Post Graduate Certification in Selenium Web Driver with Java + Frameworks

A Project Report on

Automation testing using TestNG on automation practice website

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Introduction:

This project is based on TestNG, which makes automated tests more structured, readable, maintainable and user-friendly. Also this project targets to do overall testing like functional testing, GUI testing on website to check quality of application.

Using TestNG, we generated a proper report, and we can easily come to know how many test cases are passed, failed, and skipped. Also we can execute the failed test cases separately.

In this project we have tested all functionalities like sign-up, add to cart, checkout, drop down lists, information of user, contacting to website support etc.

System Requirements:

Operating System: Window 10

Browser: Latest version of Google Chrome

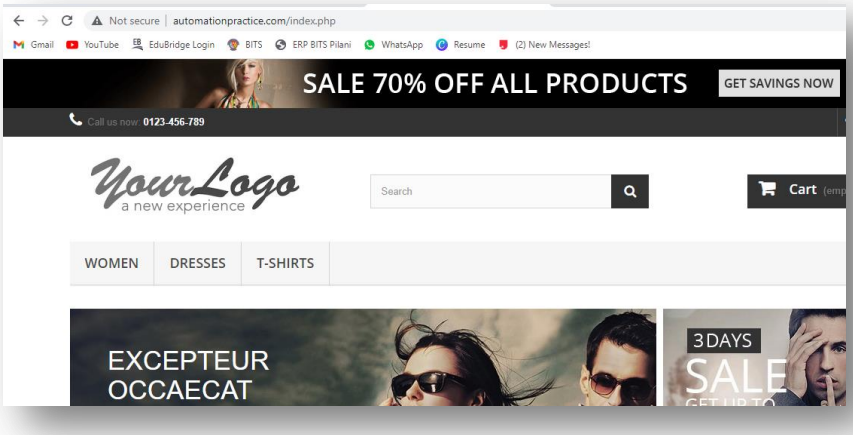
IDE: Eclipse IDE (Version 4.21.0)

Java Version: JRE 8 or later

Framework used: Java and TestNG

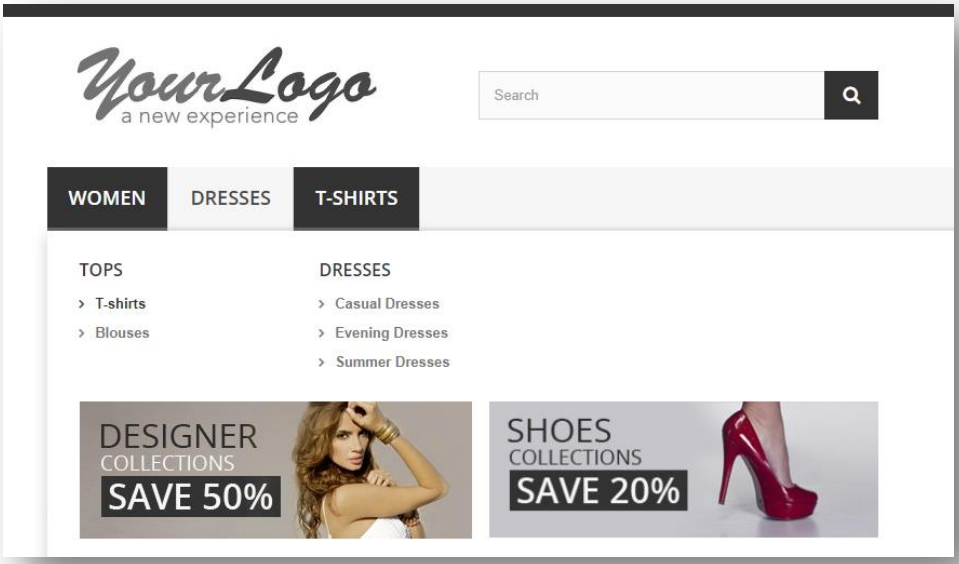
Launch the browser and open New Demo Tour Website:

```
public void beforeMethod() {

System.setProperty("webdriver.chrome.driver","C:\\Users\\dell\\Desktop\\Selenium Jar\\chromedriver_win32_1\\chromedriver.exe");

w=new ChromeDriver();

w.get("http://automationpractice.com/index.php");

}
```



To check the functionality of T-shirt button under women tab:

```
Actions women=new Actions(w);
women.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[1]/a[1]"))).build().perform();

w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[1]/ul[1]/li[1]/ul[1]/li[1]/a[1]")).click();

Thread.sleep(2000);
```



