Automate an E-Commerce Web Application - flipkart

Here is my git link;
https://github.com/yashwanthNagaraboina/htttt.git

Pom.xml

```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>com.samples</groupId>
        <artifactId>AutomateWebApplication</artifactId>
        <version>0.0.1-SNAPSHOT</version>
        <build>
                <sourceDirectory>src</sourceDirectory>
                <plugins>
                        <plugin>

<artifactId>maven-compiler-plugin</artifactId>
                                <version>3.8.1</version>
                                <configuration>

<release>17</release>
```

```xml
                        </configuration>
                    </plugin>
                    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.0.0-M5</version>
        </plugin>
                </plugins>
        </build>
        <dependencies>

        <dependency>
                <groupId>org.testng</groupId>
                <artifactId>testng</artifactId>
                <version>7.5</version>
        </dependency>
                <dependency>

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

<artifactId>selenium-java</artifactId>
                    <version>4.1.2</version>
                </dependency>
        </dependencies>
</project>
```

----

search.java

package com.flipkart;

```java
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;

public class SearchProduct {

        WebDriver webdriver = null;
        String URL = "http://www.flipkart.com/";

        @Test
        public void searchProduct() {


System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver_win32\\chromedriver.exe");
                webdriver = new ChromeDriver();
                webdriver.get(URL);
                webdriver.manage().window().maximize();

webdriver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);


webdriver.findElement(By.xpath("//button[contains(text()
,'×')]")).click();
```

```java
webdriver.findElement(By.xpath("//img[@alt='Mobiles &
Tablets']")).click();



webdriver.findElement(By.xpath("(//img[@alt='Moto Edge
30'])[2]")).click();

webdriver.findElement(By.xpath("//div[normalize-space()=
'MOTOROLA edge 30 (Aurora Green, 128 GB)']")).click();
        }
}
```


SrollFeature.java


```java
package com.flipkart;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;
```

```java
public class scrollFeature {
        WebDriver webdriver = null;
        String URL = "http://www.flipkart.com/";

        @Test
        public void scrollFeature() {


System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver_win32\\chromedriver.exe");
                webdriver = new ChromeDriver();
                webdriver.get(URL);
                webdriver.manage().window().maximize();

webdriver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);


webdriver.findElement(By.xpath("//button[contains(text()
,'✕')]")).click();




webdriver.findElement(By.xpath("//img[@alt='Mobiles &
Tablets']")).click();




webdriver.findElement(By.xpath("(//img[@alt='Moto Edge
30'])[2]")).click();

webdriver.findElement(By.xpath("//div[@class='_2LR_KO']"
)).click();
```

```java
webdriver.findElement(By.xpath("//input[@placeholder='Search Brand']")).sendKeys("SAMSUNG");

webdriver.findElement(By.xpath("//div[@title='SAMSUNG']//div[@class='_24_Dny']")).click();

//         To Verify page has a scroll feature

            WebElement Element = webdriver.findElement(By.xpath(

"//div[normalize-space()='SAMSUNG Galaxy F22 (Denim Black, 64 GB)']"));
            JavascriptExecutor js = (JavascriptExecutor) webdriver;

js.executeScript("arguments[0].scrollIntoView();", Element);
            System.out.println("Scroll Feature Verified Successfully and working fine");
        }
}


-----------------------------------------------------------------

checkFrequency.java


package com.flipkart;

import java.util.concurrent.TimeUnit;
```

```java
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;

public class checkFrequency {
        WebDriver webdriver = null;
        String URL = "http://www.flipkart.com/";

        @Test
        public void checkFrequency() {


System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver_win32\\chromedriver.exe");
                webdriver = new ChromeDriver();
                webdriver.get(URL);
                webdriver.manage().window().maximize();

webdriver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);


webdriver.findElement(By.xpath("//button[contains(text()
,'✕')]")).click();

webdriver.findElement(By.xpath("//img[@alt='Mobiles &
Tablets']")).click();
```

```java
webdriver.findElement(By.xpath("(//img[@alt='Moto Edge 30'])[2]")).click();

webdriver.findElement(By.xpath("//div[@class='_2LR_KO']")).click();

webdriver.findElement(By.xpath("//input[@placeholder='Search Brand']")).sendKeys("SAMSUNG");

webdriver.findElement(By.xpath("//div[@title='SAMSUNG']//div[@class='_24_Dny']")).click();

//                              Check the frequency at which the content will be refreshed while scrolling
                webdriver.navigate().refresh();
                JavascriptExecutor js = (JavascriptExecutor) webdriver;

js.executeScript("window.scrollBy(0,5428)", "");
                System.out.println("Contents refreshed successfully");
        }

}
```

