

Problem Statement: Automate an E-Commerce Web Application – Insist.

Program:

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\\\\\\\\Pratik Tanaji
Patil\\\\\\\\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");
    }
}

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    } 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\\Pratik Tanaji Patil\\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("LOZ3Pu")).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();  
}  
}  
  
}
```