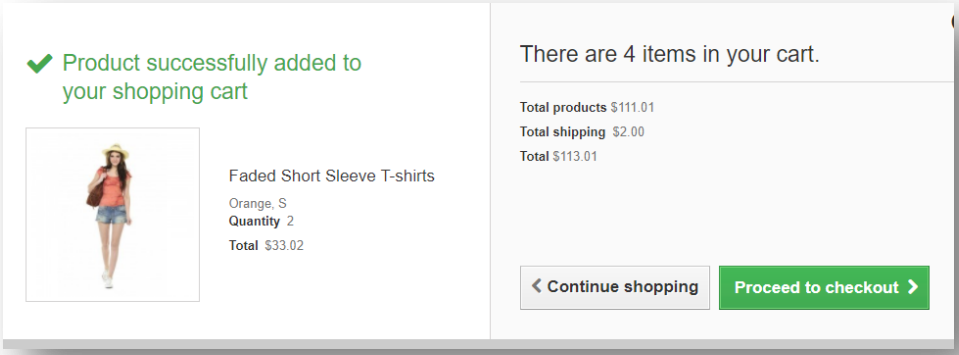
Adding T-shirt product to the cart:

Actions img=new Actions(w);img.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]/a[1]/img[1]"))).build().perform();

w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[2]/div[2]/a[1]/span[1]")).click();

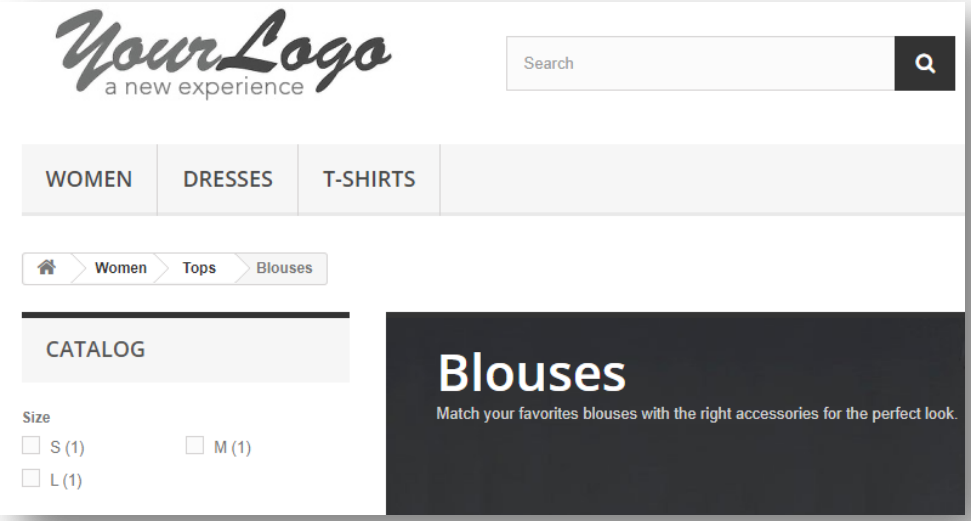
WebElement element = w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[4]/div[1]/div[1]/span[1]"));

```
if (element.isDisplayed() && element.isEnabled()) {

  element.click();

}
```



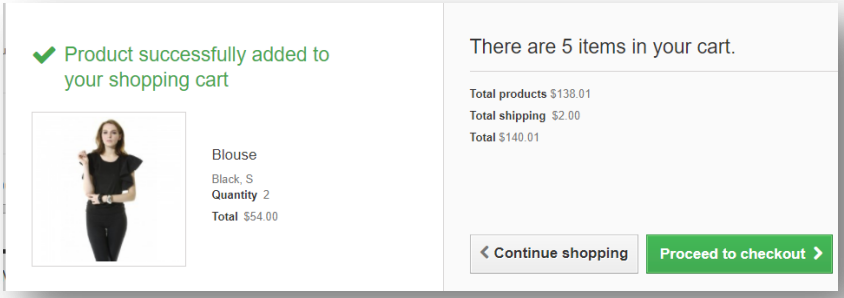
To check the functionality of Blouses button under women tab:

Actions womenblou=new Actions(w);
womenblou.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[1]/a[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[1]/ul[1]/li[1]/ul[1]/li[2]/a[1]")).click();



