

Flipkart.java

```
package com;

import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.AssertJUnit;
import org.openqa.selenium.JavascriptExecutor;
import org.testng.annotations.BeforeTest;
import java.awt.Toolkit;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.Reporter;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.AfterTest;

public class flipkart {

    private WebDriver driver;
    private WebDriver fDriver;

    @BeforeMethod
    @BeforeTest
    public void setUp() {
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }

    @Test(priority = 1)
    public void Navigation() throws InterruptedException {

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

        driver.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();

        String url = driver.getCurrentUrl();
        AssertJUnit.assertEquals("https://www.flipkart.com/", url);
        System.out.println("Navigation success");
    }

    @Test(priority = 2)
    public void LoadingPage() throws InterruptedException {

        long start = System.currentTimeMillis();

        long finish = System.currentTimeMillis();
        long Loadtime = finish - start;
        System.out.println("Page Load Time = " + Loadtime +
"milliseconds");
        long expectedtime = 30000;
        if (Loadtime < expectedtime) {
            System.out.println("Loading Page success");
        } else {

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        System.out.println("Page load exceeded time");
    }

}

@Test(priority = 3)
public void Search() throws InterruptedException {

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

    driver.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();

    driver.findElement(By.name("q")).click();
    Thread.sleep(2000);
    driver.findElement(By.name("q")).sendKeys("iPhone 13",
Keys.ENTER);
    Thread.sleep(2000);
    System.out.println("search product success");

}

@Test(priority = 4)
public void LoadingImage() throws InterruptedException {

    driver.get("https://www.flipkart.com/search?q=realme&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=off");
    WebElement we1 = driver.findElement(By.xpath(
        "//*[@id=\"container\"] /div/div[3]/div[1]/div[2]/div[4]/div/div/div/a /div[1]/div[1]/div/div/img"));
    if (we1.isDisplayed()) {
        System.out.println("image not present");
    }
    JavascriptExecutor js = (JavascriptExecutor) driver;
    js.executeScript("window.scrollTo(0,500)");
    if (we1.isDisplayed()) {
        System.out.println("image present");
    }

}

@Test(priority = 5)
public void Browser() throws InterruptedException {
    fDriver = new FirefoxDriver();

    fDriver.manage().window().maximize();
    fDriver.get("https://www.flipkart.com/");
    System.out.println("Browser change success");
    Thread.sleep(2000);
    fDriver.close();

}

@Test(priority = 6)
public void ScrollPage() throws InterruptedException {

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

    driver.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();
}

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        System.out.print("page scroll success");
    }

    @Test(priority = 7)
    public void Refresh() throws InterruptedException {

        driver.get("https://www.flipkart.com/search?q=iphone+13&sid=tyy%2C4io
&as=on&as-
show=on&otracker=AS_QueryStore_OrganicAutoSuggest_1_3_na_na_na&otracker1=AS
_QueryStore_OrganicAutoSuggest_1_3_na_na_na&as-pos=1&as-
type=RECENT&suggestionId=iphone+13%7CMobiles&requestId=ee111f6f-1edd-495d-
9c8a-eec51bb9a9d5&as-searchtext=iph");
        long startTime = System.currentTimeMillis();
        driver.manage().timeouts().implicitlyWait(10,
TimeUnit.SECONDS);

        JavascriptExecutor js = (JavascriptExecutor) driver;

        // specify the WebElement till which the page has to be
scrolled
        WebElement element =
driver.findElement(By.xpath("//div[@class='CXW8mj']"));

        js.executeScript("arguments[0].scrollIntoView();", element);

        long endTime = System.currentTimeMillis();
        long totalTime = endTime - startTime;
        System.out.println("content refresh success " + totalTime + "
milliseconds");
    }

    @Test(priority = 8)
    public void Bottom() throws InterruptedException {
        driver.get("https://www.flipkart.com/");
        Thread.sleep(2000);
        JavascriptExecutor js = (JavascriptExecutor) driver;

        js.executeScript("window.scrollTo(0,document.body.scrollHeight)");
        System.out.println("bottom navigation success");
    }

    @Test(priority = 9)
    public void Resolution() throws InterruptedException {
        driver.get("https://www.flipkart.com/");

        driver.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();

        Thread.sleep(2000);
        JavascriptExecutor js = (JavascriptExecutor) driver;
        js.executeScript("window.scrollTo(0,1000)", "");
        driver.manage().window().setSize(new Dimension(1620, 820));
        Thread.sleep(3000);
        WebElement textField = driver.findElement(By.name("q"));
        textField.sendKeys("Iphone 13");

        driver.findElement(By.xpath("//button[@class='L0Z3Pu']")).click();
        js.executeScript("window.scrollTo(0,1000)", "");
    }

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        driver.navigate().back();
        Thread.sleep(3000);
        driver.manage().window().maximize();
        Thread.sleep(3000);
        js.executeScript("window.scrollTo(0,1000)", "");
        driver.manage().window().setSize(new Dimension(240, 360));
        textField.sendKeys("mini");
        Thread.sleep(3000);
        js.executeScript("window.scrollTo(0,1000)", "");
        System.out.println("Resolution success");
    }
    @Test(priority = 5)
    public void ScreenHeight() throws InterruptedException {

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

        driver.findElement(By.xpath("/html/body/div[2]/div/div/button")).click();

        java.awt.Dimension screen_size =
Toolkit.getDefaultToolkit().getScreenSize();
        int height = (int) screen_size.getHeight();
        int width = (int) screen_size.getWidth();
        System.out.println("screen resolution");
        System.out.println("Height : " + height + "\nWidth : " +
width);

        int img_height = driver.findElement(By.xpath(

            "//*[@id=\"container\"] /div/div[3]/div[3]/div[1]/div/div[2]/div/div/div[1]/div/div[1]/div/a/div[1]/div/img"))
            .getSize().getHeight();
        int img_width = driver.findElement(By.xpath(

            "//*[@id=\"container\"] /div/div[3]/div[3]/div[1]/div/div[2]/div/div/div[1]/div/div[1]/div/a/div[1]/div/img"))
            .getSize().getWidth();
        System.out.println("image resolution");
        System.out.println("Height " + img_height + "\nWidth " +
img_width);
        WebElement img = driver.findElement(By.xpath(

            "//*[@id=\"container\"] /div/div[3]/div[3]/div[1]/div/div[2]/div/div/div[1]/div/div[1]/div/a/div[1]/div/img"));
        if (img.isDisplayed()) {
            if (img_height < height && img_width < width) {
                System.out.println("The images are loaded and
visible till the screen height only");
            } else {
                System.out.println("The images are not loaded and
visible till the screen height");
            }
        }
    }

    @AfterTest
    @AfterMethod
    public void quitbrowser() throws InterruptedException {
        Thread.sleep(15000);
        driver.quit();
    }

