

Test Case Scenario Report: Form Automation

1. Introduction

This document contains the test report for the Selenium form automation script created to automate the process of filling out and submitting a form on a sample webpage using Python and Selenium.

2. Test Environment

The following test environment was used to execute the form automation script:

- Operating System: macOS
- Python Version: 3.12
- Libraries/Tools:
 - Selenium (version 4.31.0)
 - webdriver-manager (version 4.0.2)
- Browser: Chrome (latest version)

3. Test Steps

The following steps were executed to test the form automation script:

1. Set up the required Python environment and installed necessary dependencies using pip:
 - selenium
 - webdriver-manager
2. Wrote the Selenium script to automate the process of filling out a form on a sample website.
3. Ran the script and observed the browser filling out the form and submitting it.
4. Closed the browser after submission.

3. Script Description

The script automates the following steps:

- Launches the Chrome browser using Selenium and WebDriver Manager.
- Navigates to `https://www.w3schools.com/html/html_forms.asp`
- Locates form fields (First Name and Last Name) using their `name` attributes.
- Fills the fields with predefined input: `John Doe`
- Submits the form by clicking the submit button.
- Waits for user input to close the browser.

4. Test Cases Executed

Test Case ID	Description	Expected Result	Actual Result	Status
TC001	Launch browser and load the form page	Page loads successfully	Page loaded successfully	Pass
TC002	Locate first name input field	Field is found	Field found	Pass
TC003	Locate last name input field	Field is found	Field found	Pass
TC004	Enter text into both fields	Fields are filled with correct data	Fields filled with John and Doe	Pass
TC005	Locate and click submit button	Form is submitted	Submit button clicked	Pass
TC006	Handle exceptions and browser closure	Error is printed or browser quits	Input prompt showed, browser closed	Pass

5. Test Results

The following results were observed after running the script:

1. The browser successfully opened the target webpage.
2. The script filled out the form with the data: First Name - 'John', Last Name - 'Doe'.
3. The form was submitted successfully.
4. The browser closed automatically after a brief pause.
5. No errors or exceptions were encountered during the execution.

6. Issues Encountered

During the test execution, no significant issues were encountered. The script executed successfully as expected.

7. Conclusion

The form automation script has passed the tests successfully. It successfully automates the process of filling out and submitting a form on a sample webpage using Selenium.