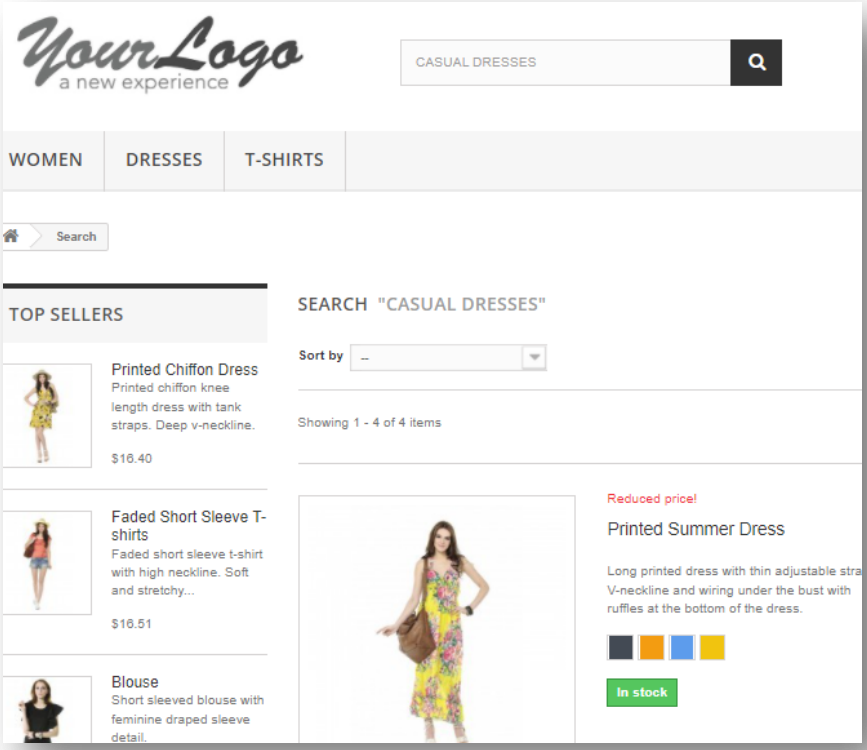
Adding blouse product to the cart:

Actions blouImg = new Actions(w);
blouImg.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]/a[1]/img[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[2]/div[2]/a[1]/span[1]")).click();



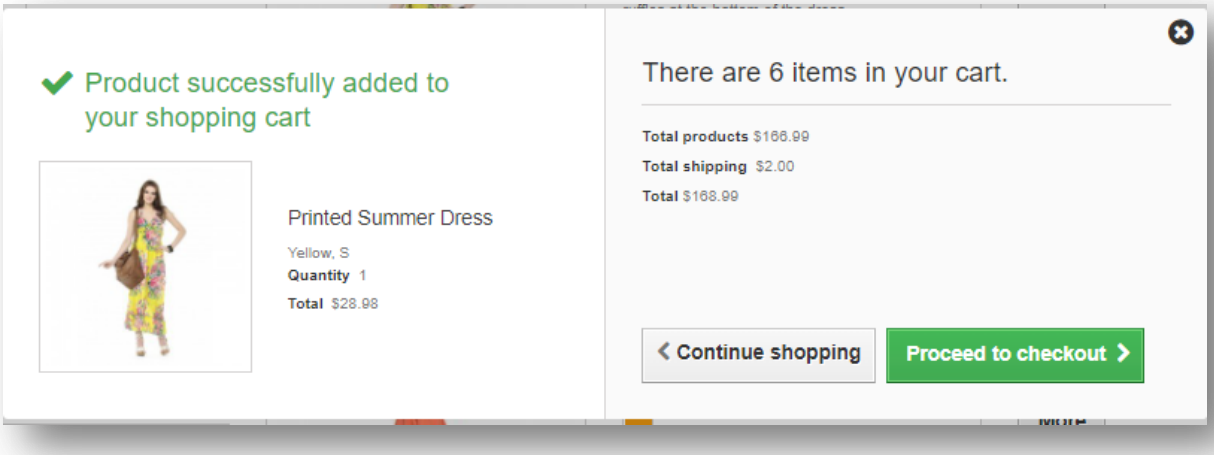
To check the functionality of search by searching as casual dresses:

```
w.findElement(By.xpath("//input[@id='search_query_top']")).sendKeys("CASUAL DRESSES");

 w.findElement(By.xpath("//header/div[3]/div[1]/div[1]/div[2]/form[1]/button[1]")).click();
```



