Framework Execution

1. Introduction

This document provides a step-by-step guide on executing test cases in a Hybrid Test Automation Framework using TestNG with multiple browser support (Chrome, Firefox, and Edge).

Of Site: https://www.demoblaze.com/

2. Test Cases Overview

Test Case	Description
Test Case 1	Verify user sign-up, log-in, and welcome message displaying the correct email ID.
Test Case 2	Verify adding a product to the cart.
Test Case 3	Verify adding another product to the cart.

3. Steps to Run the Test Cases

Step 1: Install Required Dependencies

Ensure the following dependencies are added to your 'pom.xml':

1. junit

2. testng

3. poi

4. extentreports

5. poi-ooxml

6. selenium-java

7. log4j-core

8. log4j-api

9. commons-email

10. mail

11. aws-java-sdk

12. video-recorder-testng

13. sonar-plugin-api

Step 2: Configure Multi-Browser Execution

Modify the BaseTest.java class to initialize WebDriver for Chrome, Firefox, and Edge based on input parameters.

Step 3: Implement Test Cases

Ensure test cases for User Sign-Up, Adding Product to Cart, and Verifying Items in Cart are correctly implemented with logging for Extent Reports.

Step 4: Create testng.xml for Parallel Execution

Configure TestNG to run the tests in multiple browsers by adding the following configuration:

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Test Parallel" thread-count="3" parallel="tests">

        <test name="Microsoft Edge">

                <parameter name="browser" value="IE">
```

```xml
            <classes>

                    <class
name="com.blackTouch.testcases.newTabs"></class>

            </classes>

        </parameter>

        </test>

        <test name="Chrome">

        <parameter name="browser" value="chrome">

            <classes>

                    <class
name="com.blackTouch.testcases.newTabs"></class>

            </classes>

        </parameter>

        </test>


        <test name="Firefox">

        <parameter name="browser" value="firefox">

            <classes>

                    <class
name="com.blackTouch.testcases.newTabs"></class>

            </classes>

        </parameter>

    </test>

</suite>
```

Step 5: Execute the Test Suite

Run the TestNG suite using one of the following methods:

1. In Eclipse: Right-click testng.xml > Run as TestNG Suite

Step 6: View Extent Report

After execution, open the generated Extent Report:

Navigate to `test-output/ExtentReport.html` and open it in a browser to view test execution details, logs, and screenshots.

Summary

> Configured multi-browser support (Chrome, Firefox, Edge)
> Implemented three functional test cases
> Enabled parallel execution using TestNG
> Integrated Extent Reports for detailed logging and screenshots