

SOFTWARE QUALITY ASSURANCE PROFESSIONAL PROGRAM

Individual Assignment



DECLARATION

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TABLE OF CONTENT

DE	CLARA	ΓΙΟΝ	i
AC]	KNOWL	EDGEMENT	ii
TAl	BLE OF	CONTENT	iii
LIS	T OF FIG	GURES	iv
LIS	T OF TA	ABLES	V
1.	INTRO	DUCTION	1
1.	1 Test	t Tools	2
3.	1 Syst	tem overview	4
3.	2 Flov	w diagrams	5
	3.2.1	User Login	5
	3.2.1	Add to cart	6
	3.2.2	Checkout: Your Cart	7
	3.2.4	Add your Information	8
	3.2.5	Checkout: Overview	9
4.T]	EST CAS	SES	10
4.	1.1 Login		10
4.	1.2 Add t	o cart	12
4.	1.3 Check	kout: Your Cart	14
4.	1.4 C	heckout: Your Information	16
4.	1.5 Check	kout: Overview	18
5.	ISSUES		20
6.	REFER	ENCES	21
1.	APPEN	NDICES	22



LIST OF FIGURES

Figure 3. 1 System overview	4
Figure 3. 2 User Login	5
Figure 3. 3 Add to cart	6
Figure 3. 4 Checkout: Your Cart	7
Figure 3. 5 Add your Information	8
Figure 3. 6 Checkout: Overview	9
Figure 4. 1 Login Test Evidence	1.1
Figure 4. 1 Login Test Evidence	11
Figure 4. 2 Add to cart Evidence	13
Figure 4. 3 Your Cart Evidence	
Figure 4. 4 Checkout: Your Information Evidence	17
Figure 4. 5 Checkout: Overview - Evidence	



LIST OF TABLES

Table 1. 1 Test Environment	2
Table 1. 2 Test Tool	2
Table 4. 1 Test case: Login Function	
Table 4. 2 Test Case: Add to cart	12
Table 4. 3 Test case: Your Cart	
Table 4. 4 Checkout: Test case :Your Information	
Table 4. 5 Test case: Checkout: Overview	19
Table 5. 1 Issues	20



1. INTRODUCTION

Software testing serves as a crucial evaluation method to verify whether a software product aligns with the specified requirements and guarantees its error-free functionality. The two principal testing approaches are Manual Testing and Automation Testing. In the realm of Manual Software Testing, human Quality Assurance engineers meticulously assess the quality of newly developed software without relying on automated tools. On the other hand, Automated Testing involves leveraging specific tools and frameworks to minimize human involvement and enhance overall quality. The overarching goal of both testing methodologies is to pinpoint and rectify defects, ensuring the end product attains a defect-free status. Recognizing the significance of these practices, software quality assurance engineers must adeptly navigate the realms of both manual testing and test automation to optimize the software development lifecycle. This assignment aims to impart comprehensive knowledge about the principles, methodologies, and strategic considerations underlying both test automation and manual testing. for that we use the "Swag Labs" open-source online shopping website web portal.

The purpose of this assignment is to apply the knowledge that we gain from the Software Quality Assurance Professional program.



Resources	Description
Laptop	ASUS VivoBook S15
Web Browser	Google Chrome (Version 119.0.6045.160 (Official Build) (64-bit))
Operation System	Windows 11
Internet	Dialog 4G broadband

Table 1. 1 Test Environment

1.1Test Tools

Artifact	Tool
Test case design	Mind maps
Test Automation	Java, TestNG, Selenium
Diagram drawing	Draw.io
Integrated development environment	Eclipse IDE for Enterprise Java and Web Developers - 2023-06

Table 1. 2 Test Tool



2. OBJECTIVES

In this assignment we basically focused about how to develop java basis automation testing code to test a website.

Objective Overview:

This assignment revolves around the development of Java-based automation testing code for website verification.