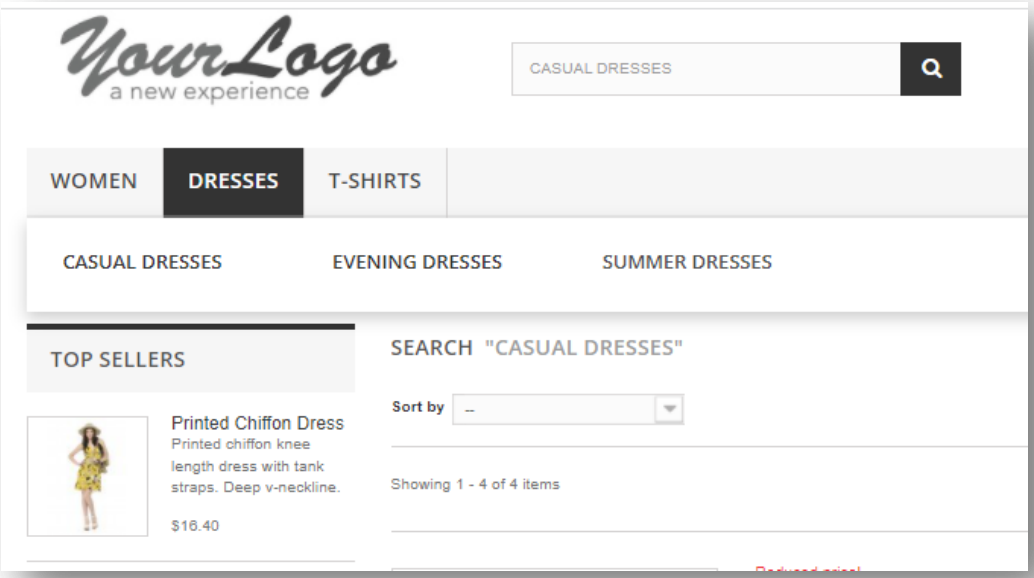
Adding casual dress to the cart:

```
Actions casualDressImg=new Actions(w);

casualDressImg.moveToElement(w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]/a[1]/img[1]"))).build().perform();

w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[2]/div[2]/a[1]/span[1]")).click();

WebElement element1 =
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[4]/div[1]/div[1]/span[1]"));

if (element1.isDisplayed() && element1.isEnabled()) {

 element1.click();

}
```



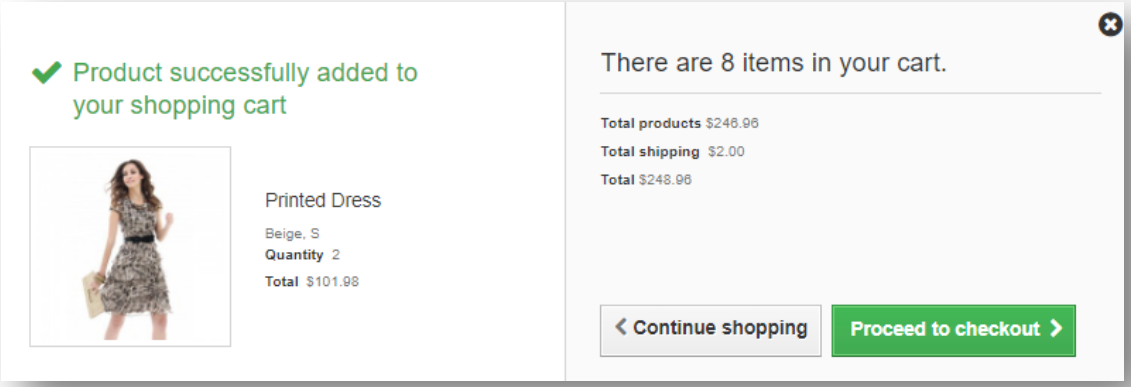
To check the functionality of summer dresses button under dress tab and adding to cart:

```
Actions dresses1=new Actions(w);
        dresses1.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[2]/a[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[2]/ul[1]/li[2]/a[1]")).click();

Actions eveningDressImg=new Actions(w);
eveningDressImg.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]/a[1]/img[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[2]/div[2]/a[1]/span[1]")).click();

WebElement element2 =
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[4]/div[1]/div[1]/span[1]"));

if (element2.isDisplayed() && element2.isEnabled()) {

element2.click();

}
```



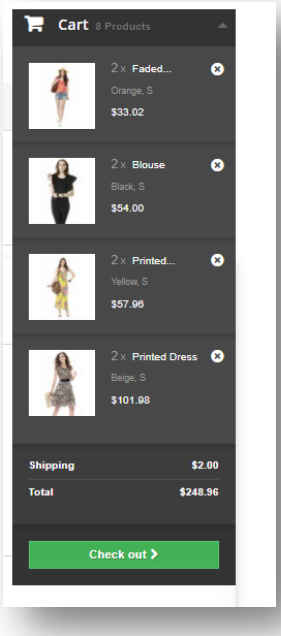
To check the functionality of evening dresses button under dress tab and adding to cart:

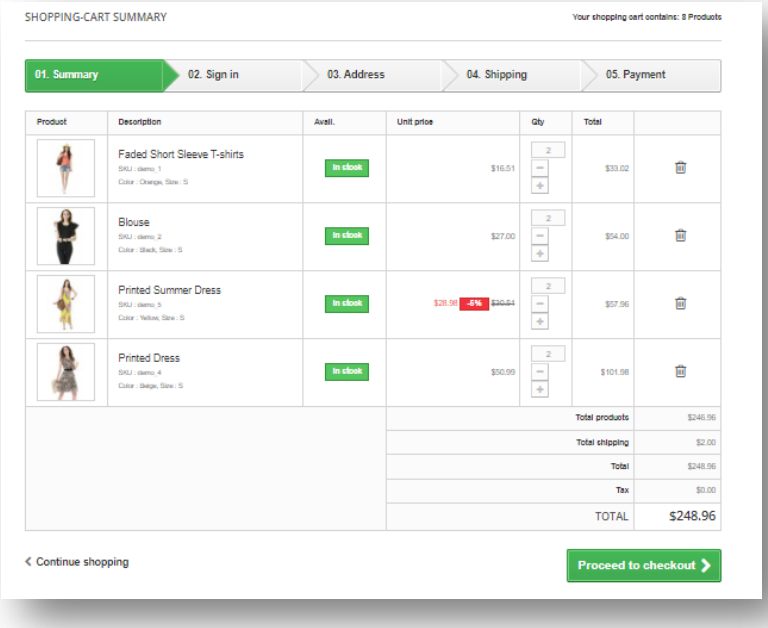
```
Actions dresses2=new Actions(w);
        dresses2.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/di[1]/div[6]/ul[1]/li[2]/a[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[6]/ul[1]/li[2]/ul[1]/li[3]/a[1]")).click();

Actions SummerDressImg=new Actions(w);
SummerDressImg.moveToElement(w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]"))).build().perform();
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[2]/div[2]/a[1]/span[1]")).click();

WebElement element3 =
w.findElement(By.xpath("/html[1]/body[1]/div[1]/div[1]/header[1]/div[3]/div[1]/div[1]/div[4]/div[1]/div[1]/span[1]"));

if (element3.isDisplayed() && element3.isEnabled()) {

element3.click();          }
```



Proceeding to checkout for items in the cart:

```
w.findElement(By.xpath("//header/div[3]/div[1]/div[1]/div[3]/div[1]/a[1]")).click();

w.findElement(By.xpath("//tbody/tr[@id='product_1_1_0_0']/td[7]/div[1]/a[1]/i[1]")).click();

w.findElement(By.xpath("//a[contains(text(),'Sign in')]")).click();

Thread.sleep(2000);
```





To check the functionality of sign-in:

```
@Test

public void SignUp() throws InterruptedException {

w.findElement(By.xpath("//input[@id='email_create']")).sendKeys("saranyarangaraj227@gmail.com");

w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[3]/div[1]/div[1]/div[1]/form[1]/div[1]/div[3]/button[1]/span[1]")).click();

w.findElement(By.xpath("//input[@id='id_gender2']")).click();

w.findElement(By.xpath("//input[@id='customer_firstname']")).sendKeys("Divya");

w.findElement(By.xpath("//input[@id='customer_lastname']")).sendKeys("Raja");

w.findElement(By.xpath("//input[@id='passwd']")).sendKeys("Sara227@");

w.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

WebDriverWait wait=new WebDriverWait(w, 20);

Thread.sleep(2000);

WebElement date_drp = w.findElement(By.xpath("//select[@id='days']"));

Select date = new Select(date_drp);

date.selectByIndex(6);

WebElement month_drp = w.findElement(By.xpath("//select[@id='months']"));

Select month = new Select(month_drp);
```

```
month.selectByIndex(7);
WebElement year_drp = w.findElement(By.xpath("//select[@id='years']"));
Select year = new Select(year_drp);
year.selectByIndex(20);
w.findElement(By.xpath("//input[@id='firstname']")).sendKeys("Divya");
w.findElement(By.xpath("//input[@id='lastname']")).sendKeys("Raja");
w.findElement(By.xpath("//input[@id='company']")).sendKeys("ABC&Co");
w.findElement(By.xpath("//input[@id='address1']")).sendKeys("Egmore");
w.findElement(By.xpath("//input[@id='address2']")).sendKeys("Xy Street");
w.findElement(By.xpath("//input[@id='city']")).sendKeys("Chennai");
Select state= new Select(w.findElement(By.xpath("//select[@id='id_state']")));
state.selectByVisibleText("Indiana");
w.findElement(By.xpath("//input[@id='postcode']")).sendKeys("12345");
Select country=new Select(w.findElement(By.xpath("//select[@id='id_country']")));
country.selectByVisibleText("United States");
w.findElement(By.xpath("//textarea[@id='other']")).sendKeys("Other Area");
w.findElement(By.xpath("//input[@id='phone']")).sendKeys("9874563210");
w.findElement(By.xpath("//input[@id='phone_mobile']")).sendKeys("9632587410");
w.findElement(By.xpath("//input[@id='alias']")).sendKeys("Chennai");
w.findElement(By.xpath("//button[@id='submitAccount']")).click();
w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[1]/a[1]/i[1]")).click();
w.close();
```

