**Phase End Project: Phase 5**

**Automate an E-Commerce Web Application**

**Source Code**

***Developed By: Rishu Kumar***

AppTest.java

**package** FlipkartAutomate.AutomationEcommerce;

**import** org.testng.AssertJUnit;

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

/\*\*

\* Unit test for simple App.

\*/

**public** **class** AppTest

{

/\*\*

\* Create the test case

\*

\* **@param** testName name of the test case

\*/

**public** AppTest( String testName )

{

}

/\*\*

\* Rigourous Test :-)

\*/

@Test

**public** **void** testApp()

{

AssertJUnit.*assertTrue*( **true** );

}

}

FlipkartTestChrome.java

**package** FlipkartAutomate.AutomationEcommerce;

**import** java.io.File;

**import** java.io.IOException;

**import** org.apache.commons.io.FileUtils;

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

**import** org.openqa.selenium.Dimension;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.NoSuchElementException;

**import** org.openqa.selenium.OutputType;

**import** org.openqa.selenium.TakesScreenshot;

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

**import** org.openqa.selenium.WebElement;

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

**import** org.openqa.selenium.support.ui.Wait;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.BeforeClass;

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

**import** io.github.bonigarcia.wdm.WebDriverManager;

**public** **class** FlipkartTestChrome {

WebDriver driver;

@BeforeClass

**public** **void** beforeClass() {

WebDriverManager.*chromedriver*().setup();

driver = **new** ChromeDriver();

driver.get("https://www.flipkart.com/");

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

}

@AfterClass

**public** **void** afterClass() {

driver.quit();

}

@Test(priority = 1)

**public** **void** closeLogin() **throws** InterruptedException {

**try** {

System.***out***.println("\nChrome Browser Result:\n");

System.***out***.println(driver.getTitle());

driver.findElement(By.*cssSelector*("body > div.\_2Sn47c > div > div > button")).click();

Thread.*sleep*(1000);

} **catch** (NoSuchElementException e) {

e.printStackTrace();

}

*screenshot*(driver, "closeloginedge");

}

@Test(priority = 2)

**public** **void** scroll() **throws** InterruptedException {

Thread.*sleep*(2000);

JavascriptExecutor js = (JavascriptExecutor) driver;

js.executeScript("window.scrollBy(0,document.body.scrollHeight)");

System.***out***.println("\nNavigated to bottom of the page");

Thread.*sleep*(2000);

js.executeScript("window.scrollBy(0,-document.body.scrollHeight)", "");

System.***out***.println("\nScroll Feature available");

Thread.*sleep*(2000);

*screenshot*(driver, "scrollchrome");

}

@Test (priority = 3)

**public** **void** searchIphone13() **throws** InterruptedException {

WebElement searchInput = driver.findElement(By.*name*("q"));

searchInput.sendKeys("iPhone 13");

WebElement searchButton = driver.findElement(By.*cssSelector*("button[type='submit']"));

searchButton.click();

Thread.*sleep*(3000);

}

@Test(priority = 4)

**public** **void** loadImage() **throws** InterruptedException {

String url = "https://www.flipkart.com/apple-iphone-13-blue-256-gb/p/itmd68a015aa1e39?pid=MOBG6VF566ZTUVFR&lid=LSTMOBG6VF566ZTUVFR2RQLVU&marketplace=FLIPKART&q=iPhone+13&store=tyy%2F4io&srno=s\_1\_8&otracker=search&otracker1=search&fm=organic&iid=1c0c7402-fe4f-4f45-9aa8-cc59dffe8503.MOBG6VF566ZTUVFR.SEARCH&ppt=hp&ppn=homepage&ssid=i4t60bsv4g0000001665375424769&qH=c3d519be0191fbf8";

driver.get(url);

Thread.*sleep*(3000);

Wait<WebDriver> wait = **new** WebDriverWait(driver, 10);

wait.until((WebDriver driver) -> {

WebElement img = driver.findElement(By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[9]/div[4]/div[3]/div/div/div/div[1]/img"));