- I. First, we should implement a test automation code for Login page for the swag lab page
- II. Then we should select a product and add to card the selected item
- III. After that we have to move to the Card and check the details and click checkout
- IV. Then the Your information section we have to fill first name, Last name and zip code and click continue
- V. After that we have to go to the Overview window and check all details and click finish.
- VI. Then the order will be placed with the "Thanks you for your order!" message and click back Home and redirect to the product page

All those things implement by using Selenium, Java, TestNG knowledge that we already studied at SQA sessions



3 METHODOLOGY

3.1 System overview

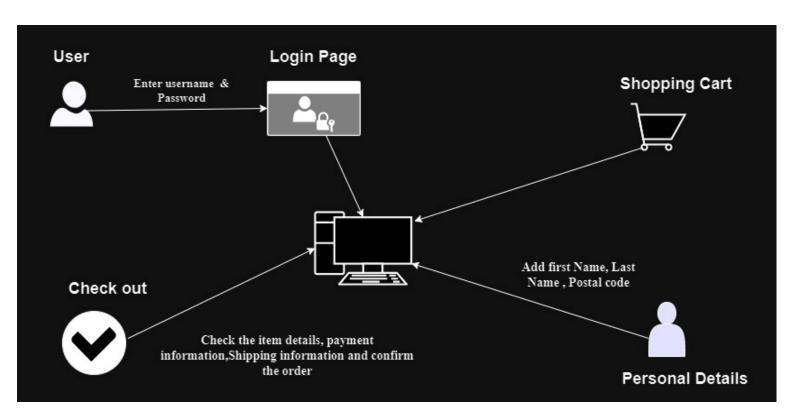


Figure 3. 1 System overview



3.2Flow diagrams

3.2.1 User Login

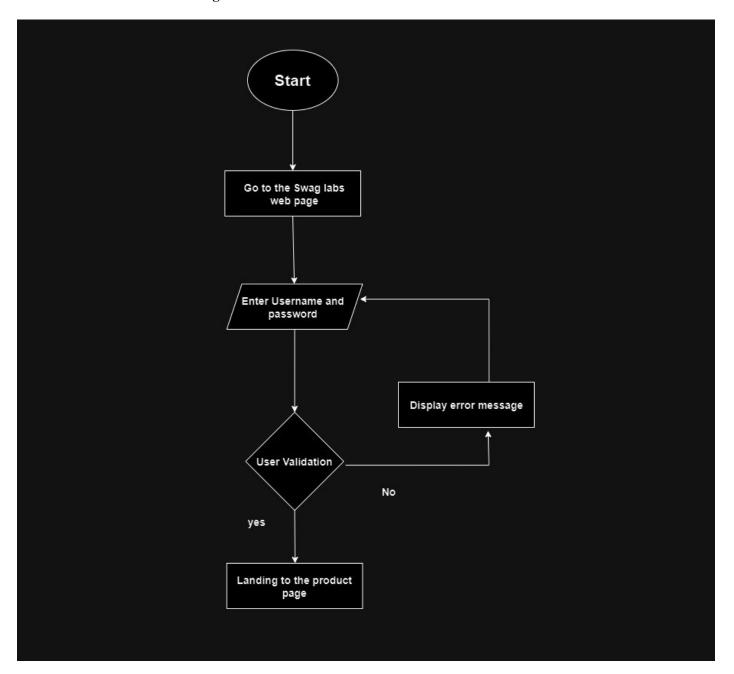


Figure 3. 2 User Login



3.2.1 Add to cart

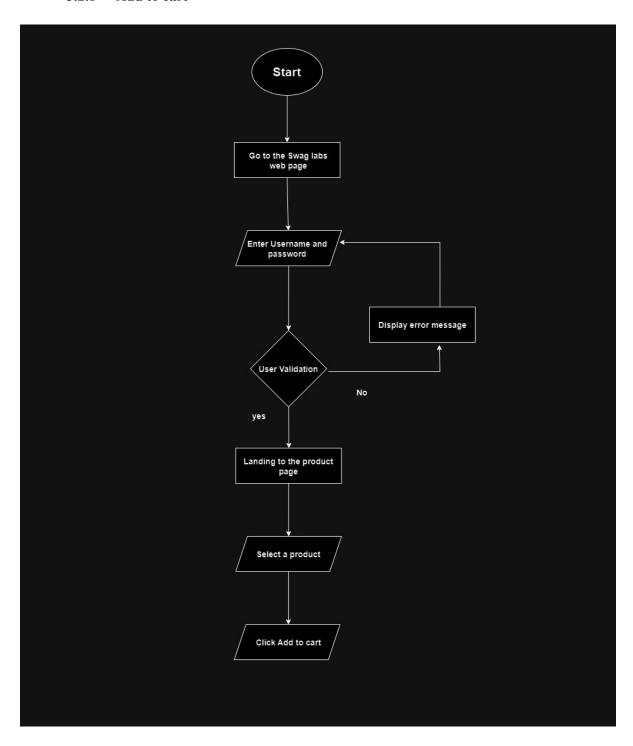


Figure 3. 3 Add to cart



3.2.2 Checkout: Your Cart

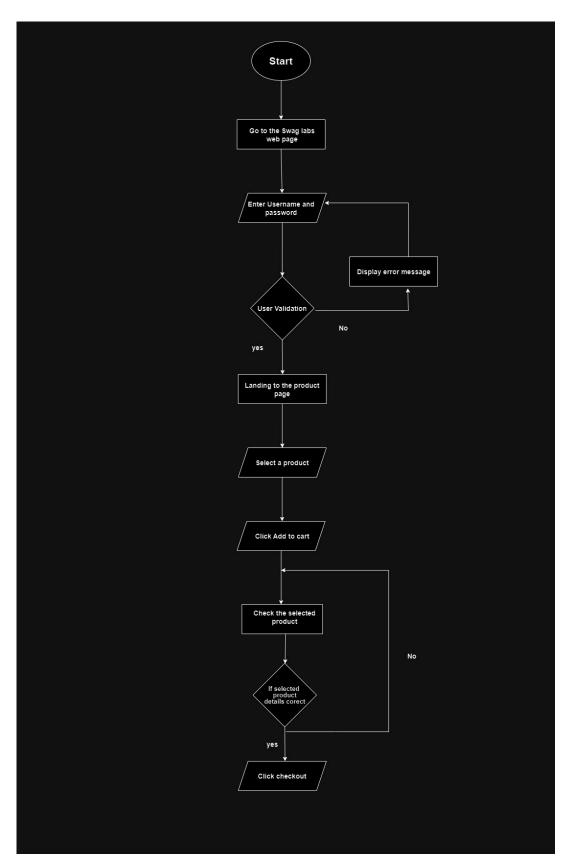


Figure 3. 4 Checkout: Your Cart



3.2.4 Add your Information

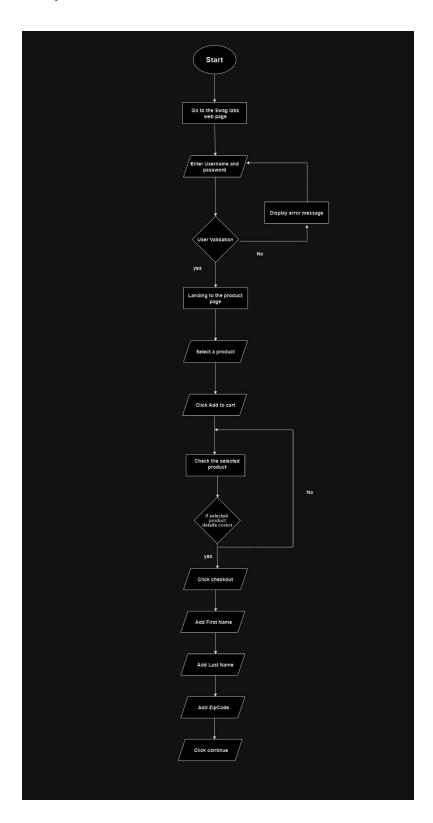


Figure 3. 5 Add your Information



3.2.5 Checkout: Overview

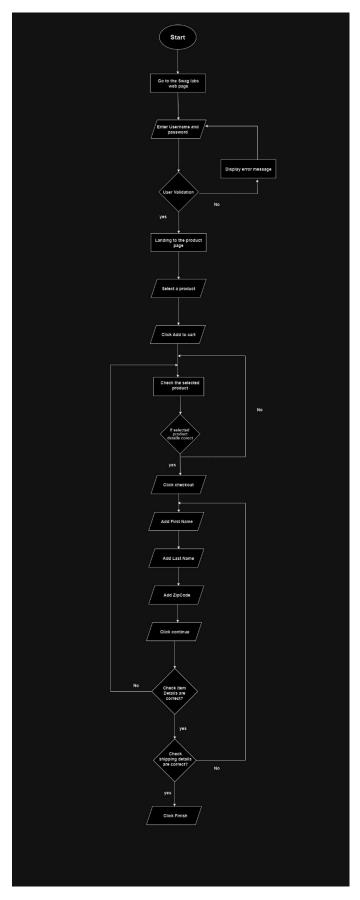


Figure 3. 6 Checkout: Overview



4.TEST CASES

4.1.1 Login

Module: Login Function	
Test Case No:	TC 001
Priority:	High
Test Case Description:	Verify that the using a correct user name and password user can logging to the website
Sub test cases:	TC 001-01 – (Negative scenario) Enter incorrect user name and password and check whether the user can login to the system TC 001-02 Enter valid user name, password check whether the user can login to the system.