YOUR PERSONAL INFORMATION

Title

Mr. Mrs.

First name *

Last name *

Email *

monikrishnar97@gmail.com

Password *

(Five characters minimum)

Date of Birth

- - -

Sign up for our newsletter!

Receive special offers from our partners!

YOUR ADDRESS

First name *

Last name *

Company

Address *

Street address, P.O. Box, Company name, etc.

Address (Line 2)

Apartment, suite, unit, building, floor, etc...

City *

State *

-

Zip/Postal Code *

Country *

United States

Additional information

You must register at least one phone number.

Home phone

Mobile phone *

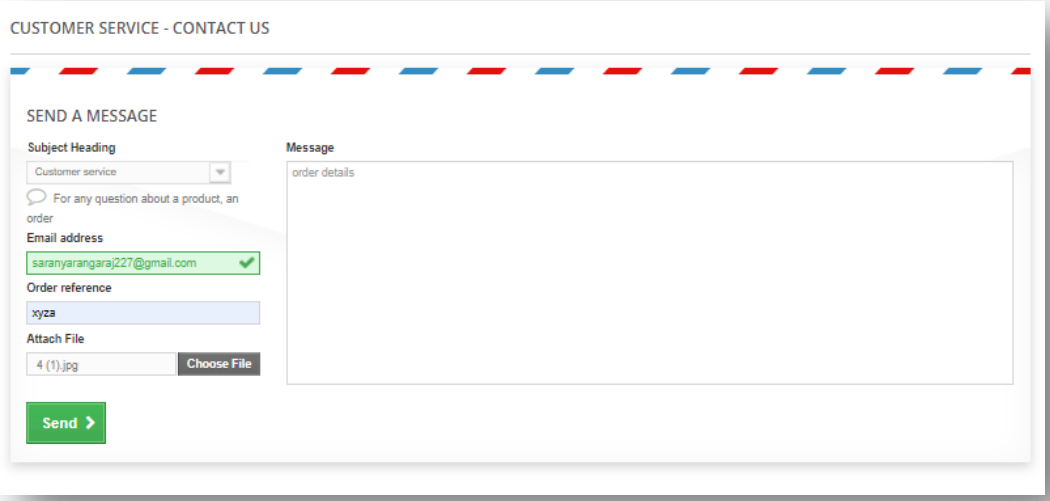
Assign an address alias for future reference. *

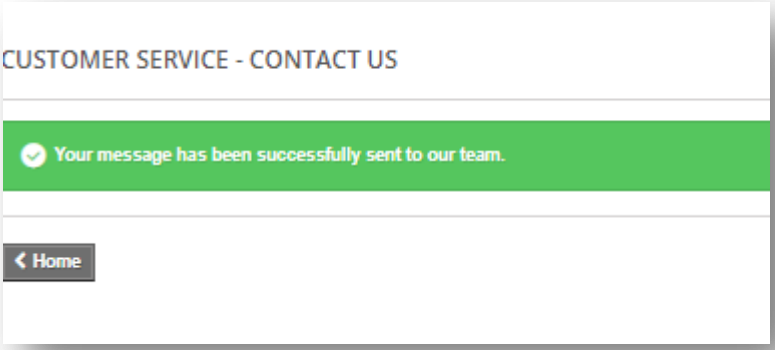
My address

Register

CUSTOMER SERVICE - CONTACT US

```
w.findElement(By.xpath("//header/div[2]/div[1]/div[1]/nav[1]/div[2]/a[1]")).click();

Select sub= new Select(w.findElement(By.xpath("//select[@id='id_contact']")));

sub.selectByVisibleText("Customer service");

w.findElement(By.xpath("//input[@id='email']")).sendKeys("saranyarangaraj227@gmail.com");

w.findElement(By.xpath("//input[@id='id_order']")).sendKeys("xyza");

w.findElement(By.xpath("//textarea[@id='message']")).sendKeys("Order details");

w.findElement(By.xpath("//button[@id='submitMessage']")).click();

w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[1]/a[1]")).click();
```





