AUTOMATION TESTING

BY : RUTUJA JAGNADE

Batch No: 2021-6289

EduBridge India

2021-22

Project Report On : *Automation Testing With Selenium Selenium WebDriver with Java + Frameworks*

By: Rutuja Jagnade
Batch No: 2021-6289

Under The Guidance Of
Priyanka Desle (Technical Trainer)

Introduction

This project aims to do overall testing like functional testing, GUI testing on the website to check the quality of the application.

It helps improve the website's quality and saves time for manually doing this testing. In this project, our main focus is to check functionalities available on the website.

Also, it includes a title check and all links count with their working status.

Description On System

- The proposed system is a website named "Tutorialsninja.com" where users can Shop online via the website.
- The website will consist of a login page where it authenticates the registered user.
- If the user is not a registered user, then the user will be asked to register.
- After the login page, the home page will appear where the user can shop for a device that he wants.

What is Eclipse?

In the context of computing, Eclipse is an integrated development environment (IDE) for developing applications using the Java programming language and other programming languages such as C/C++, Python, PERL, Ruby, etc. The Eclipse platform which provides the foundation for the Eclipse IDE is composed of plug-ins and is designed to be extensible using additional plug-ins. Developed using Java, the Eclipse platform can be used to develop rich client applications, integrated development environments, and other tools. Eclipse can be used as an IDE for any programming language for which a plug-in is available.

Software Requirements

Operating System:- Window 10

Browser:- Latest version of Google Chrome

IDE:- Eclipse IDE

Front-end:- Java

TC01-- Launch the browser and open the Tutorialsninja Website

```java
// Launch browser

System.setProperty("webdriver.chrome.driver","C:\\
Users\\Rutuja
\\Desktop\\Selenium Jar\\chromedriver.exe" );
WebDriver w=new ChromeDriver();


// Open URL
w.get("http://tutorialsninja.com/demo");
```

TC02-- Tutorialninja Website Title And Current Url Check

```java
// Title check
System.out.println(w.getTitle());
// Current Url
System.out.println(w.getCurrentUrl());
```
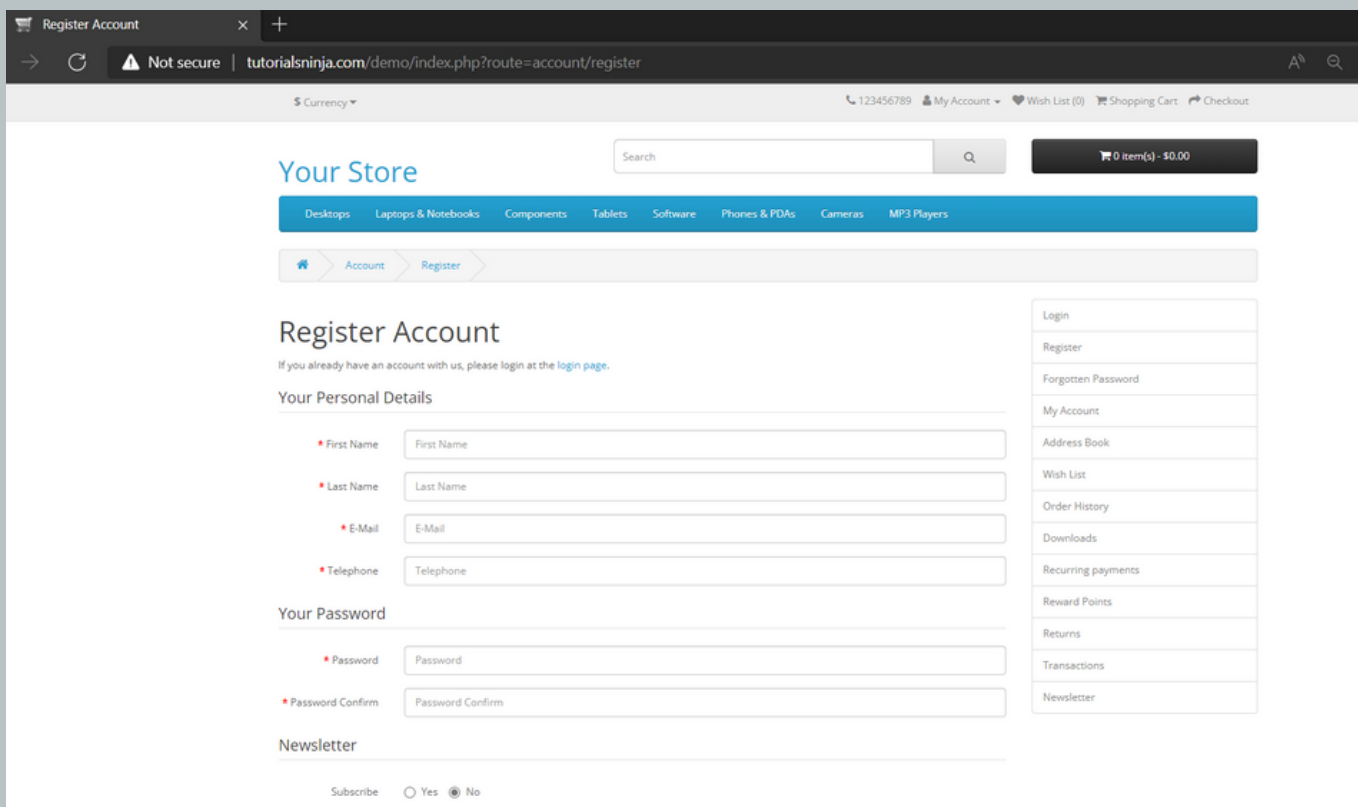
TC03-- Check My Account button on Tutorialsninja Website