Pre-Condition:	Load the Swag Lab login page
Test Steps:	Load the login page > Enter username and password click login button.
Test Data:	Valid Username: standard_user Valid Password: secret_sauce Invalid Username: standarduser Invalid Password: secretsauce
Expected Output:	User should be able to login to the system successfully.
Actual Output:	User login to the system successfully.



Test Evidence:

| Pass | Pass

Table 4. 1 Test case: Login Function



4.1.2 Add to cart

Module: Add to cart	
Test Case No:	TC002
Priority:	High
Test Case Description:	Verify that the selected product can be added to the shopping cart
Sub test cases:	1. TC 002-01 Verify the page title
	2. TC 002-02 - Verify that the selected item can added to the shopping cart
Pre-Condition:	User should be login to the site and can access to the product page.
Test Steps:	Login to the system > Select product > Click Add to cart button
Test Data:	N/A
Expected Output:	Successfully added the item to the shopping cart
Actual Output:	Successfully added the item to the shopping cart
Status (Pass/Fail):	PASS
Test Evidence:	

Table 4. 2 Test Case: Add to cart





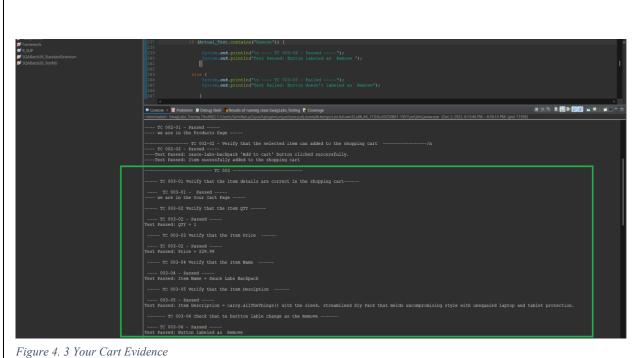
4.1.3 Checkout: Your Cart

Module: Your Cart	
Test Case No:	TC003
Priority:	High
Test Case Description:	Verify that the item details are correct in the shopping cart
Sub test cases:	TC 003-01 Verify that the item details are correct in the shopping cart
	2. TC 003-02 Verify that the Item QTY
	3. TC 003-03 Verify that the Item Price
	4. TC 003-04 Verify that the Item Name
	5. TC 003-05 Verify that the Item description
