

Flipkart website automation using selenium and Jenkins

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INTRODUCTION

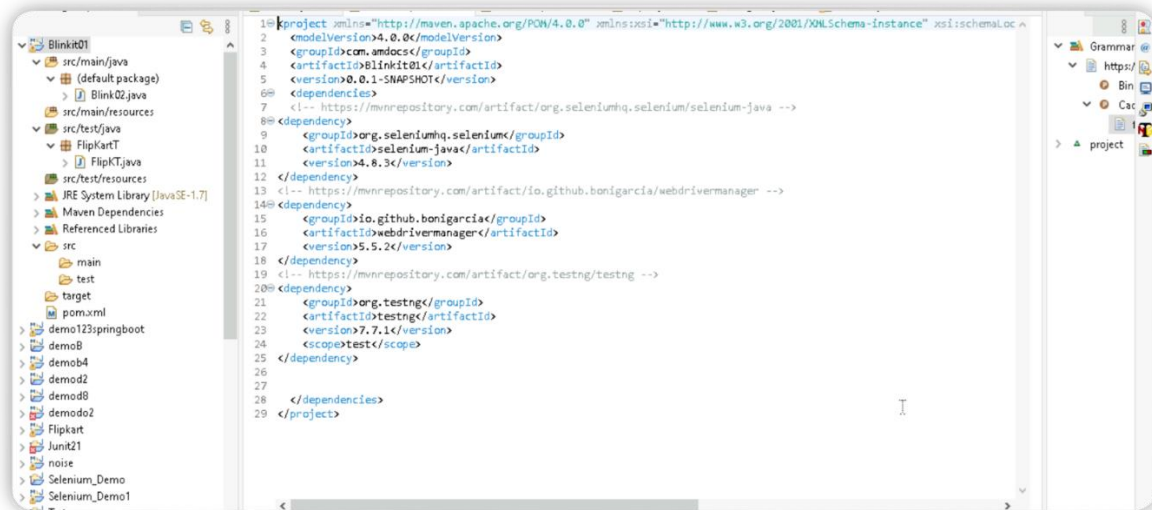
This Presentation is about the automating the website using Selenium Tools and shows the process of automation and we can load the site and perform various functionalities using Testing Framework.

SELENIUM

Selenium is an open source, providing a versatile framework automating web applications. Selenium automates web browsers, aiding in functional testing.

Selenium supports multiple programming languages and offers features like navigation and data extraction . The WebDriver component acts as bridge between automation scripts and web browsers , enabling control over browser actions.

Pom.Xml



In Pom.xml ,Selenium-java and webdrivermanager and testng dependencies are included.

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists the project structure for 'Blink02'. The main editor window displays the code for 'Blink02.java'. The code is as follows:

```

1 import org.openqa.selenium.By;
2
3 public class Blink02 {
4
5     public static void main(String[] args) throws InterruptedException {
6         FirefoxDriver dr=new FirefoxDriver();
7         dr.get("https://www.flipkart.com");
8         dr.manage().window().maximize();
9         dr.findElement(By.cssSelector(".x30X09H")).click();
10        WebElement searchBox=dr.findElement(By.name("q"));
11        searchBox.sendKeys("Smart Watch");
12        searchBox.sendKeys(Keys.ENTER);
13        Thread.sleep(5000);
14        dr.navigate().to("https://www.flipkart.com/noise-colorfit-icon-2-1-8-display-bluetooth-calling-ai-voice-assistant");
15        WebElement addToCart=dr.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div[2]/div[ul]/li[1]/button"));
16        addToCart.click();
17        Thread.sleep(5000);
18        WebElement PlaceOrder=dr.findElement(By.xpath("/html/body/div[1]/div/div[2]/div/div/div[1]/div/div[4]/div/form"));
19        PlaceOrder.click();
20    }
21 }

```

The status bar at the bottom indicates the file is 'Writeable', the editor is in 'Smart Insert' mode, and the time is '25:1:1398'.

In selenium , Junit is commonly used as at testing framework to write and execute test cases.

