Automate An E-Commerce Web Application

SourceCode :-

```
pom.xml:
```

```
<? xml version = " 1.0 " encoding = " UTF-8 " ?>
< project xmlns = " http://maven.apache.org/POM/4.0.0 "</pre>
     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 >E-commerce</ groupId >
      < artifactId >Automation</ artifactId >
      < version >0.0.1-SNAPSHOT</ version >
      < packaging >war/ packaging >
      < name >Automation Maven Webapp</ name >
      <!-- FIXME change it to the project's website -->
      < url >http://www.example.com</ url >
      < properties >
             < project.build.sourceEncoding >UTF-8/ project.build.sourceEncoding >
             < maven.compiler.source >1.7</ maven.compiler.source >
             < maven.compiler.target >1.7</ maven.compiler.target >
      < dependencies >
             < dependency >
                   < groupId >junit</ groupId >
                   < artifactId >junit</ artifactId >
                   < version >4.11</ version >
                   < scope >test</ scope >
             </ dependency >
             < dependency >
  < groupId >javax.servlet/ groupId >
  < artifactId >iavax.servlet-api</ artifactId >
  < version >4.0.1</ version >
```

```
< scope >provided</ scope
> </ dependency >
< dependency >
   < groupId >org.seleniumhq.selenium</ groupId >
   < artifactId >selenium-java</ artifactId >
   < version >4.10.0</ version
> </ dependency >
<!-- https://mvnrepository.com/artifact/org.seleniumhg.selenium/selenium-chrome-driver -->
< dependency >
   < groupId >org.seleniumhq.selenium
   < artifactId >selenium-chrome-driver</ artifactId >
   < version >4.10.0</ version >
</ dependency >
< dependency >
                    < groupId >org.seleniumhq.selenium</ groupId >
                    < artifactId >selenium-firefox-driver</ artifactId >
                    < version >4.10.0</ version >
              </ dependency > <!-- https://mvnrepository.com/artifact/org.testng/testng -->
              < dependency >
                    < groupId >org.testng</ groupId >
                    < artifactId >testng</ artifactId >
                    < version >7.0.0</ version >
                    < scope >test</ scope >
             </ dependency >
             < dependency >
        < groupId >commons-io</ groupId >
        < artifactId >commons-io</ artifactId >
        < version >2.6</ version >
     </ dependency >

dependencies >

       < build >
              < finalName >Automation</ finalName >
              < pluginManagement > <!-- lock down plugins versions to avoid using Maven</pre>
                          defaults (may be moved to parent pom) -->
                    < plugins >
                           < plugin >
                                < artifactId >maven-clean-plugin</ artifactId >
                                < version >3.1.0</ version >
                           < |__
                                                                                              see
http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin bindings for war pa
ckaging -->
```