**if** (img.isDisplayed()) {

System.***out***.println("\nImage Loaded");

**return** img;

} **else** {

System.***out***.println("\nFluent Wait Fail!, Element Not Loaded Yet");

**return** **null**;

}

});

*screenshot*(driver, "Loadimageedge");

}

@Test(priority = 5)

**public** **void** scrollFrequency() **throws** InterruptedException {

Thread.*sleep*(2000);

**long** start = System.*currentTimeMillis*();

WebElement element = driver.findElement(By.*cssSelector*(

"#container > div > div.\_2c7YLP.UtUXW0.\_6t1WkM.\_3HqJxg > div.\_1YokD2.\_2GoDe3 > div.\_1YokD2.\_3Mn1Gg.col-8-12 > div.\_1YokD2.\_3Mn1Gg > div:nth-child(7) > div > div:nth-child(3) > div > div > div:nth-child(1)"));

((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView(true);", element);

**long** stop = System.*currentTimeMillis*();

**long** totalTime = stop - start;

System.***out***.println("\nScroll Frequency in millisecs - " + totalTime);

*screenshot*(driver, "scrollFrequencyedge");

}

@Test(priority = 6)

**public** **void** downloadImages() **throws** InterruptedException {

WebElement img = driver.findElement(By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[9]/div[4]/div[3]/div/div/div/div[1]/img"));

Boolean p = (Boolean) ((JavascriptExecutor) driver).executeScript(

"return arguments[0].complete " + "&& typeof arguments[0].naturalWidth != \"undefined\" "

+ "&& arguments[0].naturalWidth > 0",

img);

**if** (p) {

System.***out***.println("\nImage present");

} **else** {

System.***out***.println("\nImage not present");

}

*screenshot*(driver, "downloadImagesedge");

}

@Test(priority = 7)

**public** **void** screenResolution() **throws** InterruptedException {

Thread.*sleep*(1000);

Dimension dimension = **new** Dimension(720, 1080);

driver.manage().window().setSize(dimension);

Thread.*sleep*(3000);

Dimension dimension1 = **new** Dimension(1280, 800);

driver.manage().window().setSize(dimension1);

Thread.*sleep*(3000);

Dimension dimension2 = **new** Dimension(2256, 1504);

driver.manage().window().setSize(dimension2);

JavascriptExecutor js = (JavascriptExecutor) driver;

**int** contentHeight = ((Number) js.executeScript("return window.innerHeight")).intValue();

**int** contentWidth = ((Number) js.executeScript("return window.innerWidth")).intValue();

System.***out***.println("\nHeight: " + contentHeight + " Width: " + contentWidth + "\n");

*screenshot*(driver, "screenshotResolutionedge");

}

**public** **static** **void** screenshot(WebDriver driver, String screenshotName) {

TakesScreenshot ts = (TakesScreenshot) driver;

File scr = ts.getScreenshotAs(OutputType.***FILE***);

**try** {

FileUtils.*copyFile*(scr, **new** File(screenshotName + ".png"));

System.***out***.println("Screenshot taken");

} **catch** (IOException e) {

e.printStackTrace();

}

}

}

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>FlipkartAutomate</groupId>

<artifactId>AutomationEcommerce</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>AutomationEcommerce</name>

<url>http://maven.apache.org</url>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

</properties>

<dependencies>

<dependency>

<groupId>io.github.bonigarcia</groupId>

<artifactId>webdrivermanager</artifactId>

<version>5.6.2</version>

</dependency>

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

<dependency>

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

<artifactId>selenium-java</artifactId>

<version>3.141.59</version>

</dependency>

</dependencies>

</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=*"Clases"*>

<classes>

<class name=*"FlipkartAutomate.AutomationEcommerce.FlipkartTestChrome"*/>

<class name=*"FlipkartAutomate.AutomationEcommerce.AppTest"*/>

</classes>

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

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