	6. TC 003-06 Check that the button label change as the Remove
Pre-Condition:	First user should log to the swag lab page then user should be select a product and add selected item to the cart the user can navigate to your cart section
Test Steps:	Login to the system > select item > added to the shopping cart > check selected item details > click checkout
Test Data:	N/A
Expected Output:	Details in the shopping cart are matched with the details with selected item details.
Actual Output:	Details in the shopping cart are matched with the details with selected item details successfully



Status (Pass/Fail):	PASS
Test Evidence:	

Table 4. 3 Test case: Your Cart





4.1.4 Checkout: Your Information

Module: Checkout: Your Information	
Test Case No:	TC004
Priority:	High
Test Case Description:	Verify that the customer information can be added to the system.
Sub test cases:	1. TC 004-01 Verify that the we are navigating to the Checkout: Your Information Page.
	2. TC 004-02 Verify that the all required all filled.
Pre-Condition:	First user should log to the swag lab page then user should be select a product and add selected item to the cart and click check out then it navigated to your information section
Test Steps:	Login to the system > Select item > Added to the shopping cart > Check selected item details > Click checkout > Enter first name > Enter last name > Enter postal code > Click continue button.
Test Data:	First Name - Samitha Last Name – Michael Zip/Postal Code - 61230
Expected Output:	Successfully added the customer information to the system
Actual Output:	User retrieve user details within the system successfully.
Status (Pass/Fail):	PASS