```

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}  
}
```

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>new</groupId>  
  <artifactId>new</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
  <dependencies>  
    <dependency>  
      <groupId>junit</groupId>  
      <artifactId>junit</artifactId>  
      <version>3.8.1</version>  
      <scope>test</scope>  
    </dependency>  
  
    <!-- https://mvnrepository.com/artifact/org.testng/testng -->  
    <dependency>  
      <groupId>org.testng</groupId>  
      <artifactId>testng</artifactId>  
      <version>7.5</version>  
      <scope>test</scope>  
    </dependency>  
  </dependencies>  
  
  <dependency>  
    <groupId>org.seleniumhq.selenium</groupId>  
    <artifactId>selenium-java</artifactId>  
    <version>4.10.0</version>  
  </dependency>  
  
  <!-- https://mvnrepository.com/artifact/org.uncommons/reportng  
-->  
  <dependency>  
    <groupId>org.uncommons</groupId>  
    <artifactId>reportng</artifactId>  
    <version>1.1.4</version>  
    <scope>test</scope>  
  </dependency>  
  
  <!-- https://mvnrepository.com/artifact/velocity/velocity-dep -  
-->  
  <dependency>  
    <groupId>velocity</groupId>  
    <artifactId>velocity-dep</artifactId>  
    <version>1.4</version>  
  </dependency>  
  
  <!-- https://mvnrepository.com/artifact/com.google.inject/guice  
-->  
  <dependency>  
    <groupId>com.google.inject</groupId>  
    <artifactId>guice</artifactId>
```

```
        <version>3.0</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="Test">
        <classes>
            <class name="com.flipkart"/>

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