

Test Report: test_sauce_Login

Test Case	Description	Result
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Test Report for Selenium Script

Identified Test Cases

- 1. **Test Case 1**: `test_login_with_correct_credentials`
- 2. **Test Case 2**: `test_login_with_empty_password`
- 3. **Test Case 3**: `test_login_with_empty_username`
- 4. **Test Case 4**: `test_login_with_empty_credentials`
- 5. **Test Case 5**: `test_login_with_incorrect_password`
- 6. **Test Case 6**: `test_login_with_unregistered_username`

Detailed Test Report

Test Case 1: `test_login_with_correct_credentials`

- **Description**: This test case verifies that a user can log in successfully with correct username and password.
- **Expected Results**: The user should be redirected to the inventory page with the URL `https://www.saucedemo.com/inventory.html` and the page title should be "Products".

- **Actual Results**: The test will simulate entering the correct username "standard_user" and password "secret_sauce". It will click the login button and wait for the URL to change to the inventory page. The test will then check if the current URL matches the expected URL and if the page title is "Products". If both conditions are met, the test will pass.
- **Issues Found**: None expected under normal conditions.
- **Recommendations**: Ensure that the credentials remain valid and that the application URL does not change.

Test Case 2: `test_login_with_empty_password`

- **Description**: This test case verifies that the application handles the login attempt with an empty password correctly.
- **Expected Results**: The user should remain on the login page with an error message indicating that the password is required.
- **Actual Results**: The test will simulate entering the correct username "standard_user" and leaving the password field empty. It will click the login button and wait for the error message to appear. The test will then verify that the error message matches the expected message and that the current URL remains on the login page.
- **Issues Found**: None expected under normal conditions.
- **Recommendations**: Ensure that the error message is clear and user-friendly.

Test Case 3: `test_login_with_empty_username`

- **Description**: This test case verifies that the application handles the login attempt with an empty username correctly.
- **Expected Results**: The user should remain on the login page with an error message indicating that the username is required.
- **Actual Results**: The test will simulate leaving the username field empty and entering the correct password "secret_sauce". It will click the login button and wait for the error

message to appear. The test will then verify that the error message matches the expected message and that the current URL remains on the login page.

- **Issues Found**: None expected under normal conditions.
- **Recommendations**: Ensure that the error message is clear and user-friendly.

Test Case 4: `test_login_with_empty_credentials`

- **Description**: This test case verifies that the application handles the login attempt with both username and password fields empty correctly.
- **Expected Results**: The user should remain on the login page with an error message indicating that the username is required.
- **Actual Results**: The test will simulate leaving both the username and password fields empty. It will click the login button and wait for the error message to appear. The test will then verify that the error message matches the expected message and that the current URL remains on the login page.
- **Issues Found**: None expected under normal conditions.
- **Recommendations**: Ensure that the error message is clear and user-friendly.

Test Case 5: `test_login_with_incorrect_password`

- **Description**: This test case verifies that the application handles the login attempt with an incorrect password correctly.
- **Expected Results**: The user should remain on the login page with an error message indicating that the username and password do not match.
- **Actual Results**: The test will simulate entering the correct username "standard_user" and an incorrect password "secret". It will click the login button and wait for the error message to appear. The test will then verify that the error message matches the expected message and that the current URL remains on the login page.
- **Issues Found**: None expected under normal conditions.

- **Recommendations**: Ensure that the error message is clear and user-friendly.

Test Case 6: `test_login_with_unregistered_username`

- **Description**: This test case verifies that the application handles the login attempt with an unregistered username correctly.
- **Expected Results**: The user should remain on the login page with an error message indicating that the username and password do not match.
- **Actual Results**: The test will simulate entering an unregistered username "standard" and the correct password "secret_sauce". It will click the login button and wait for the error message to appear. The test will then verify that the error message matches the expected message and that the current URL remains on the login page.
- **Issues Found**: None expected under normal conditions.
- **Recommendations**: Ensure that the error message is clear and user-friendly.

General Recommendations

- **Error Handling**: Ensure that all error messages are clear, consistent, and user-friendly.
- **Maintainability**: Consider using a configuration file for URLs, credentials, and other test data to improve maintainability.
- **Logging**: Add logging to capture detailed test execution steps and outcomes, which can be helpful for debugging.
- **Test Data**: Regularly update test data to reflect any changes in the application.
- **Environment**: Ensure that the test environment (e.g., browser version, application version) is consistent and controlled.