----

imageLoad.java

```java
package com.flipkart;
```

```java
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;

public class ImageLoaded {
        WebDriver webdriver = null;
        String URL = "http://www.flipkart.com/";

        @Test
        public void imageLoaded() {


System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver_win32\\chromedriver.exe");
                webdriver = new ChromeDriver();
                webdriver.get(URL);
                webdriver.manage().window().maximize();

webdriver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);


webdriver.findElement(By.xpath("//button[contains(text()
,'×')]")).click();

webdriver.findElement(By.xpath("//img[@alt='Mobiles &
Tables']")).click();
```

```
webdriver.findElement(By.xpath("(//img[@alt='Moto Edge
30'])[2]")).click();

webdriver.findElement(By.xpath("//div[@class='_2LR_KO']"
)).click();

webdriver.findElement(By.xpath("//input[@placeholder='Se
arch Brand']")).sendKeys("SAMSUNG");

webdriver.findElement(By.xpath("//div[@title='SAMSUNG']/
/div[@class='_24_Dny']")).click();
                boolean eleSelected = webdriver

.findElement(By.xpath("//div[normalize-space()='SAMSUNG
Galaxy F13 (Waterfall Blue, 64 GB)']"))
                                .isDisplayed();

                // verify if status is true
                if (eleSelected) {
                        System.out.println("Image Loaded
");
                } else {
                        System.out.println("Image not
Loaded");
                }
        }

}


------------------------------------------------------
---------------
```

imageDownloadedBefore.java


```java
package com.flipkart;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.edge.EdgeDriver;
import org.testng.annotations.Test;

public class imageDownloadedBeforeScroll {

        WebDriver webdriver = null;
        String URL = "http://www.flipkart.com/";

        @Test
        public void imageDownloadedBeforeScroll() {


System.setProperty("webdriver.chrome.driver",
"C:\\chromedriver_win32\\chromedriver.exe");
                webdriver = new ChromeDriver();
                webdriver.get(URL);
                webdriver.manage().window().maximize();

webdriver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);
```

```java
webdriver.findElement(By.xpath("//button[contains(text()
,'×')]")).click();


webdriver.findElement(By.xpath("//img[@alt='Mobiles &
Tablets']")).click();



webdriver.findElement(By.xpath("(//img[@alt='Moto Edge
30'])[2]")).click();

webdriver.findElement(By.xpath("//div[@class='_2LR_KO']"
)).click();

webdriver.findElement(By.xpath("//input[@placeholder='Se
arch Brand']")).sendKeys("SAMSUNG");

webdriver.findElement(By.xpath("//div[@title='SAMSUNG']/
/div[@class='_24_Dny']")).click();
//      TO VERIFY image is downloaded just before the
user scrolls to its position and gets displayed in time

            boolean image2 = webdriver

.findElement(By.xpath("//div[normalize-space()='SAMSUNG
Galaxy F13 (Sunrise Copper, 64 GB)']"))
                            .isDisplayed();

            // verify if status is true
            if (image2) {
                    System.out.println("Image2
Loaded ");
            } else {
```

```java
                        System.out.println("Image2 not
Loaded");
                }

                boolean image3 = webdriver

.findElement(By.xpath("//div[normalize-space()='SAMSUNG
Galaxy F13 (Nightsky Green, 64 GB)']"))
                                .isDisplayed();

                // verify if status is true
                if (image3) {
                        System.out.println("Image3
Loaded ");
                } else {
                        System.out.println("Image3 not
Loaded");
                }

                WebElement Element =
webdriver.findElement(By.xpath(

"//div[normalize-space()='SAMSUNG Galaxy A23 (Black, 128
GB)']"));
                JavascriptExecutor js =
(JavascriptExecutor) webdriver;
                // Scrolling down the page till the
element is found

js.executeScript("arguments[0].scrollIntoView();",
Element);
                System.out.println("Scrolled Down
Successfully");
        }
```

```
}
```