# 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.