**2.15 Automate the Web Application**

DESCRIPTION

**Project objective:**

Use the website link given to you and automate different functionalities for the same. Create a new project and include all the dependencies in the class path. Create a Java class that will contain your automation and test scripts. Run the project using TestNG.

**Code Snippets**

**Program1.java**

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.AfterGroups;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.AfterSuite;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeMethod;

import org.testng.annotations.Test;

public class **Program1** {

WebDriver driver;

@BeforeMethod

public void setUp() {

System.setProperty("webdriver.chrome.driver", "C:\\Users\\vmb44\\Desktop\\chromedriver.exe");

driver = new ChromeDriver();

driver.get("https://amazon.in");

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

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

// driver.close();

}

@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);

if(actualTitle == expectedTitle) {

System.out.println("Both the titles match");

}

else {

System.out.println("The titles does not match with each other");

}

driver.quit();

}

@Test

public void verifyLogo() {

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

Assert.assertTrue(flag);

System.out.print("If the Logo matches, prints as true else false: " +flag);

driver.quit();

}

// Amazon Registration process using @Test annotation

@Test

public void verifyRegistration() throws InterruptedException {

driver.get("https://www.amazon.in/ap/register?openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier\_select&openid.assoc\_handle=inflex&openid.mode=checkid\_setup&openid.claimed\_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier\_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0");

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

Thread.sleep(2000);

driver.findElement(By.id("ap\_customer\_name")).sendKeys("Vishwanath Bagali");

Thread.sleep(2000);

driver.findElement(By.id("ap\_phone\_number")).sendKeys("8765432123");

Thread.sleep(2000);

driver.findElement(By.id("ap\_email")).sendKeys("vmb44011@gmail.com");

Thread.sleep(2000);

driver.findElement(By.id("ap\_password")).sendKeys("Vishu@12345");

Thread.sleep(2000);

driver.findElement(By.xpath("//input[@id='continue']")).click();

Thread.sleep(2000);

String at = driver.getTitle();

System.out.println("Driver title: "+ at);

String st= "Authentication required";

if(at.equalsIgnoreCase(st))

{

// If the credentials entered are correct the right output is detected and printed as success else failed

System.out.println("Registration successfully");

}

else

{

System.out.println("Could not register the user, kindly enter the valid data");

}

driver.quit();

}

// Amazon Login process using @Test annotation, to validate the user

@Test

public void verifyYLogin() throws InterruptedException {

driver.navigate().to("https://www.amazon.in/ap/signin?openid.pape.max\_auth\_age=0&openid.return\_to=https%3A%2F%2Fwww.amazon.in%2F%3F\_encoding%3DUTF8%26adgrpid%3D58507629306%26ext\_vrnc%3Dhi%26gclid%3DCj0KCQjw166aBhDEARIsAMEyZh49BAHZr2MkQN6X1lta2wC9Vkrnp8lVGy1CHaA6zRQaAfgmKUzTmeUaAib9EALw\_wcB%26hvadid%3D486388034337%26hvdev%3Dc%26hvdvcmdl%3D%26hvlocint%3D%26hvlocphy%3D9062011%26hvnetw%3Dg%26hvpone%3D%26hvpos%3D%26hvptwo%3D%26hvqmt%3De%26hvrand%3D17084038091954731564%26hvtargid%3Dkwd-28878962%26hydadcr%3D14456\_2154379%26ref%3Dpd\_sl\_1cfjttkdmt\_e%26tag%3Dgooghydrabk1-21%26ref\_%3Dnav\_newcust&prevRID=D0F2ABJZC2NSZKCWSC4V&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier\_select&openid.assoc\_handle=inflex&openid.mode=checkid\_setup&openid.claimed\_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier\_select&pageId=inflex&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0");

driver.findElement(By.id("ap\_email")).sendKeys("vmb4401@gmail.com");

Thread.sleep(2000);

driver.findElement(By.xpath("//input[@id='continue']")).click();

Thread.sleep(2000);

Thread.sleep(2000);

driver.findElement(By.id("ap\_password")).sendKeys("Vishu@00000");

driver.findElement(By.xpath("//input[@id='signInSubmit']")).click();

String lat = driver.getTitle();

System.out.println("Driver title: "+ lat);

String lst= "Amazon Sign In";

if(lat.equalsIgnoreCase(lst))

{

System.out.println("Login successfully");

}

else

{

System.out.println("Could not login as the user entered invalid credentials");

}

driver.quit();

}

@Test

public void verifyZCart() throws InterruptedException {

driver.get("https://www.amazon.in/");

Thread.sleep(2000);

driver.findElement(By.id("twotabsearchtextbox")).sendKeys("samsung galaxy s");

Thread.sleep(2000);

driver.findElement(By.id("nav-search-submit-button")).click();

Thread.sleep(3000);

driver.findElement(By.id("p\_89/Samsung")).click();

Thread.sleep(3000);

driver.findElement(By.partialLinkText("Samsung Galaxy S21 5G (Phantom Violet, 8GB, 128GB Storage)")).click();

Thread.sleep(5000);

driver.quit();

System.out.println("Driver is exited, process execution is successful");

}

@AfterGroups

public void tearDown() {

driver.quit();

}

}

**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 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>Automation\_Web\_App</groupId>

<artifactId>Automation\_Web\_App</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>4.5.0</version>

</dependency>

</dependencies>

<build>

<sourceDirectory>src</sourceDirectory>

<plugins>

<plugin>

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

<version>3.8.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

**testing.xml**

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

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

<**suite** name=*"Suite"*>

<**test** thread-count=*"5"* name=*"Test"*>

<**classes**>

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

</**classes**>

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

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