**package** com.Phase5;

**import** java.io.File;

**import** java.io.IOException;

**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.firefox.FirefoxDriver;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**import** org.testng.annotations.Test;

**public** **class** NewTest {

**private** **static** String *url* = "https://www.flipkart.com/";

@Test(groups = "Chrome")

**public** **void** LaunchChrome() {

System.*setProperty*("webdriver.chrome.driver",

"C:\\Users\\USER\\Downloads\\chromedriver\_win32 (2)\\chromedriver.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,"loginformDisplaycc");

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

// mobile category

*screenshot*(driver,"urldisplaycc");

driver.findElement(By.*xpath*("//\*[@id=\"container\"]/div/div[2]/div/div/div[3]/a/div[2]")).click();

*checkImageLoaded*(driver);

*ScrollHeight*(driver);

driver.close();

}

@Test(groups = "Firefox")

**public** **void** LaunchFirefox() {

System.*setProperty*("webdriver.gecko.driver", "C:\\Users\\USER\\Downloads\\geckodriver-v0.31.0-win64\\geckodriver.exe");

**try** {

Thread.*sleep*(4000);

} **catch** (Exception e) {

e.printStackTrace();

}

}

@Test(groups="Firefox", dependsOnMethods="LaunchFirefox")

**public** **void** firefox() {

WebDriver driver = **new** FirefoxDriver();

driver.manage().window().maximize();

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

driver.get(*url*);

*pageLoadtime*(driver, *url*);

// close button

*screenshot*(driver,"loginformDisplayff");

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

// mobile category

*screenshot*(driver,"urldisplayff");

driver.findElement(By.*xpath*("//\*[@id=\"container\"]/div/div[2]/div/div/div[3]/a/div[2]")).click();

*checkImageLoaded*(driver);

*ScrollHeight*(driver);

driver.close();

}

**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) {

// iphone13 click

WebDriverWait wait = **new** WebDriverWait(driver, 6);

wait.until(ExpectedConditions

.*visibilityOfElementLocated*(By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div/div/p[3]/a[7]")));

driver.findElement(By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div/div/p[3]/a[7]")).click();

//driver.get(url);

// 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,"imgLoaded");

} **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 wt = **new** WebDriverWait(driver, 6);

wt.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,"pageLoad");

}

**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();

}

}

}