP file form the host machine’s file system.  Click the Import button. | PURPOSE  To name the scenario to be imported.  To open the host machine's file system.  To use the selected file to create a scenario.  To close the Import Scenario pop-up window and return to the Landing page. | EXPECTED RESULTS  The form field is populated with “TestImport”.  The host machine's file system opens.  The Browse field is filled with the name oof the selected file.  The Import Scenario pop-up window closes, the Landing page becomes active and the imported scenario appears in the Available Scenarios list. | COMMENTS  Only ZIP files are valid import files. |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* 1. **Explore the User Manual.**

**Test Case ID:** 006

**Purpose:** To test the functionality of the system’s User Manual.

**Assumptions:** The system components have been correctly installed. The system is running.

**Pre-conditions:** The system is running and the user has navigated to <http://127.0.0.1:5000/>.

* + 1. **Click the Help (?) button.**

**Objective:** Verify that the Help(?) button works.

**Notes:** The Landing page is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 006.01 | | | Current Status: Passed | |
| Test Title: Click the Help(?) button to open the | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click the Help(?) button. | PURPOSE  To open the User Manual. | EXPECTED RESULTS  The system’s User Manual is opened in another browser tab. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |

* + 1. **Navigate to a category.**

**Objective:** Verify that the User Manual topics work correctly.

**Notes:** The User Manual tab is active.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Step ID: 005.04 | | | Current Status: Passed | |
| Test Title: Navigate to a category to clicking on the main menu. | | | | |
| Testing Approach: Navigate the window with Selenium IDE recording. | | | | |
| STEP  1 | OPERATOR ACTION  Click on the New Scenario topic. | PURPOSE  To make the New Scenario section active on the page. | EXPECTED RESULTS  The New Scenario tab becomes active. | COMMENTS |
| Concluding Remarks: None. | | | | |
| Testing Team: Team 1 members | | Date Completed: 05/11/2020 | | |