Test Evidence:

Table 4. 4 Checkout: Test case : Your Information

Figure 4. 4 Checkout: Your Information Evidence



4.1.5 Checkout: Overview

Module: Checkout: Overview	
Test Case No:	TC005
Priority:	High
Test Case Description:	To verify that Item details, Shipping details are correct to finalize the order
Sub test cases:	1. TC 005-01 Verify that the we are redirect to the Checkout: Overview page
	2. TC 005-02 Verify that Item QTY in Checkout: Overview page
	3. TC 005-03 Verify that Item price in Checkout: Overview page
	4. TC 005-04 Verify that Item Name in Checkout: Overview page
	5. TC 005-05 Verify that Item Description in Checkout: Overview page
	6. TC 005-06 Verify that Payment Information in Checkout: Overview page
	7. TC 005-07 Verify that Shipping Information in Checkout: Overview page
	8. TC 005-08 Verify that Item Total in Checkout: Overview page
	9. TC 005-09 Verify that Tax amount in Checkout: Overview page
	10. TC 005-10 Verify that Total amount in Checkout: Overview page



Pre-Condition:	First user should log to the swag lab page then user should be select a product and add selected item to the cart and click check out then and add your information and click continue and then navigate to the Checkout: Overview page
Test Steps:	Login to the system > Select item > Added to the shopping cart > Check selected item details > Click checkout > Enter first name > Enter last name > Enter postal code > Click continue button. > Check all details > click Finish
Test Data:	N/A
Expected Output:	All entered details are matched with the Overview details successfully.
Actual Output:	All entered details are matched with the Overview details successfully.
Status (Pass/Fail):	PASS

Test Evidence:

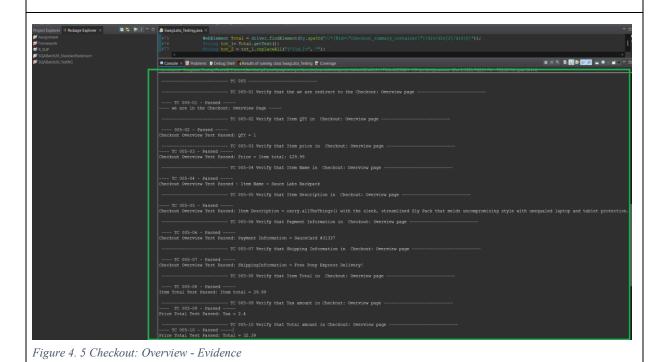


Table 4. 5 Test case: Checkout: Overview



5. ISSUES

Issues	Mitigation
Time management	Worked according to the planned schedule.
Identify the assignment requirement	Refer assessment few times and refer lecture recordings.
Lack of knowledge with automation script coding	Refer lecture materials, tutorial points, and YouTube videos.
Lack of the java cording knowledge	Refer lecture materials, tutorial points, and YouTube videos.