//My Account

w.findElement(By.linkText("My Account")).click();

TC04-- To test the functionality of Register Page on Tutorialsninja website

```
// Register
w.findElement(By.linkText("Register")).click();
//Adding Your Personal Details
//firstname
w.findElement(By.id("input-firstname")).sendKeys("Animesh");
//lastname
w.findElement(By.id("input-lastname")).sendKeys("Oze");
//E-mail
w.findElement(By.id("input-email")).sendKeys("oze@gmail.com");
//Telephone
w.findElement(By.id("input-telephone")).sendKeys("9876543219");
//input-password
w.findElement(By.id("input-password")).sendKeys("00036");
//input-confirm
w.findElement(By.id("input-confirm")).sendKeys("00036");
```

TC05-- To Test Subscribe And Checkbox button

```
//Subscribe
w.findElement(By.xpath("//*
[@id=\"content\"]/form/fieldset[3]/div/div/label[1]/input")).click();
//CheckBox
w.findElement(By.xpath("//*
[@id=\"content\"]/form/div/div/input[1]")).click();
```

TC06-- In My account check Logout And Continue Functionality

```java
//My Account
w.findElement(By.linkText("My Account")).click();
w.findElement(By.linkText("Logout")).click();

//Account logout And Continue
w.findElement(By.linkText("Continue")).click();
```

