# **Phase-End Project 5**

## **Automate an E-Commerce Web Application**

#### **Description:**

Flipkart is an e-commerce platform, and they have launched a new feature to search for a product in a particular category. Once the product is searched, Flipkart displays it as a list of product items. To enhance the performance of the application, Flipkart has implemented lazy loading. It displays only a few products that can come on the screen.

To display or load more products, the user must scroll down.

As a Test Engineer, you are expected to test this feature end-to-end.

## **Code Snippets**

### WebApp.java

```
package automate e com web app;
import org.openqa.selenium.By;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
public class WebApp {
     WebDriver driver;
     @BeforeMethod
     public void auto setUp() throws InterruptedException {
          System.setProperty("webdriver.chrome.driver",
"C:\\Users\\vmb44\\Desktop\\chromedriver.exe");
          driver = new ChromeDriver();
          Thread. sleep (2000);
          System.out.println("The Operations are performed
using the Chrome Driver");
     }
     @Test
     public void boost loadTime() throws InterruptedException {
          System. setProperty("webdriver.chrome.driver",
"C:\\Users\\vmb44\\Desktop\\chromedriver.exe");
          JavascriptExecutor js = (JavascriptExecutor)driver;
```

```
driver.get("https://www.flipkart.com/");
          driver.manage().window().maximize();
          long start time = System.currentTimeMillis();
     js.executeAsyncScript("window.setTimeout(arguments[argume
nts.length -1], 3000);");
          System.out.println("Passed
                                               Time:
+(System.currentTimeMillis() - start time) + " milliSeconds");
          Thread. sleep (2000);
//
          driver.findElement(By.xpath("//input[@class=' 2IX 2-
VJZDxU']")).sendKeys("vmb4401@gmail.com");
          Thread. sleep (2000);
          driver.findElement(By.xpath("//input[@class=' 2IX 2-
3mctLh VJZDxU']")).sendKeys("Vishu@0000");
          Thread. sleep (2000);
     driver.findElement(By.xpath("//button[@class=' 2KpZ61
2HKlqd 3AWRsL']")).click();
          Thread. sleep (4000);
          System.out.println("Login Successful");
          driver.quit();
          driver.quit();
     }
     @Test
     public void choose scroll() throws InterruptedException {
//
          driver = new ChromeDriver();
          driver.navigate().to("https://www.flipkart.com/");
          driver.manage().window().maximize();
          Thread. sleep (2000);
     driver.findElement(By.xpath("//button[@class=' 2KpZ61
2doB4z']")).click();
          Thread. sleep (2000);
     driver.findElement(By.xpath("//input[@class=' 3704LK']"))
.sendKeys("iphone 13");
          Thread. sleep (2000);
     driver.findElement(By.xpath("//button[@class='L0Z3Pu']"))
.click();
          Thread. sleep (4000);
          System.out.println("Displaying iPhone 13 under mobile
category");
          Thread. sleep (2000);
```

```
JavascriptExecutor js = (JavascriptExecutor)driver;
          js.executeScript("scrollBy(0, 2000)");
          Thread. sleep (1500);
          js.executeScript("scrollBy(0, 2000)");
          Thread. sleep (2000);
          js.executeScript("scrollBy(0, 2000)");
          Thread. sleep (3000);
          js.executeScript("scrollBy(0, 2000)");
          Thread. sleep (3000);
          System.out.println("Reached to the Maximum value of
the screen height");
          js.executeScript("scrollBy(0, -2000)");
          Thread. sleep (2000);
          js.executeScript("scrollBy(0, -2000)");
          Thread. sleep (2000);
          js.executeScript("scrollBy(0, -2000)");
          Thread. sleep (2000);
          System.out.println("The page is scrolled to top of the
page");
          Thread. sleep (2000);
        driver.navigate().refresh();
        System.out.println("Refreshed the page successfully");
          System.out.println("Executed Successfully");
          driver.quit();
          driver.quit();
     }
     @Test
     public void firefox setUp() throws InterruptedException {
          System. setProperty("webdriver.gecko.driver",
"C:\\Users\\vmb44\\Desktop\\qeckodriver.exe");
          driver = new FirefoxDriver();
//
          Thread.sleep(2000);
          System.out.println("Firefox driver started");
          driver.navigate().to("https://www.flipkart.com/");
          driver.manage().window().maximize();
          Thread. sleep (2000);
     driver.findElement(By.xpath("//button[@class=' 2KpZ61
2doB4z']")).click();
          Thread. sleep (2000);
     driver.findElement(By.xpath("//input[@class=' 3704LK']"))
.sendKeys("iphone 13");
```

```
Thread.sleep(2000);
     driver.findElement(By.xpath("//button[@class='L0Z3Pu']"))
.click();
          Thread. sleep (4000);
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category");
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          JavascriptExecutor js = (JavascriptExecutor)driver;
          js.executeScript("scrollBy(0, 2000)");
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          Thread. sleep (2000);
          js.executeScript("scrollBy(0, -2000)");
          Thread. sleep (2000);
          System.out.println("The page is scrolled to top of the
page");
          Thread. sleep (2000);
        driver.navigate().refresh();
        System.out.println("Refreshed the page successfully");
          System.out.println("Executed Successfully");
          driver.quit();
     }
}
testng.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testnq.org/testnq-1.0.dtd">
<suite name="Suite">
  <test thread-count="5" name="Test">
    <classes>
      <class name="automate e com web app.WebApp"/>
    </classes>
```

```
</test> <!-- Test --> </suite> <!-- Suite -->
```

### pom.xml

```
xmlns="http://maven.apache.org/POM/4.0.0"
project
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>automate e com web app
 <artifactId>automate e com web app</artifactId>
 <version>0.0.1-SNAPSHOT</version>
 <dependencies>
   <!--
https://mvnrepository.com/artifact/org.seleniumhq.selenium/sel
enium-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>
```