Table 5. 1 Issues



6. REFERENCES

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1. APPENDICES

Source Code

```
oackage Assignment;
import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
     public String pagetitie,
public int cartQuantityValue;
public int Actual_Qty;
public String itemPriceElement;
public String itemNameElement;
public String itemDescriptionElement;
     System.setProperty("webdriver.chrome.driver", driverpath);
     driver.manage().window().maximize();
     driver.get(baseURL);
     System.out.println("******
     System.out.println("----- TC 001-01 - Verify that
     driver.findElement(By.id("user-name")).sendKeys("standarduser");
     driver.findElement(By.id("password")).sendKeys("secretsauce");
     driver.findElement(By.id("login-button")).click();
```



```
String errorMessage =
v[3]/h3")).getText();
     if (errorMessage.equals(Actual Text)) {
            System.out.println("---- TC 001-01 - Passed ----- ");
            System.out.println("Unsucessfully Logging to the Swag Labs");
            System.out.println("Test Passed: User cannot logging to system
with-out correct user name and password \n");
                  System.out.println("---- TC 001-01 - Failed ----");
                  System.out.println("Test Failed: User can logging to
                 System.out.println("Sucessfully Logging to the Swag
      driver.navigate().refresh();
      Thread.sleep(3000);
      System.out.println("-----
      driver.findElement(By.id("user-name")).sendKeys("standard user");
      driver.findElement(By.id("password")).sendKeys("secret sauce");
      driver.findElement(By.id("login-button")).click();
     pagetitle =
")).getText();
      if (pagetitle.equals(Actual Text)) {
            System.out.println("---- TC 001-02 - Passed ----");
            System.out.println("Test Passed: Sucessfully Logging to the "+
pagetitle );
            System.out.println("Test Passed: User can logging to system with
                  System.out.println("----TC 001-02 - Failed -----");
                 System.out.println("Test Failed: Logging Unsucessfull");
                  System.out.println("Test Failed: User can not logging to
```



```
itemPriceElement =
[2]/div[2]/div")).getText();
           itemDescriptionElement =
[2]/div[1]/div")).getText();
driver.findElement(By.className("title")).getText();
           System.out.println("\n\n\*****
                                     ***** \n\n");
           System.out.println("----- TC 002-01 Verify
           if (Expected Text.equals(Actual Text)) {
                 System.out.println("--- TC 002-01 - Passed ----");
                 System.out.println("Test Passed: we are in the "+
Actual Text + "Page");
                       System.out.println("----TC 002 - Failed ----");
                       System.out.println("Test Failed: we are in the "+
Actual Text + "Page");
           Thread.sleep(1000);
           driver.findElement(By.id("add-to-cart-sauce-labs-
backpack")).click();
           System.out.println("\n----- TC 002-02 -
      if (driver.getPageSource().contains("Remove")) {
            System.out.println("--- TC 002-02 - Passed ----");
            System.out.println("Test Passed: sauce-labs-backpack 'Add to
            System.out.println("Test Passed: Item sucessfully added to the
            System.out.println("---TC 002-02 - Failed ----");
            System.out.println("Test Failed: Item not added to cart.");
```



```
Thread.sleep(2000);
     driver.findElement(By.xpath("//*[@id=\"shopping cart container\"]/a"))
.click();
           System.out.println("\n\n\n********
                              ****** \n\n");
           System.out.println("\n---
driver.findElement(By.xpath("//*[@id=\"header container\"]/div[2]/span")).ge
tText();
           if (Expected Text.equals(Actual Text)) {
                 System.out.println("\n ---- TC 003-01 - Passed ----");
                 System.out.println("Test Passed: we are in the "+
Actual Text + " Page");
                       System.out.println("---TC 003-01 - Failed ----");
                       System.out.println("Test Failed: we are in the "+
Actual Text + " Page");
           System.out.println("\n----- TC 003-02 Verify
that the Item QTY");
           WebElement Expected Qtyt =
           String cartQuantityText = Expected Qtyt.getText();
           cartQuantityValue = Integer.parseInt(cartQuantityText);
                  System.out.println("\n ---- TC 003-02 - Passed ----");
                  System.out.println("Test Passed: Quantity is matched, QTY
                  System.out.println("\n ---- TC 003-02 - Failed ----");
                  System.out.println("Test Failed: Quantity is not matched,
QTY = "+ cartQuantityValue);
```



```
System.out.println("\n---
                 String Expected Price =
/div[3]/div[2]/div")).getText();
                 if (Expected Price.equals(itemPriceElement)) {
                        System.out.println("\n ---- TC 003-02 - Passed ---
-");
                        System.out.println("Test Passed: Price is matched,
Price = "+ Expected Price);
                        System.out.println("\n ----TC 003-02- Failed -----