< plugin >

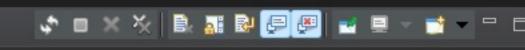
```
< artifactId >maven-resources-plugin</ artifactId >
                             < version >3.0.2</ version >
                         < plugin >
                               < artifactId >maven-compiler-plugin</ artifactId >
                             < version >3.8.0</ version >
                         < plugin >
                               < artifactId >maven-surefire-plugin</ artifactId >
                             < version >2.22.1</ version >
                         < plugin >
                               < artifactId >maven-war-plugin</ artifactId >
                             < version >3.2.2</ version >
                         < plugin >
                               < artifactId >maven-install-plugin</ artifactId >
                             < version >2.5.2</ version >
                         < plugin >
                               < artifactId >maven-deploy-plugin</ artifactId >
                             < version >2.8.2</ version >
                         </ pluginManagement >
      </ build >
AutomationFlipkart:
package ecommerce;
import java.io.File;
import java.io.IOException;
import java.time.Duration; import
java.util.concurrent.TimeUnit;
import org.apache.commons.io.FileUtils; import
org.openqa.selenium.By; import
org.openqa.selenium.JavascriptExecutor; import
org.openqa.selenium.OutputType; import
org.openga.selenium.TakesScreenshot; import
```

```
org.openqa.selenium.WebDriver; import
org.openga.selenium.WebElement; import
org.openga.selenium.chrome.ChromeDriver; import
org.openga.selenium.edge.EdgeDriver; import
org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.annotations.Test;
public class AutomationFlipkart{
       private static String url = "https://www.flipkart.com/";
       @Test (groups = "Chrome")
      public void LaunchChrome() {
//System.setProperty("webdriver.chrome.driver","C:\Users\Prudhvi
\Downloads\chromedriver win32\c hromedriver.exe");
             try {
                    Thread. sleep (2000);
             } catch (Exception e){
                    e .printStackTrace();
             }
       }
       @Test (groups = "Chrome", dependsOnMethods = "LaunchChrome")
       public void f() {
             WebDriver driver = new ChromeDriver();
             driver .manage().window().maximize();
             //driver.get("https://www.flipkart.com/");
             driver .get( url );
             pageLoadtime ( driver , url );
             // close button
             screenshot ( driver , "output-1" );
             driver .findElement(By. xpath ( "/html/body/div[2]/div/div/button" )).click();
             // mobile category
             screenshot ( driver , "output-2" );
driver .findElement(By. xpath ( "//*[@id=\"container\"]/div/div[2]/div/div[2]/a/div[1]/div/img"
)).click();
             checkImageLoaded ( driver );
             ScrollHeight ( driver );
       }
       @Test (groups = "Edge" )
```

```
public void LaunchEdge() {
             try {
                    Thread. sleep (4000);
              } catch (Exception e){
                    e .printStackTrace();
             }
       }
       @Test (groups= "Edge" , dependsOnMethods= "LaunchEdge" )
       public void firefox() {
             WebDriver driver = new EdgeDriver();
             driver .manage().window().maximize();
             //driver.get("https://www.flipkart.com/");
             driver .get( url );
             pageLoadtime ( driver , url );
             // close button
             screenshot (driver, "Output-3");
              driver .findElement(By. xpath ( "/html/body/div[2]/div/div/button" )).click();
             // mobile category
              screenshot (driver, "Output-4");
driver .findElement(By. xpath ( "//*[@id=\"container\"]/div/div[2]/div/div[2]/a/div[1]/div/img"
)).click();