TC07-- To Check Login Functionality With Valid data

```java
// login
w.findElement(By.linkText("Login")).click();

//To Login Enter Valid data
//E-mail
w.findElement(By.id("input-email")).sendKeys("dsa@gmail.com");
//Password
w.findElement(By.id("input-password")).sendKeys("00042");
//click on login
w.findElement(By.xpath("//*[@id=\"content\"]/div/div[2]/div/form/input")).click();
```
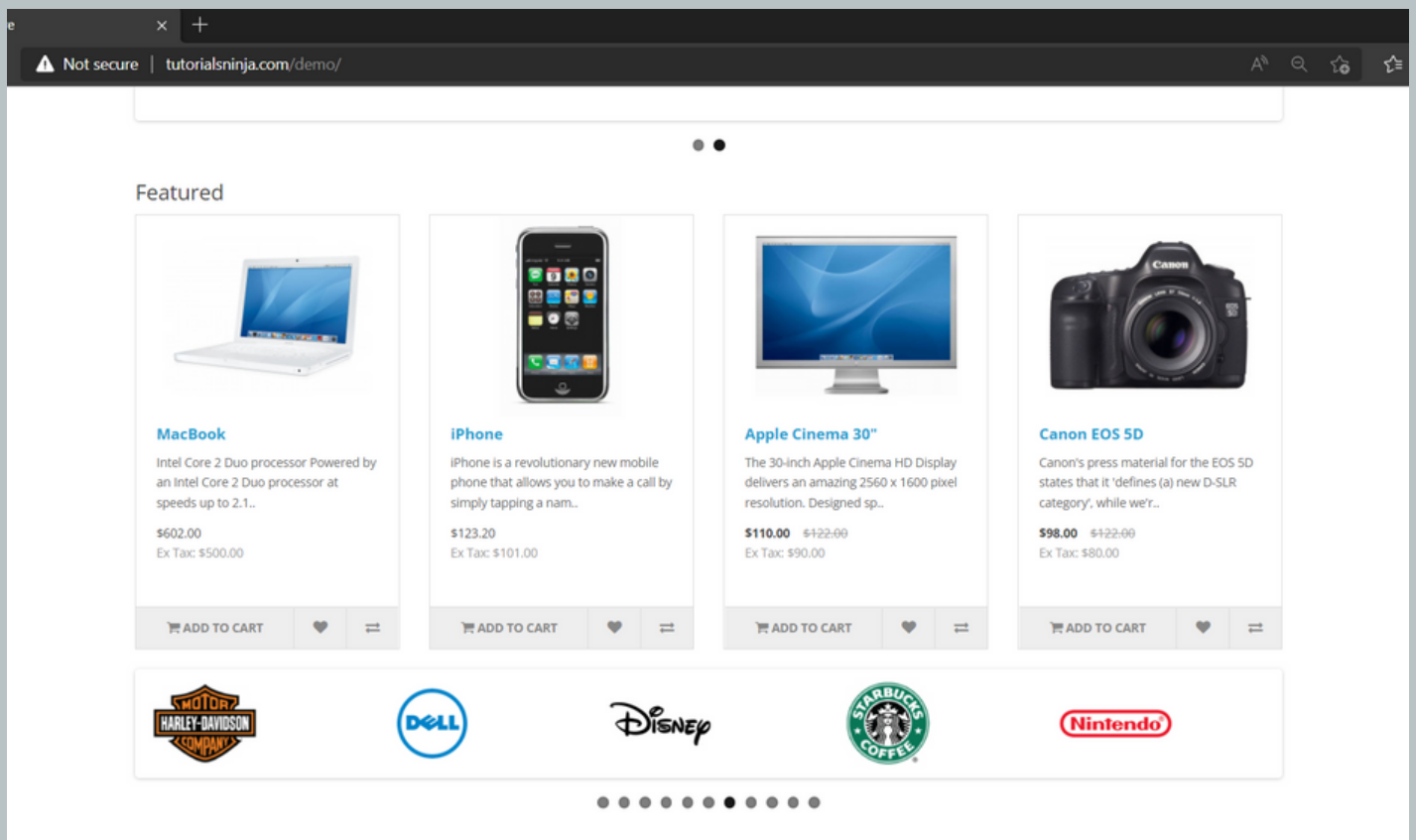
TC08-- To Check Logout Button And Contioun

//logout

w.findElement(By.linkText("Logout")).click();

//Continue

w.findElement(By.linkText("Continue")).click();

TC09-- To test home page And Explorer Featured

TC10-- To Check iPhone Feature & Open Image Close Image

```
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[2]/div/div[1]/a/img")).click();
// To click on Image1=iPhone
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[2]/a/img")).click();
//close Img1
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();


// Iamge2
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[3]/a/img")).click();
// Close img2
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();


// Image3
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[4]/a/img")).click();
//close img3
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();


// Image 4
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[5]/a/img")).click();
//close img4
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();


// Image 5
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[6]/a/img")).click();
//close img5
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();
```