                        System.out.println("Test Failed: Price is not
matched, Price = "+ Expected Price);
                 System.out.println("\n----- TC 003-04
                 String Expected ItemName =
                 if (Expected ItemName.equals(itemNameElement)) {
                        System.out.println("\n ---- TC 003-04 - Passed ----
-");
                        System.out.println("Test Passed: Item Name is
matched, Item Name = "+ Expected ItemName);
                        System.out.println("\n ----TC 003-04- Failed -----
");
                       System.out.println("Test Failed: Item Name is not
matched, Item Name = "+ Expected ItemName);
                 System.out.println("\n----- TC 003-05
                 String Expected ItemDescription =
/div[3]/div[2]/div[1]")).getText();
(Expected ItemDescription.equals(itemDescriptionElement)) {
                        System.out.println("\n ---- 003-05 - Passed -----
                        System.out.println("Test Passed: Item Description
is matched, Item Description = "+ Expected ItemDescription);
```



```
System.out.println("\n ----003-05 - Failed -----");
                         System.out.println("Test Failed: Item Description is
not matched, Item Description = "+ Expected ItemDescription);
                  System.out.println("\n-----
Check that te buttton lable change as the Remove");
driver.findElement(By.xpath("//*[@id=\"remove-sauce-labs-
backpack\"]")).getText();
                 if (Actual Text.contains("Remove")) {
                         System.out.println("\n ---- TC 003-06 - Passed ----
-");
                        System.out.println("Test Passed: Button labeled as
                         System.out.println("\n ---- TC 003-06 - Failed ----
_");
                        System.out.println("Test Failed: Button doesn't
labeled as Remove");
           Thread.sleep(3000);
           driver.findElement(By.xpath("//*[@id=\"checkout\"]")).click();
           System.out.println("\n\n\********
                                     ****** \n\n");
           System.out.println("\n----
           Expected Text= "Checkout: Your Information";
driver.findElement(By.xpath("//*[@id=\"header container\"]/div[2]/span")).ge
tText();
           if (Expected Text.equals(Actual Text)) {
                  System.out.println("\n ---- TC 004-01 - Passed ----");
                  System.out.println("Test Passed: we are in the "+
Actual Text + " Page");
                        System.out.println("\n ---- TC 004-01 - Failed ----
```



```
System.out.println("Test Failed: we are in the "+
Actual Text + "Page");
name\"]")).sendKeys("Samitha");
           driver.findElement(By.xpath("//*[@id=\"last-
name\"]")).sendKeys("Michael");
           Thread.sleep(3000);
           String input text1 =
driver.findElement(By.xpath("//*[@id=\"postal-
code\"]")).getAttribute("value");
           System.out.println("\n----
that the all required all filled");
           if(input text1.isEmpty() && input text2.isEmpty() &&
input text3.isEmpty()) {
                 System.out.println("\n ----TC 004-02 - Failed -----");
                 System.out.println("Test Failed: All requird fileds are
not filled");
                 System.out.println("\n ----TC 004-02 - Passed -----");
                 System.out.println("Test Passed : All requird fileds are
filled");
                 System.out.println(input text1);
                 System.out.println(input_text2);
                 System.out.println(input text3);
           System.out.println("\n\n\n*******
           System.out.println("\n----- TC 005-01 Verify
```



```
driver.findElement(By.xpath("//*[@id=\"header container\"]/div[2]/span")).ge
tText();
           if (Expected Text.equals(Actual Text)) {
                 System.out.println("\n ---- TC 005-01 - Passed -----");
                 System.out.println("Test Passed: we are in the "+
Actual Text + " Page");
                       System.out.println("\n ---- TC 005-01 - Failed -----
");
                       System.out.println("Test Failed: we are in the "+
Actual Text + "Page");
           System.out.println("\n-----
           WebElement Expected Qtyt =
cartQuantityValue = Integer.parseInt(cartQuantityText);
                  System.out.println("\n ---- 005-02 - Passed ----");
                  System.out.println("Test Passed: Item quantity is
matched, QTY = "+ cartQuantityValue);
                  System.out.println("--- 005-02 - Failed ----");
                  System.out.println("Test Failed: Item quantity is not
matched, QTY = "+ cartQuantityValue);
                 Thread.sleep(3000);
                 System.out.println("\n-----
                 String Expected Price =
driver.findElement(By.xpath("//*[@id=\"checkout summary container\"]/div/div
[2]/div[6]")).getText();
                 itemPriceElement = "Item total: "+itemPriceElement;
                 if (itemPriceElement.equals(Expected Price)) {
                       System.out.println("--- TC 005-03 - Passed ----
                        System.out.println("Test Passed: Price is matched,
Price = "+ Expected Price);
```



```