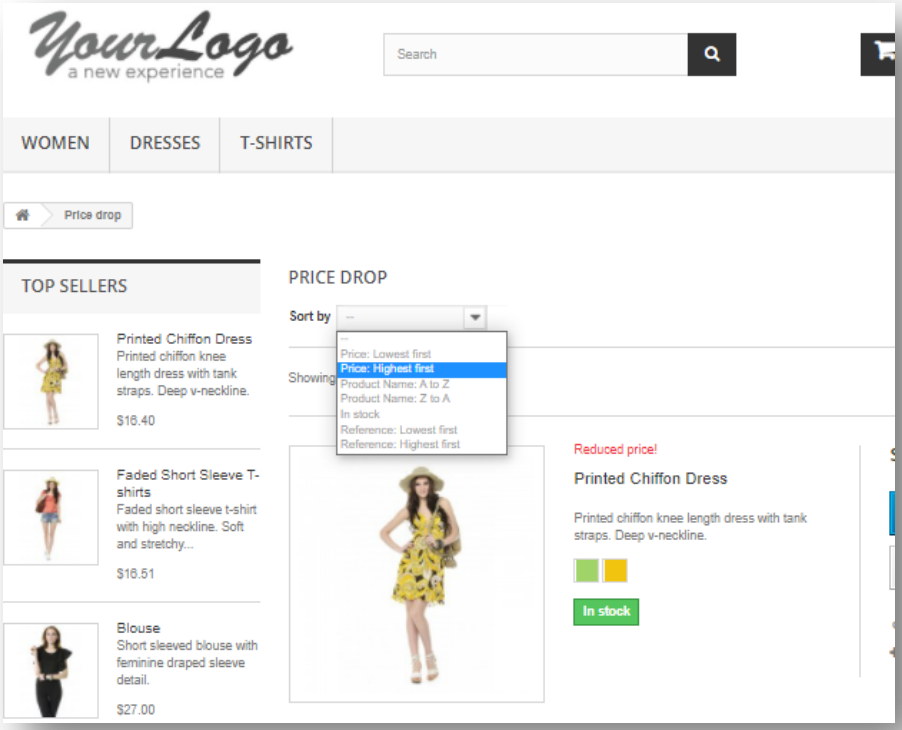
To check drop-down functionality by choosing highest rate at first:

w.findElement(By.xpath("//a[contains(text(),'Specials')]")).click();

Select spl=new Select(w.findElement(By.xpath("//select[@id='selectProductSort']")));

spl.selectByVisibleText("Reference: Highest first");

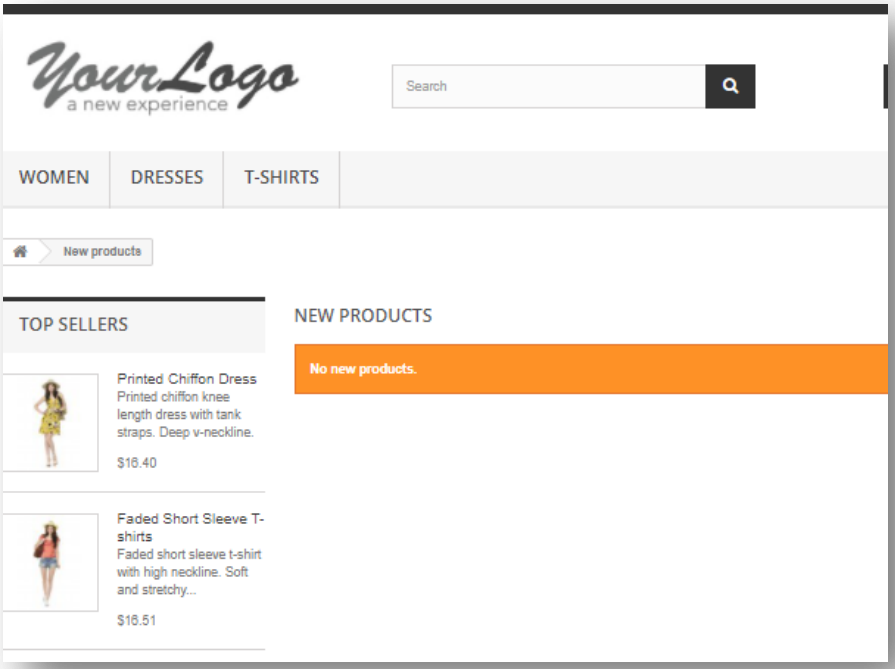
w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[3]/div[2]/ul[1]/li[1]/div[1]/div[1]/div[1]")).click();



