**Testing:-**

**1) Selenium Test NG :-**

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

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

<suite name=*"Suite"*>

<test name=*"Test"*>

<classes>

<class name=*"mytest.Program1"*></class>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>miniproject</groupId>

<artifactId>miniproject</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.3.0</version>

</dependency>

</dependencies>

<build>

<sourceDirectory>src</sourceDirectory>

<plugins>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.5.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

**package** mytest;

**import** java.time.Duration;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.testng.Assert;

**import** org.testng.annotations.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

**import** org.testng.annotations.Test;

**public** **class** program1 {

WebDriver driver;

@BeforeMethod

**public** **void** setUp()

{

System.*setProperty*("webdriver.chorme.driver","C:\\Users\\AYUSH\\Downloads\\chromedriver\_win32\\chromedriver.exe");

driver=**new** ChromeDriver();

driver.get("www.amazon.in");

driver.manage().window().maximize();

driver.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(5));

}

@Test

**public** **void** verifyTitle()

{

String actualTitle=driver.getTitle();

String expectedTitle="Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in";

Assert.*assertEquals*(actualTitle,expectedTitle);

}

@Test

**public** **void** verifyLogo()

{

**boolean** flag=driver.findElement(By.*xpath*("//a[@id='nav-logo-sprites']")).isDisplayed();

Assert.*assertTrue*(flag);

}

@AfterMethod

**public** **void** tearDown()

{

driver.quit();

}

}

**2) Cucumber :-**

CucumberJavaProject/pom.xml

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>CucumberJavaProject</groupId>

<artifactId>CucumberJavaProject</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-java</artifactId>

<version>5.7.0</version>

</dependency>

<!-- https://mvnrepository.com/artifact/junit/junit -->

<dependency>

<groupId>JUNIT</groupId>

<artifactId>JUNIT</artifactId>

<version>4.13</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-junit -->

<dependency>

<groupId>io.cucumber</groupId>

<artifactId>cucumber-JUNIT</artifactId>

<version>5.7.0</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

Login.feature

#Author

#Date

#Description

@SmokeFeature

Feature: feature to test login functionality

@smoketest

Scenario: Check login is successful with vaild credentials

Given User is on login page

When user enters username and password

And clicks on login button

Then user is navigated to the home page

LoginStep.java

package StepDefinition;

import io.cucumber.java.en.And;

import io.cucumber.java.en.Given;

import io.cucumber.java.en.Then;

import io.cucumber.java.en.When;

public class LoginSteps {

@Given("User is on login page")

public void user\_is\_on\_login\_page() {

System.out.println("Inside Step - User is on login page");

}

@When("user enters username and password")

public void user\_enters\_username\_and\_password() {

System.out.println("Inside Step - user enters username and password");

}

@And("clicks on login button")

public void clicks\_on\_login\_button() {

System.out.println("Inside Step - clicks on login button");

}

@Then("user is navigated to the home page")

public void user\_is\_navigated\_to\_the\_home\_page() {

System.out.println("Inside Step - user is navigated to the home page");

}

}

package StepDefinition;

import org.junit.runner.RunWith;

import io.cucumber.junit.CucumberOptions;

import io.cucumber.junit.Cucumber;

@RunWith(Cucumber.class)

@CucumberOptions(features="src/test/resources/Features",glue={"StepDefinitions"},

monochrome= true,

plugin = {"pretty","junit:target/JunitReports/report.xml",

"json:target/JSONReports/report.json",

"html:target/HtmlReports"},

tags="@smoketest"

)

public class TestRunner {

}

report.xml

<?xml version=*"1.0"* encoding=*"UTF-8"* standalone=*"no"*?>

<testsuite errors=*"0"* failures=*"0"* name=*"io.cucumber.core.plugin.JUnitFormatter"* skipped=*"1"* tests=*"1"* time=*"0.73"*>

<testcase classname=*"feature to test login functionality"* name=*"Check login is successful with vaild credentials"* time=*"0.056"*>

<skipped><![CDATA[Given User is on login page.................................................passed

When user enters username and password............passed

And clicks on login button........................................ passed

Then user is navigated to the home page.................................... passed

]]></skipped>

</testcase>

</testsuite>

{}report.json

[

{

"line": 6,

"elements": [

{

"start\_timestamp": *"2023-01-19T11:26:31.607Z"*,

"line": 9,

"name": *"Check login is successful with vaild credentials"*,

"description": *""*,

"id": *"feature-to-test-login-functionality;check-login-is-successful-with-vaild-credentials"*,

"type": *"scenario"*,

"keyword": *"Scenario"*,

"steps": [

{

"result": {

"status": *"undefined"*

},

"line": 11,

"name": *"User is on login page"*,

"match": {},

"keyword": *"Given "*

},

{

"result": {

"status": *"undefined"*

},

"line": 12,

"name": *"user enters username and password"*,

"match": {},

"keyword": *"When "*

},

{

"result": {

"status": *"undefined"*

},

"line": 13,

"name": *"clicks on login button"*,

"match": {},

"keyword": *"And "*

},

{

"result": {

"status": *"undefined"*

},

"line": 14,

"name": *"user is navigated to the home page"*,

"match": {},

"keyword": *"Then "*

}

],

"tags": [

{

"name": *"@SmokeFeature"*

},

{

"name": *"@smoketest"*

}

]

}

],

"name": *"feature to test login functionality"*,

"description": *""*,

"id": *"feature-to-test-login-functionality"*,

"keyword": *"Feature"*,

"uri": *"file:src/test/resources/Features/login.feature"*,

"tags": [

{

"name": *"@SmokeFeature"*,

"type": *"Tag"*,

"location": {

"line": 5,

"column": 1

}

}

]

}

]

Index.xml

<!DOCTYPE html>

<html>

<head>

<meta charset=*"utf-8"*>

<title>Cucumber Features</title>

<link href=*"style.css"* rel=*"stylesheet"*>

<script src=*"jquery-3.4.1.min.js"*></script>

<script src=*"formatter.js"*></script>

<script src=*"report.js"*></script>

</head>

<body>

<div class=*"cucumber-report"*></div>

</body>

</html>