The org.junit package contains many interfaces and classes for junit test such as assert Test, Before ,After etc...

```

1 package FlipkartT;
2 import org.openqa.selenium.By;
3 import org.openqa.selenium.Keys;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.firefox.FirefoxDriver;
6 import org.testng.annotations.*;
7
8 Run All
9 public class FlipKT {
10
11     private FirefoxDriver dr;
12
13     @BeforeClass
14     public void setUp() {
15         dr = new FirefoxDriver();
16         dr.get("https://www.flipkart.com");
17         dr.manage().window().maximize();
18     }
19 }

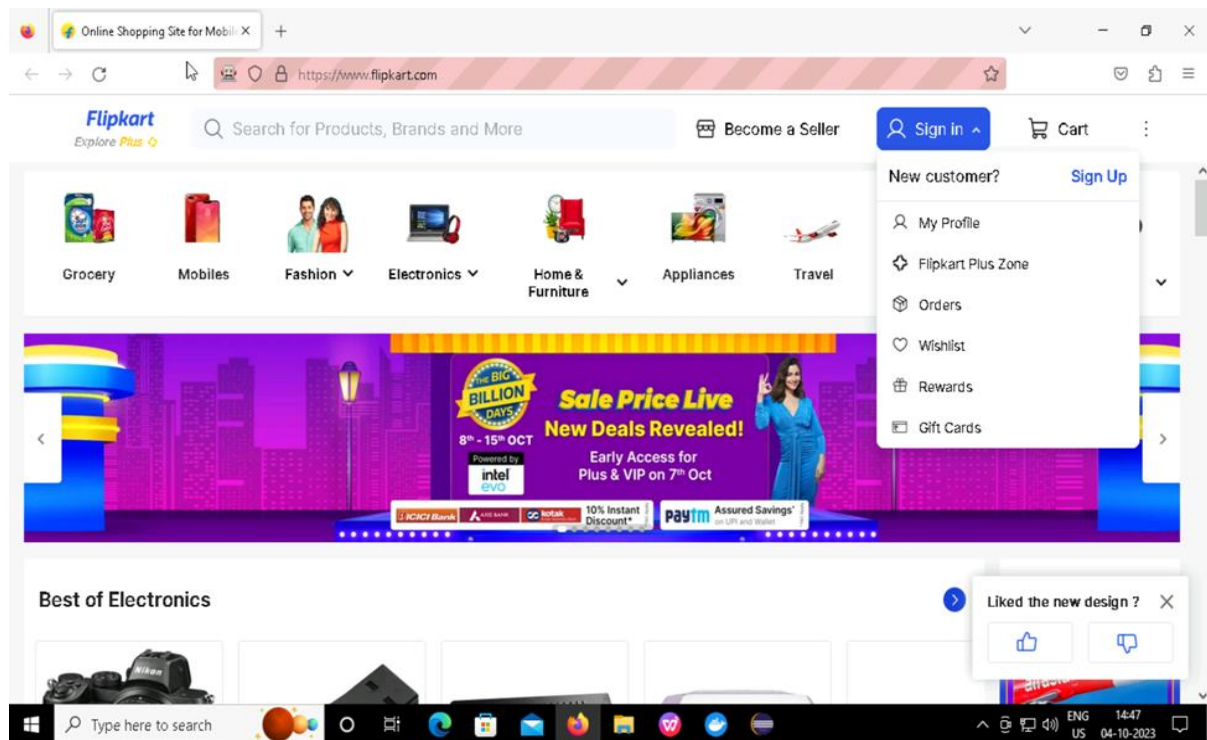
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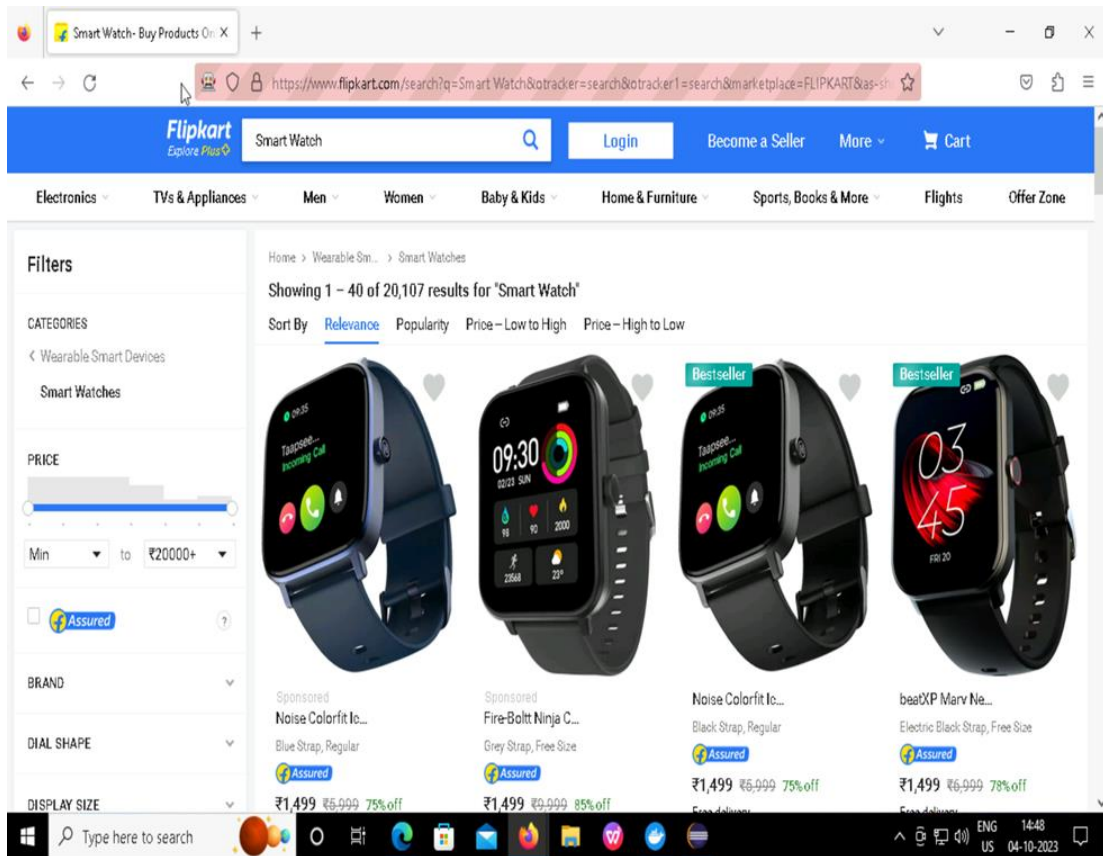
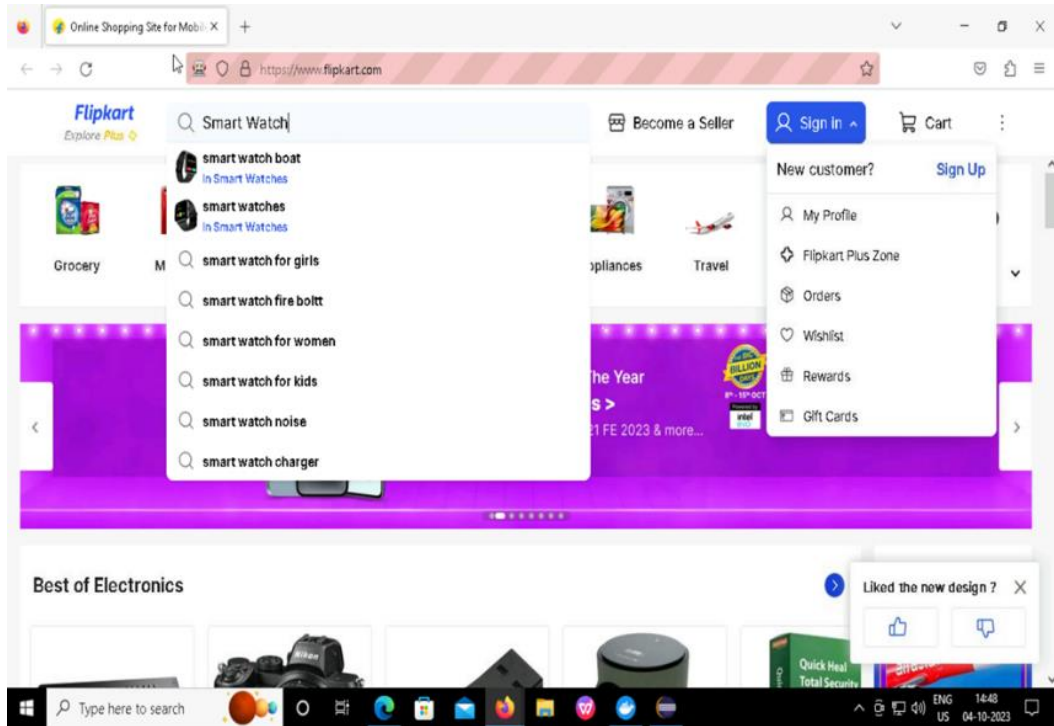
```

