## 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.openga.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 {
```

 $driver.navigate().to("https://www.amazon.in/ap/signin?openid.pape.max_auth_age=0 \& openid.return_to=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ad grpid%3D58507629306%26ext_vrnc%3Dhi%26gclid%3DCj0KCQjw166aBhDEARIsAMEy Zh49BAHZr2MkQN6X1lta2wC9Vkrnp8lVGy1CHaA6zRQaAfgmKUzTmeUaAib9EALw_wcB%26hvadid%3D486388034337%26hvdev%3Dc%26hvdvcmdl%3D%26hvlocint%3D%26hvlocphy%3D9062011%26hvnetw%3Dg%26hvpone%3D%26hvpos%3D%26hvptwo%3D%26hvptwo%3D%26hvqmt%3De%26hvrand%3D17084038091954731564%26hvtargid%3Dkwd-28878962%26hydadcr%3D14456_2154379%26ref%3Dpd_sl_1cfjttkdmt_e%26tag%3Dgoog hydrabk1-$ 

21%26ref\_%3Dnav\_newcust&prevRID=D0F2ABJZC2NSZKCWSC4V&openid.identity=htt p%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.n et%2Fauth%2F2.0%2Fidentifier\_select&pageId=inflex&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0");

```
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
 <dependencies>
  <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-
java -->
<dependency>
   <groupId>org.seleniumhq.selenium
    <artifactId>selenium-java</artifactId>
    <version>4.5.0
</dependency>
 </dependencies>
 <build>
   <sourceDirectory>src</sourceDirectory>
    <plugins>
     <plugin>
       <artifactId>maven-compiler-plugin</artifactId>
       <version>3.8.1
       <configuration>
         <source>1.8</source>
         <target>1.8</target>
       </configuration>
     </plugin>
    </plugins>
  </build>
</project>
```

# testing.xml