To test if any new products are available:

w.findElement(By.xpath("//a[contains(text(),'New products')]")).click();

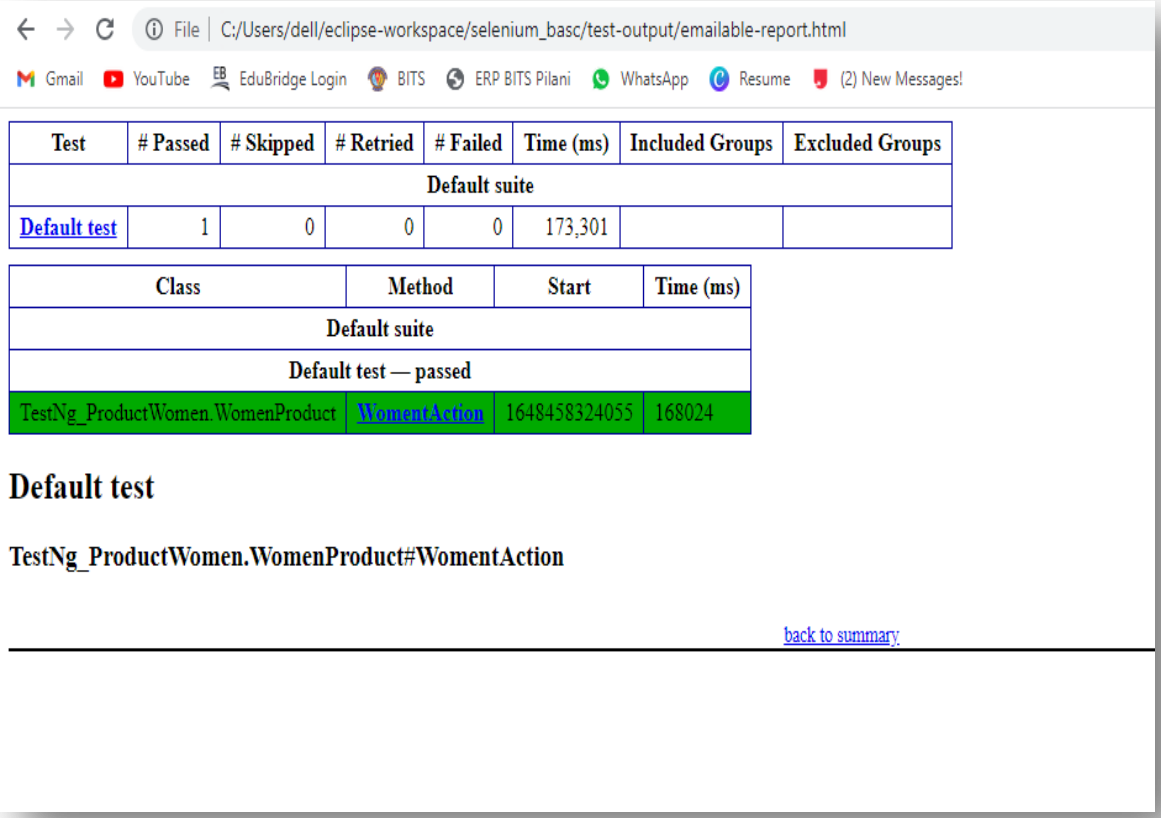
w.findElement(By.xpath("//body/div[@id='page']/div[2]/div[1]/div[1]/a[1]")).click();



OUTPUT:

```
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 98.0.4758.80 (7f0488e8ba0d8e019187c6325a16c29d9b7f4989-
refs/branch-heads/4758@{#972}) on port 32974
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for
suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1648458323.301][WARNING]: This version of ChromeDriver has not been tested with
Chrome version 99.
Mar 28, 2022 2:35:23 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
PASSED: WomentAction

===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

TestNG Report:



File | C:/Users/dell/eclipse-workspace/selenium_basc/test-output/emailable-report.html

Gmail YouTube EduBridge Login BITS ERP BITS Pilani WhatsApp Resume (2) New Messages!

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	0	173,301		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
TestNg_ProductWomen.WomenProduct	WomentAction	1648458324055	168024

Default test

TestNg_ProductWomen.WomenProduct#WomentAction

back to summary

Thank you!!