CODE

POM

```
<version>0.0.1-SNAPSHOT
```

Testing

App

```
package Automate Flipkart;
import io.github.bonigarcia.wdm.WebDriverManager;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
mport org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
Import java.util.List;
import java.util.concurrent.TimeUnit;
   static WebDriver wd;
       WebDriverManager.chromedriver().setup();
       ChromeOptions options = new ChromeOptions();
       options.setBinary("C:\\Program Files\\BraveSoftware\\Brave-
       wd = new ChromeDriver(options);
       wd.manage().window().maximize();
       wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
       measurePageLoadTime();
       checkImageVisibility();
```

```
checkPageScroll();
        checkContentRefreshFrequency();
        verifyImageDownload();
       navigateToBottom();
           wd.quit();
        long loadTime = (long) ((JavascriptExecutor) wd)
                .executeScript("return performance.timing.loadEventEnd -
        System.out.println("Page Load Time: " + loadTime + " milliseconds");
        WebElement searchBox = wd.findElement(By.name("q"));
        searchBox.sendKeys(productName , Keys.ENTER);
        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
        List<WebElement> images = wd.findElements(By.cssSelector(".product-
image img"));
        for (WebElement image : images) {
            if (isElementInViewPort(image)) {
               System.out.println("Image is visible till the screen
               System.out.println("Image is not visible till the screen
height.");
    private boolean isElementInViewPort(WebElement element) {
        return (boolean) ((JavascriptExecutor) wd).executeScript("var rect =
window.innerHeight);", element);
        ((JavascriptExecutor) wd).executeScript("window.scrollTo(0,
document.body.scrollHeight)");
        System.out.println("Page has been scrolled down.");
```

```
((JavascriptExecutor) wd).executeScript("window.scrollTo(0,
                Thread.sleep(500);
                e.printStackTrace();
            currentTime = System.currentTimeMillis();
        } while (currentTime - startTime < 5000);</pre>
        System.out.println("Content refresh frequency checked.");
        WebElement lastImage = wd.findElement(By.className(" 396cs4"));
        long startTime = System.currentTimeMillis();
                Thread.sleep(500);
                e.printStackTrace();
            currentTime = System.currentTimeMillis();
        } while (!isElementInViewPort(lastImage) && (currentTime - startTime
< 5000));
       System.out.println("Image download verified.");
        ((JavascriptExecutor) wd).executeScript("window.scrollTo(0,
        System.out.println("Scrolled to the bottom of the page.");
```