              screenshot (driver, "Output-5");
             checkImageLoaded ( driver );
              ScrollHeight ( driver );
      }
       private static void ScrollHeight(WebDriver driver ) {
             // TODO Auto-generated method stub
             try {
                   long lastHeight = (long) ((JavascriptExecutor) driver ).executeScript( "return")
document.body.scrollHeight");
                while (true){
                                   ((JavascriptExecutor)
                                                                             driver ).executeScript(
"window.scrollTo(0,
document.body.scrollHeight);");
                  Thread. sleep
                  (2000);
                  long newHeight = (long) ((JavascriptExecutor) driver ).executeScript("return")
```

```
document.body.scrollHeight"); if (newHeight
                  == lastHeight ) { break ;
                  lastHeight = newHeight;
             } catch (InterruptedException e )
               { e .printStackTrace();
      }
       private static void checkImageLoaded(WebDriver driver) {
             driver .findElement(By. className ( " 3704LK" )).sendKeys( "iphone 13" );
             driver .findElement(By. className ( "L0Z3Pu" )).submit();
             // iphone13 click
             WebDriverWait wait = new WebDriverWait( driver, Duration . ofSeconds
             (8)); wait .until(ExpectedConditions
. visibilityOfElementLocated (By. xpath (
"//*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[div/div/a/ div[2]/div[1]/div/div/img" )));
driver .findElement(By. xpath (
"//*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[2]/div/div/div/a/div[2]/div
[1]/div/div/img" )).click();
driver .get( "https://www.flipkart.com/apple-iphone-13-midnight-128-
gb/p/itmca361aab1c5b0?pid=MO
BG6VF5Q82T3XRS&lid=LSTMOBG6VF5Q82T3XRSOXJLM9&marketplace=FLIPKART&g=iphone
+13&store=tyy%2F4io&spotlightTagId=BestsellerId tyy%2F4io&srno=s 1 1&otracker=search&otra
cker1=search&fm=Search&iid=a6d4e97e-4f85-4e7e-b6a3-35911f5ebe0f.MOBG6VF5Q82T3XRS.S
EARCH&ppt=sp&ppn=sp&ssid=4kft6zzs6o0000001690806005781&qH=c68a3b83214bb235");
             // identify image
             WebElement
                                                            i
driver .findElement(By. xpath (
"//*[@id=\"container\"]/div/div[3]/div[1]/div[1]/div[1]/div[1]/div[2]/div[1]/ div[2]/img" ));
             // Javascript executor to check image
                                             ((JavascriptExecutor) driver ).executeScript( "return
             Boolean
                            =
                                 (Boolean)
arguments[0].complete "
                              + "&& typeof arguments[0].naturalWidth != \"undefined\" " + "&&
arguments[0].naturalWidth > 0", i);
             // verify if status is true
             if (p){
                    System. out .println( "Image Loaded" );
```

```
screenshot ( driver , "output-6" );
             } else {
                    System. out .println( "Image Not Loaded" );
             }
      }
       private static void pageLoadtime(WebDriver driver, String url) {
             long s = System. currentTimeMillis ();
             // URL launch
             driver .get( url );
             // verify page is loaded
             WebDriverWait wait = new WebDriverWait( driver, Duration . ofSeconds (8));
wait .until(ExpectedConditions. elementToBeClickable (By. xpath ( "/html/body/div[2]/div/div/button"
))); // close button
             // capture time after page load long
             e = System. currentTimeMillis ();
             // compute time
             long r = e - s;
             System. out .println( "Page load time in milliseconds: " + r );
             screenshot ( driver , "output-7" );
       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();
                    }
      }
}
```



