**Automate e-commere web application:**

**Automation.java;**

package ecommerce;

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.firefox.FirefoxDriver;

import org.testng.annotations.Test;

public class Automation {

WebDriver driver;

@Test(groups = "Chrome")

public void LaunchChrome() {

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

"C:\\\\Users\\\\Hp\\\\Downloads\\\\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/");

// To find the load time and print on console

Long loadtime = (Long) ((JavascriptExecutor) driver)

.executeScript("return performance.timing.loadEventEnd - performance.timing.navigationStart;");

System.out.println("Load time of the website is :- " + loadtime);

// To search the given text in search bar

driver.findElement(By.className("\_3704LK")).sendKeys("iphone 13");

driver.findElement(By.className("L0Z3Pu")).click();

WebElement i = driver.findElement(By.xpath("//img[@class='\_396cs4 \_3exPp9']"));

Boolean p = (Boolean) ((JavascriptExecutor) driver).executeScript("return arguments[0].complete "

+ "&& typeof arguments[0].naturalWidth != \"undefined\" " + "&& arguments[0].naturalWidth > 0", i);

if (p) {

System.out.println("Image is loaded");

} else {

System.out.println("Image not loaded");

}

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();

}

}

@Test(groups = "Firefox")

public void LaunchFirefox() {

System.setProperty("webdriver.gecko.driver",

"C:\\Users\\Hp\\Downloads/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/");

// To find the load time and print on console

Long loadtime = (Long) ((JavascriptExecutor) driver)

.executeScript("return performance.timing.loadEventEnd - performance.timing.navigationStart;");

System.out.println("Load time of the website is :- " + loadtime);

// To search the given text in search bar

driver.findElement(By.className("\_3704LK")).sendKeys("iphone 13");

driver.findElement(By.className("L0Z3Pu")).click();

WebElement i = driver.findElement(By.xpath("//img[@class='\_396cs4 \_3exPp9']"));

Boolean p = (Boolean) ((JavascriptExecutor) driver).executeScript("return arguments[0].complete "

+ "&& typeof arguments[0].naturalWidth != \"undefined\" " + "&& arguments[0].naturalWidth > 0", i);

if (p) {

System.out.println("Image is loaded");

} else {

System.out.println("Image not loaded");

}

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();

}

}

}