

# 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 "
  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 >
  </ properties >

  < dependencies >
    < dependency >
      < groupId >junit</ groupId >
      < artifactId >junit</ artifactId >
      < version >4.11</ version >
      < scope >test</ scope >
    </ dependency >
    < dependency >
      < groupId >javax.servlet</ groupId >
      < artifactId >javax.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.seleniumhq.selenium/selenium-chrome-driver -->
< dependency >
  < groupId >org.seleniumhq.selenium</ groupId >
  < 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
    defaults (may be moved to parent pom) -->
    < plugins >
      < plugin >
        < artifactId >maven-clean-plugin</ artifactId >
        < version >3.1.0</ version >
      </ plugin >
    <!--

```

see  
[http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin\\_bindings\\_for\\_war\\_packaging](http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin_bindings_for_war_packaging) -->

```

    < plugin >

```

```

        < artifactId >maven-resources-plugin</ artifactId >
        < version >3.0.2</ version >
    </ plugin >
    < plugin >
        < artifactId >maven-compiler-plugin</ artifactId >
        < version >3.8.0</ version >
    </ plugin >
    < plugin >
        < artifactId >maven-surefire-plugin</ artifactId >
        < version >2.22.1</ version >
    </ plugin >
    < plugin >
        < artifactId >maven-war-plugin</ artifactId >
        < version >3.2.2</ version >
    </ plugin >
    < plugin >
        < artifactId >maven-install-plugin</ artifactId >
        < version >2.5.2</ version >
    </ plugin >
    < plugin >
        < artifactId >maven-deploy-plugin</ artifactId >
        < version >2.8.2</ version >
    </ plugin >
</ plugins >
</ pluginManagement >
</ build >
</ project >

```

## 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.openqa.selenium.TakesScreenshot; **import**

```

org.openqa.selenium.WebDriver; import
org.openqa.selenium.WebElement; import
org.openqa.selenium.chrome.ChromeDriver; import
org.openqa.selenium.edge.EdgeDriver; import
org.openqa.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/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/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[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&q=iphone
+13&store=tyy%2F4io&spotlightTagId=BestsellerId_tyy%2F4io&sno=s_1_1&otracker=search&otra
cker1=search&fm=Search&iid=a6d4e97e-4f85-4e7e-b6a3-35911f5ebe0f.MOBG6VF5Q82T3XRS.S
EARCH&ppt=sp&ppn=sp&ssid=4kft6zss6o0000001690806005781&qH=c68a3b83214bb235" );
    // identify image
    WebElement i =
driver.findElement(By.xpath (
    "//*[@id=\"container\"]/div/div[3]/div[1]/div[1]/div[1]/div/div[1]/div[2]/div[1]/ div[2]/img" ));
    // Javascript executor to check image
    Boolean p = (Boolean) ((JavascriptExecutor) driver ).executeScript( "return
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();
    }
}

}

```




```
Console ×
<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$Builder getLogOutput
INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output
Aug 01, 2023 11:50:30 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 115, so returning the closest version found: 114
Page load time in milliseconds: 1395
Screenshot taken
Screenshot taken
Screenshot taken
Image Loaded
Screenshot taken
Aug 01, 2023 11:50:44 AM org.openqa.selenium.remote.service.DriverService$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 11:50:51 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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,963) Assured  
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4 ★ (328) Assured  
₹364 ₹999 63% off

and Uniq...  
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₹999 ₹2,999 66% off

4.3 ★

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