<terminated > AutomationFlipkart_testng.xml [TestNG] C:\Program Files\Java\jdk-17\bin\javaw.exe (01-Aug-2023, 11:50:20 am - 11:51:07 am) [pid: 26164]

[RemoteTestNG] detected TestNG version 7.8.0

Aug 01, 2023 11:50:21 AM org.testng.log4testng.Logger info

INFO: [TestNG] Running:

C:\Users\Harish\Downloads\AutomationFlipkart\AutomationFlipkart\testng.xml

Aug 01, 2023 11:50:27 AM org.openqa.selenium.remote.service.DriverService\$Builder getLogOutput

INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output

Aug 01, 2023 11:50:30 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch

WARNING: Unable to find an exact match for CDP version 115, so returning the closest version found: 114

Page load time in milliseconds: 1395

Screenshot taken

Screenshot taken

Screenshot taken

Image Loaded

Screenshot taken

Aug 01, 2023 11:50:44 AM org.openga.selenium.remote.service.DriverService\$Builder getLogOutput

INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output

Aug 01, 2023 11:50:51 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch

WARNING: Unable to find an exact match for CDP version 115, so returning the closest version found: 114

Page load time in milliseconds: 1470

Screenshot taken

Screenshot taken

Screenshot taken

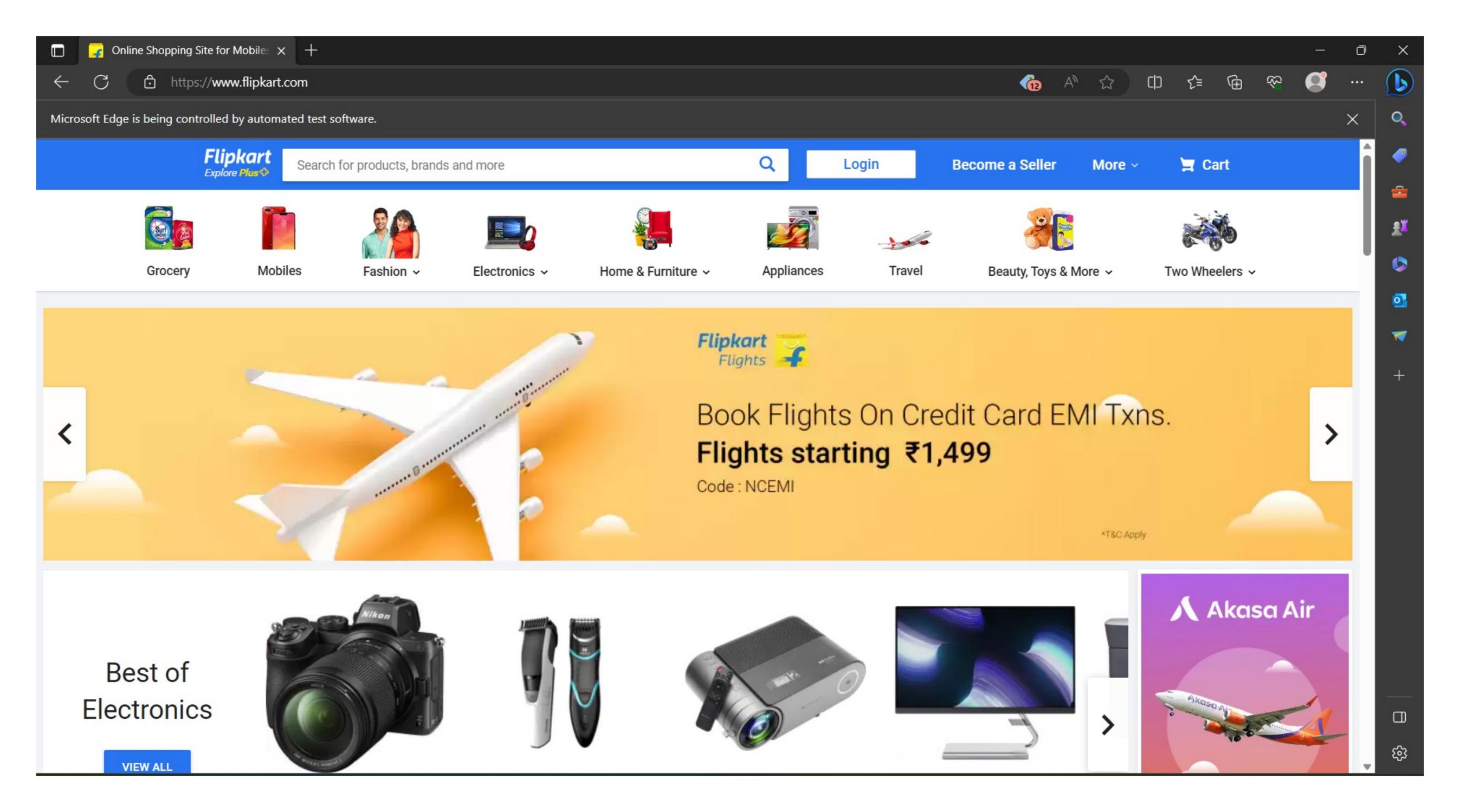
Screenshot taken

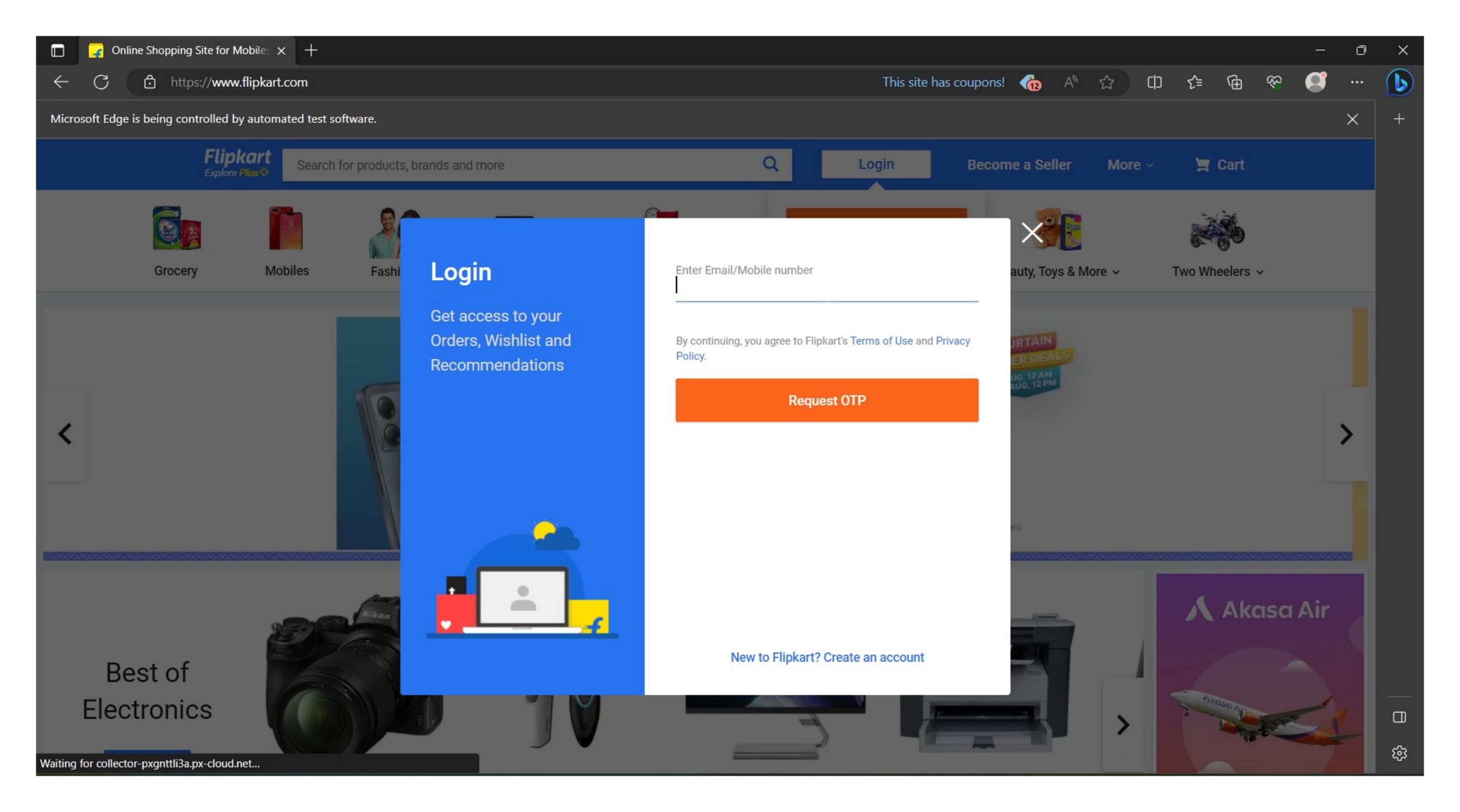
Image Loaded

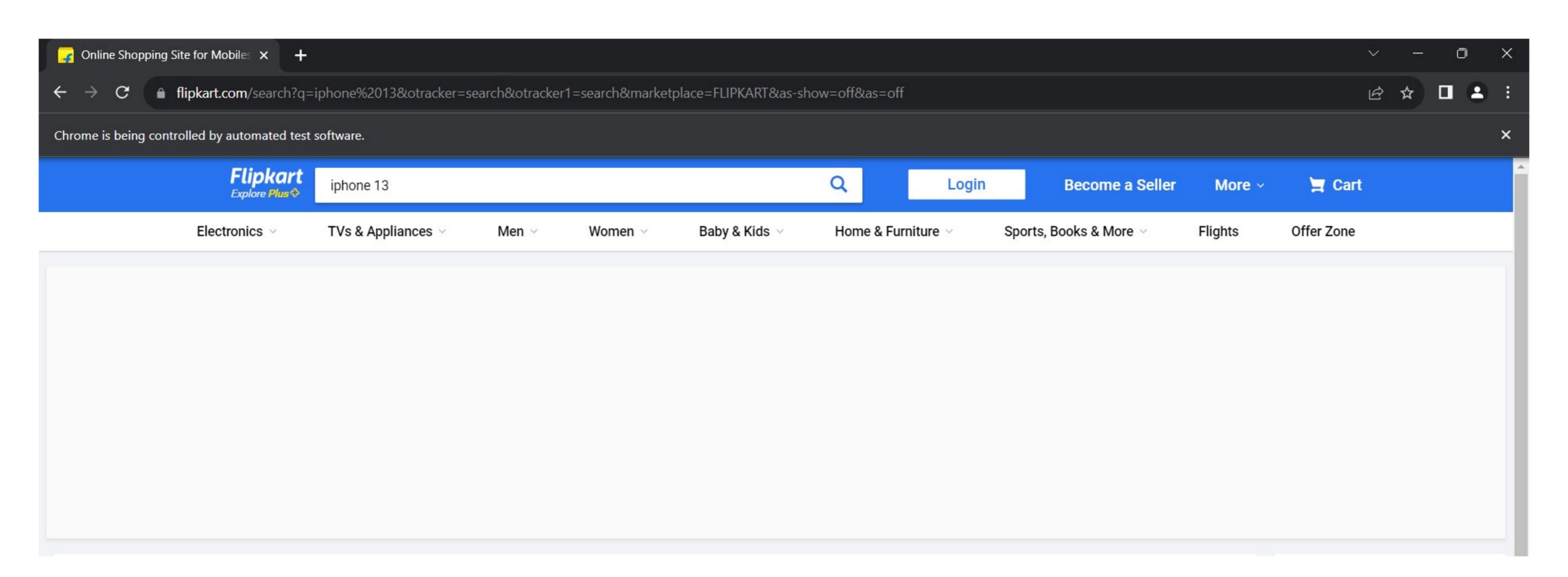
Screenshot taken

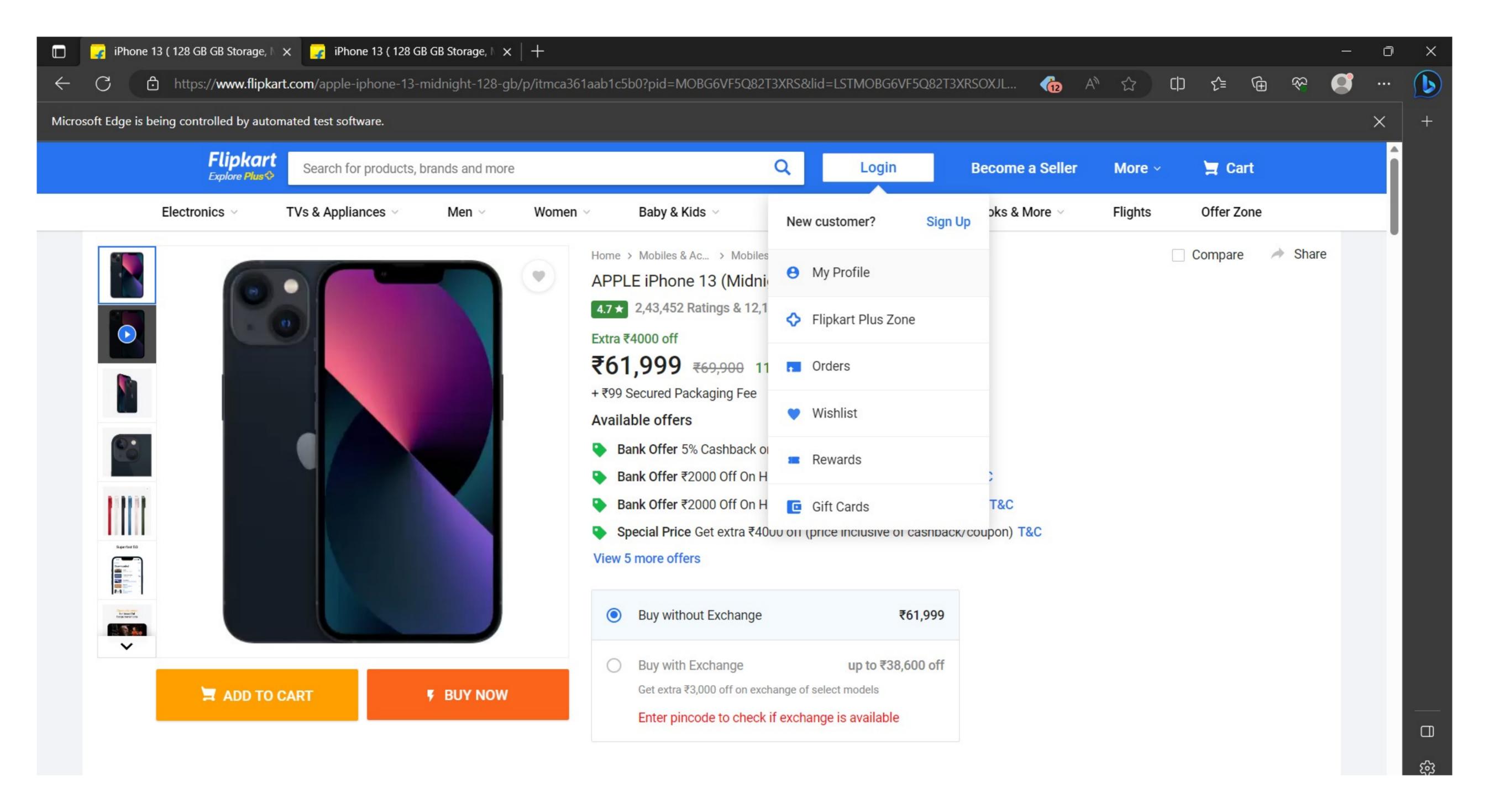
Suite

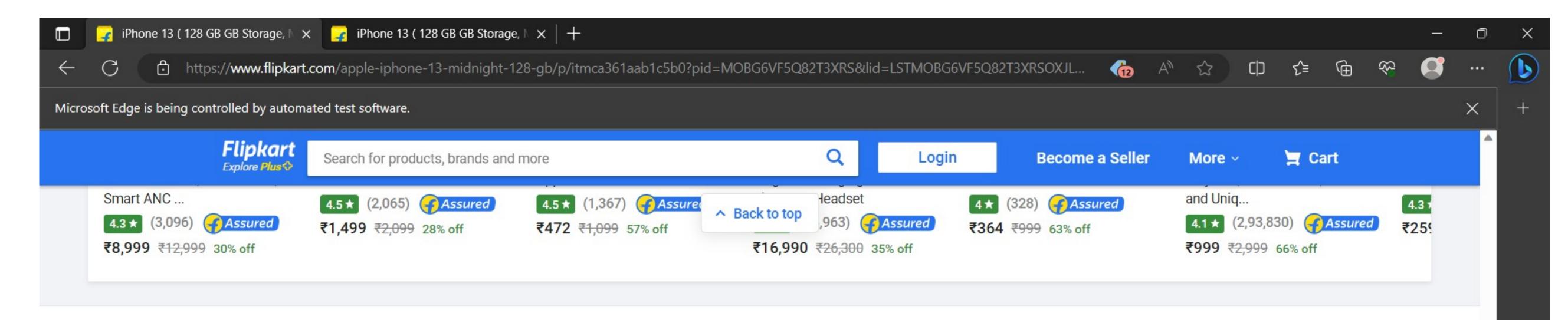
Total tests run: 4, Passes: 4, Failures: 0, Skips: 0











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