System.out.println("----TC 005-03- Failed ----");
                        System.out.println("Test Failed: Proce is not
matched, Price = "+ Expected Price);
                 System.out.println("\n-----
Verify that Item Name in Checkout: Overview page");
                 String Expected ItemName =
                 if (Expected ItemName.equals(itemNameElement)) {
                        System.out.println("\n---- TC 005-04 - Passed --
");
                        System.out.println("Test Passed: Item Nmae is
matched, Item Name = "+ Expected ItemName);
                        System.out.println("\n---- TC 005-04 Failed -----
");
                        System.out.println("Test Failed: Item Name is not
matched, Item Name = "+ Expected ItemName);
                 System.out.println("\n-----
[1]/div[3]/div[2]/div[1]")).getText();
(Expected ItemDescription.equals(itemDescriptionElement)) {
                        System.out.println("\n--- TC 005-05 - Passed ----
");
                        System.out.println("Test Passed: Item Description
is matched, Item Description = "+ Expected ItemDescription);
                        System.out.println("\n--- TC 005-05 - Failed ----
                        System.out.println("Test Failed: Item Description
is not matched, Item Description = "+ Expected ItemDescription);
                 System.out.println("\n----- TC 005-06
driver.findElement(By.className("summary value label")).getText();
                 if(PaymentInformation.isEmpty()) {
```



```
System.out.println("\n ---- TC 005-06 - Failed --
");
                        System.out.println("est Failed: Payment Information
not Found");
                        System.out.println("\n ---- TC 005-06 - Passed ----
");
                        System.out.println("Test Passed: Payment Information
founded = "+ PaymentInformation);
                  System.out.println("\n-----
driver.findElement(By.xpath("//*[@id=\"checkout summary container\"]/div/div
                  if(ShippingInformation.isEmpty()) {
                        System.out.println("\n ---- TC 005-07 - Failed -----
<mark>"</mark>);
                        System.out.println("Test Failed: ShippingInformation
                        System.out.println("\n ---- TC 005-07 - Passed ----
");
                        System.out.println("Test Passed: ShippingInformation
founded = "+ ShippingInformation);
                  System.out.println("\n-----
                  WebElement ItemTotal =
driver.findElement(By.className("summary subtotal label"));
                        System.out.println("\n ---- TC 005-08 - Failed --
                        System.out.println("Test Failed: Item total not
```



```
System.out.println("\n ---- TC 005-08 - Passed ---
                         System.out.println("Test Passed: Item total = " +
                   System.out.println("\n-----
                   WebElement tax =
driver.findElement(By.className("summary_tax_label"));
                   String tax1= tax.getText();
                   double TotTax = Double.parseDouble(tax2);
                   Double tax3= new Double (TotTax);
                         System.out.println("\n ---- TC 005-09 - Failed ----
-");
                         System.out.println("Test Failed: Tax not Found");
                         System.out.println("---- TC 005-09 - Passed -----
");
                         System.out.println("Test Passed: Tax amount is
founded = " + TotTax);
                   Thread. sleep (1000);
                   System.out.println("\n-----
                   WebElement Total =
[2]/div[8]"));
                   double Total 1 = Double.parseDouble(tot 2);;
                   if(Actual_tot == Total_1) {
        System.out.println("---- TC 005-10 - Passed -----");
                         System.out.println("Price Total Test Passed: Total =
                         System.out.println("---- TC 005-10 - Failed ----");
                         System.out.println("Price Total - Tax Failed: Total
```



```
Thread.sleep(3000);
           driver.findElement(By.id("finish")).click();
           System.out.println("\n\n*************************
driver.findElement(By.xpath("//*[@id=\"header container\"]/div[2]/span")).ge
tText();
           if (Expected Text.equals(Actual Text)) {
                 System.out.println("---- TC 005 - Passed -----");
                 System.out.println("we are in the "+ Actual Text + "
Page");
                       System.out.println("--- TC 005- Failed ----");
                       System.out.println("we are in the "+ Actual Text +
driver.findElement(By.xpath("//*[@id=\"checkout complete container\"]/h2")).
getText();
           System.out.println("\n\n\**********
                                    ***** \n\n");
           if (Expected Text.equals(Actual Text)) {
                 System.out.println("--- TC 023 - Passed ----");
                 System.out.println("Sucessfully Compelete Order ");
                       System.out.println("---TC 023 - Failed ----");
                       System.out.println("Unfortunately, There is an
           Thread.sleep(3000);
           System.out.println("\n\n\********
```