10
19 @Test
    Run | Debug
20 public void searchAndAddToCart() throws InterruptedException {
21     dr.findElement(By.cssSelector(".30XB9F")).click();
22     WebElement searchBox = dr.findElement(By.name("q"));
23     searchBox.sendKeys("Smart Watch");
24     searchBox.sendKeys(Keys.ENTER);
25     Thread.sleep(5000);
26     dr.navigate().to("https://www.flipkart.com/noise-colorfit-icon-2-1-8-display-bluetooth-calling-ai-voice-assist
27     WebElement addToCart = dr.findElement(By.xpath("/html/body/div[1]/div/div[3]/div[1]/div[1]/div[2]/div/ul/li[1]
28     addToCart.click();
29     Thread.sleep(5000);
30     WebElement placeOrder = dr.findElement(By.xpath("/html/body/div[1]/div/div[2]/div/div/div[1]/div/div[4]/div/fc
31     placeOrder.click();
32 }
33
34 @AfterClass
35 public void tearDown() {
36     dr.quit();
37 }
38 }
39
40

```

Output





Noise Colorfit Icon 2 1.8" Display with Bluetooth Calling, AI Voice Assistant Smartwatch (Black Strap, Regular)

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- Bank Offer Extra ₹3000 off on ICICI Bank Credit Card and Credit EMI Txns on Net Cart Value of ₹79,990 and above **T&C**
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 Seller: TBL Online **Assured**
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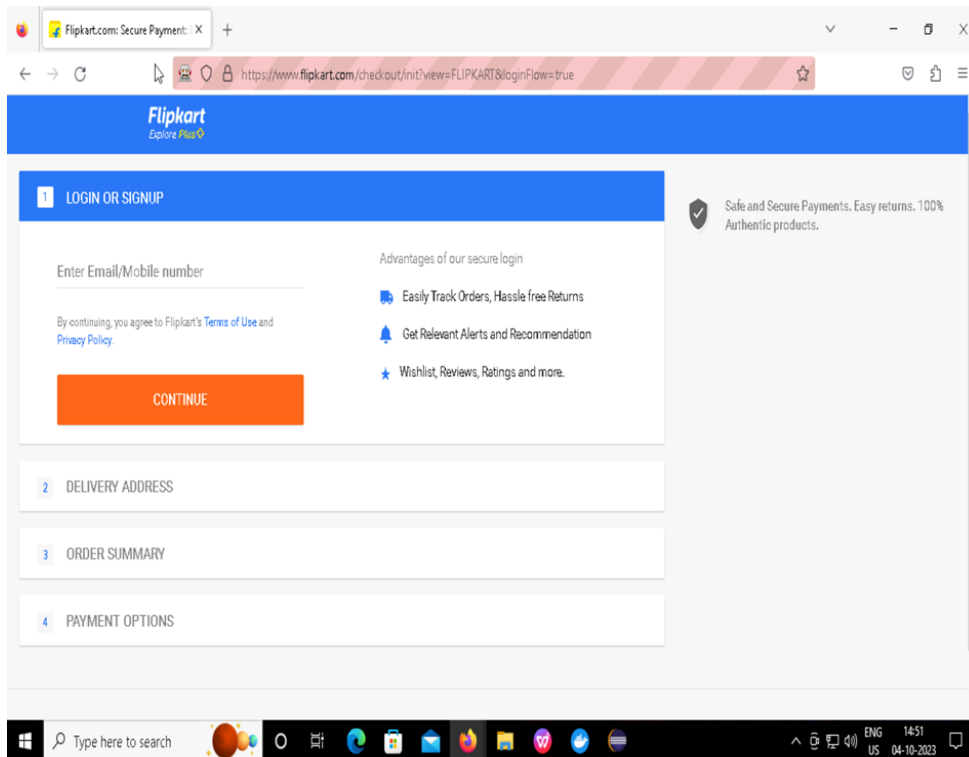
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Jenkins

Jenkins is a popular open-source automation server that can be used for continuous integration and continuous delivery (CI/CD) of software projects ,including Selenium tests.

With Jenkins ,you can automate the build , test, and deployment processes of Selenium tests.

Jenkins Build UI