TC11-- To Check MacBook Feature And Specification

//To click on Image4=MacBook
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[1]/div/div[1]/a/img")).click();
//Specification
w.findElement(By.linkText("Specification")).click();

TC12-- To Check Macbook Images And Close Image

//Img1
w.findElement(By.xpath("//*
[@id=\"content\"]/div/div[1]/ul[1]/li[2]/a/img")).click();
//close Img1

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();
//Img2
w.findElement(By.xpath("//*
[@id=\"content\"]/div/div[1]/ul[1]/li[3]/a/img")).click();
//close img2

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();
//Img3
w.findElement(By.xpath("//*
[@id=\"content\"]/div/div[1]/ul[1]/li[4]/a/img")).click();

//Close img3

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();

//Img4

w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[5]/a/img")).click();

//close img4

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();

TC13-- To Check Canon EOS 5D Images And Close

//Click on Canon EOS 5D
w.findElement(By.xpath("//*[@id=\"content\"]/div[2]/div[4]/div/div[1]/a/img")).click();
//img1
w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[2]/a/img")).click();
//close img1
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();
//img2
w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[3]/a/img")).click();
//close img2
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();

TC14--To Check Apple Cinema 30 Images And Close

```
//To click on Image3=Apple Cinema 30
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[3]/div/div[1]/a/img")).click();
//Specification
w.findElement(By.linkText("Specification")).click();
//Img1
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[3]/a/img")).click();
//close img1
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/but
ton")).click();
```

TC15-- To check Desktop Mouseover on home page

```
// TO check Mouseover on home page
// Desktop=Show all Desktop
Actions a=new Actions(w);
a.moveToElement(w.findElement(By.linkText("Desktops")))
.build().perform();
w.findElement(By.xpath("//*[@id=\"menu\"]/div[2]/ul/li[1]/div/a"))
.click();
```

TC16-- To test All Desktop Refine Search Sort by Grid and list

```
w.findElement(By.id("grid-view")).click();
```

TC17-- To Test Sort by Functionality

```
//Sort by High>low
Select SortBy=new Select(w.findElement(By.id("input-sort")));
SortBy.selectByVisibleText("Price (High > Low)");
// show numbers of product
Select Show=new Select(w.findElement(By.id("input-limit")));
Show.selectByVisibleText("50");
```

TC18-- To check Laptops & Notebooks Mouseover on home page

```
a.moveToElement(w.findElement(By.linkText("Laptops &
Notebooks"))).build().perform();
```

TC19-- To check all The Laptops and Notebooks

```
w.findElement(By.linkText("Show All Laptops &
Notebooks")).click();
```

TC20-- To check Components Mouseover on home page

```
//Components
a.moveToElement(w.findElement(By.linkText("Components"))).
build().perform();
```

TC21-- To Test Monitors Button

```
w.findElement(By.linkText("Monitors (2)")).click();
```

TC22-- To check Components=Apple Cinema 30

//Components=Apple Cinema 30"
w.findElement(By.xpath("//*
[@id=\"content\"]/div[3]/div[1]/div/div[1]/a/img")).click();
w.findElement(By.linkText("Specification")).click();
w.navigate().back();

TC23-- To Check //Components=Samsung SyncMaster

//Components=Samsung SyncMaster 941BW
w.findElement(By.xpath("//*
[@id=\"content\"]/div[3]/div[2]/div/div[1]/a/img")).click();

TC24-- To check Table Mouseover on home page

```
//Tables
a.moveToElement(w.findElement(By.linkText("Tablets"))).build().perform();
w.findElement(By.linkText("Tablets")).click();
```

TC25-- To check Software Mouseover on home page

```
//Software
a.moveToElement(w.findElement(By.linkText("Software"))).build().perform();
w.findElement(By.linkText("Software")).click();
```

TC26-- To check /Phones & PDAs Mouseover on home page

```
//Phones & PDAs
a.moveToElement(w.findElement(By.linkText("Phones & PDAs"))).build().perform();
w.findElement(By.linkText("Phones & PDAs")).click();
```

TC27-- To Click on iPhone And Check images

```
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[2]/div/div[1]/a/img")).click();
//img1
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[2]/a/img")).click();
//close img1
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button"))
.click();
//img2
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[3]/a/img")).click();
//close img2
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button"))
.click();
```

```
//img3
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[4]/a/img")).click();
//close img3
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button"))
.click();
//img4
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[5]/a/img")).click();
//close img4
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button"))
.click();
//img5
w.findElement(By.xpath("//*
[@id=\"content\"]/div[1]/div[1]/ul[1]/li[6]/a/img")).click();
//closeimg5
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).c
lick();
```

TC28-- To check Camera Mouseover on home page

```
//Camera
a.moveToElement(w.findElement(By.linkText("Cameras")))
.build().perform();
w.findElement(By.linkText("Cameras")).click();
```

TC29-- To check Camera product Canon EOS 5D And navigate back

```
// Canon EOS 5D
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[1]/div/div[1]/a/img")).click();
w.navigate().back();
```

TC30-- To check camera product Nikon D300

```
// Nikon D300
w.findElement(By.xpath("//*
[@id=\"content\"]/div[2]/div[2]/div/div[1]/a/img")).click();
```

TC31-- To check MP3 Players Mouseover on home page

```
//MP3 Players
a.moveToElement(w.findElement(By.linkText("MP3
Players"))).build().perform();
```

TC32-- To test MP3 Players buttons And Countion

```
// To click on Test 15 button
w.findElement(By.linkText("test 15 (0)")).click();
//Continue
w.findElement(By.linkText("Continue")).click();
```

TC33-- To check All MP3 Players

```
a.moveToElement(w.findElement(By.linkText("MP
3 Players"))).build().perform();
w.findElement(By.linkText("Show All MP3
Players")).click();
```

TC34-- To check MP3 Player product iPod Shuffle

//iPod Shuffle

w.findElement(By.xpath("//*[@id=\"content\"]/div[4]/div[3]/div/div[1]/a/img")).click();

TC35-- To check iPad Shuffle images

//img1

w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[2]/a/img")).click();

//close img1

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();

//img2

w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[3]/a/img")).click();

//close img2

w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();

//img3

w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[4]/a/img")).click();

//close img3
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click();
//img4
w.findElement(By.xpath("//*[@id=\"content\"]/div/div[1]/ul[1]/li[5]/a/img")).click();
//close img4
w.findElement(By.xpath("/html/body/div[2]/div/div[1]/div/button")).click()

TC36-- To test Add to Cart button

// Add-cart
w.findElement(By.id("button-cart")).click();

TC37-- To check Items and view cart

// Go to Cart
w.findElement(By.xpath("//*[@id=\"cart\"]/button")).click();
// view cart
w.findElement(By.xpath("//*[@id=\"cart\"]/ul/li[2]/div/p/a[1]/strong")).click();

TC38-- To Test Estimate shipping & Taxes

```
//Estimate Shipping & Taxes
w.findElement(By.xpath("//*
[@id=\"accordion\"]/div[2]/div[1]/h4/a")).click();
```

TC39-- To Test Country button In Estimate Shipping & Taxes

```
//Country
Select country =new Select(w.findElement(By.id("input-country")));
country.selectByValue("99");
```

TC40-- To Test Region/State button In Estimate Shipping & Taxes

```
//Region / State
Select state =new Select(w.findElement(By.id("input-zone")));
state.selectByValue("1500");
```

TC41-- To Test Post code button

```
//Post Code
w.findElement(By.id("input-postcode")).sendKeys("403801");
```

TC41-- To Test Check Out button

```
//Checkout
w.findElement(By.linkText("Checkout")).click();
```

TC42-- To Test Continue Shopping

```
//Continue Shopping
w.findElement(By.linkText("Continue Shopping")).click();
```

Purpose:

To Test All Functionality Of TutorialNinja Shopping Website.

Test Results

All the test cases mentioned above passed successfully. No defects were encountered.

Thank You !!