

CIA – I

AUTOMATION TESTING SELENIUM JAVA - IRC

Mandatory part that to be present in the Project Code

1. Open the relevant website and maximize browser window.
2. Print its Page title.
3. Validate Page Title

Problem Statement 1

An e-commerce website that allows users to search and purchase products online. Design a test suite to test the checkout functionality using Selenium. Consider different test scenarios such as adding products to the cart, searching product, and selecting payment methods.

Question 1

1. Verify that the user can add a product to the cart by clicking on the "Add to Cart" button on the
2. product page.
3. Verify that the user can remove a product from the cart by clicking on the "Remove" button next to the product.
4. Verify that the user can update the quantity of a product in the cart by changing the quantity and clicking on the "Update" button.
5. Verify that the user can proceed to the checkout page by clicking on the "Checkout" button on the cart page.
6. Verify that the checkout process is working as expected and calculates the total cost accurately.

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Coding:

package testing;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import io.github.bonigarcia.wdm.WebDriverManager;

public class Question1

{

public static void main(String[] args) throws InterruptedException

{

ChromeOptions co = new ChromeOptions();

co.addArguments("--remote-allow-origins=*");

WebDriverManager.chromedriver().setup();

WebDriver driver = new ChromeDriver(co);

driver.get("https://www.amazon.in/ASUS-15-6-inch-GeForce-Windows-FA506IHRZ-HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6c1a28b8_61");

driver.manage().window().maximize();

String title = driver.getTitle();

String etitle = "ASUS TUF Gaming A15, 15.6-inch (39.62 cms) FHD 144Hz, AMD Ryzen 5 4600H, 4GB NVIDIA GeForce GTX 1650, Gaming Laptop (8GB/512GB SSD/Windows 11/Black/2.3 Kg), FA506IHRZ-HN111W : Amazon.in: Computers & Accessories";

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```
System.out.print("TestCase 01: \n ASUS TUF Gaming A15,\n 15.6-inch (39.62 cms) FHD  
144Hz,\n AMD Ryzen 5 4600H,\n 4GB NVIDIA GeForce GTX 1650,\n Gaming Laptop (8GB/512GB  
SSD/Windows 11/Black/2.3 Kg),\n FA506IHRZ-HN111W : Amazon.in: Computers &  
Accessories\n\n");
```

```
if(title.equals(etitle)) {
```

```
    System.out.println("TestCase 02: Title is matching with the website");
```

```
}
```

```
else {
```

```
    System.out.println("Title Mismatch");
```

```
}
```

```
driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
```

```
Thread.sleep(5000);
```

```
Boolean present = driver.findElement(By.xpath("//*[@id=\"attach-close_sideSheet-  
link\"]")).isDisplayed();
```

```
System.out.println("TestCase 03: Is the required item added to cart - " + present);
```

```
driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atc_dss_cart?");
```

```
Thread.sleep(5000);
```

```
driver.findElement(By.xpath("//*[@value=\"Delete\"]")).click();
```

```
Thread.sleep(2000);
```

```
String removeText = driver.findElement(By.xpath("//*[@id=\"sc-active-  
cart\"]/div/div[1]/div/h1")).getText();
```

```
String extext = "Your Amazon Cart is empty.";
```

```
if(removeText.equals(extext)) {
```

```
    System.out.println("TestCase 04: The added product from the cart is  
removed");
```

```
}
```

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```
driver.get("https://www.amazon.in/ASUS-15-6-inch-GeForce-Windows-FA506IHRZ-  
HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6c1a28b8_61");
```

```
driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
```

```
Thread.sleep(2000);
```

```
driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atc_dss_cart?");
```

```
Thread.sleep(5000);
```

```
driver.findElement(By.xpath("//*[@id=\"a-autoid-0-announce\"]")).click();
```

```
driver.findElement(By.xpath("//*[@id=\"quantity_2\"]")).click();
```

```
Thread.sleep(2000);
```

```
driver.findElement(By.xpath("//*[@name=\"proceedToRetailCheckout\"] "));
```

```
Thread.sleep(1000);
```

```
String sign = driver.getTitle();
```

```
System.out.print("TestCase 05: Amazon.in Shooing Cart");
```

```
String esign = "Amazon Sign In";
```

```
if(sign.equals(esign)) {
```

```
    System.out.println("Falied");
```

```
}
```

```
else {
```

```
    System.out.println("Successfully signed in");
```

```
}
```

```
}
```

```
}
```

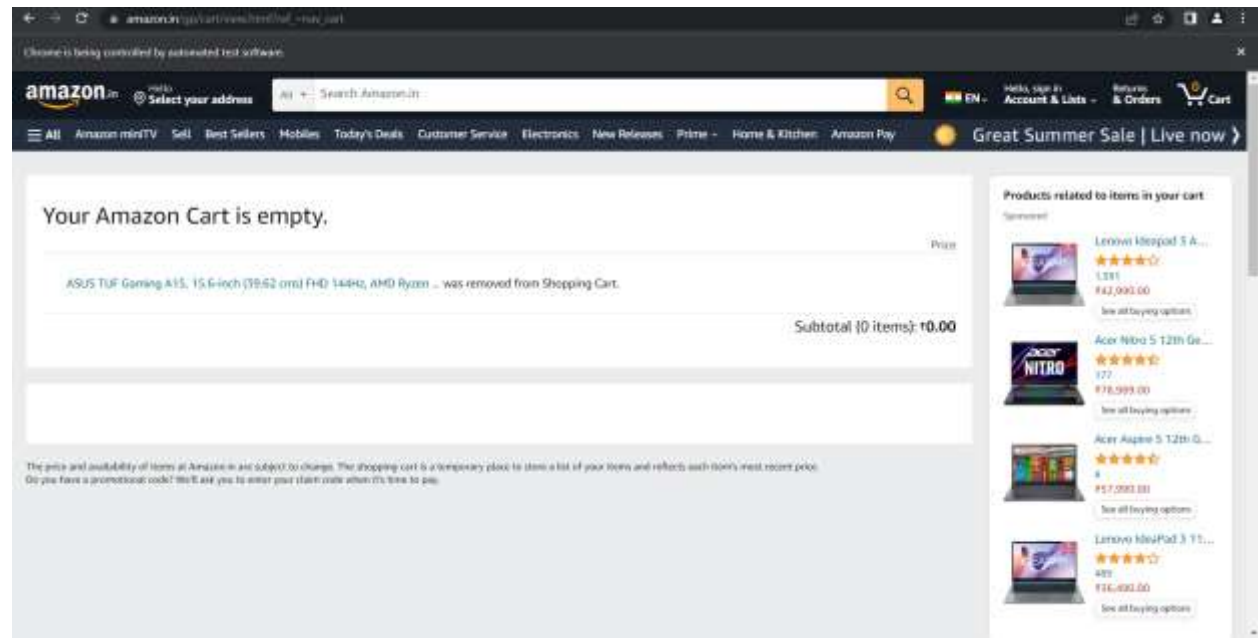
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Output:

```
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation.
SLF4J: See https://www.slf4j.org/faq.html#noProviders for further details.
Starting ChromeDriver 112.0.5613.49 (b6077026760316944-cdd3/basosn-headr/3611@14936)) on port 7112
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
TestCase 01:
ASUS TUF Gaming A15,
15.6-inch (39.62 cms) FHD 144Hz,
AMD Ryzen 5 4600H,
4GB NVIDIA GeForce GTX 1650,
Gaming Laptop (8GB/512GB SSD/Windows 11/Black/2.3 Kg),
FA506HBR2-RN111W : Amazon.in: Computers & Accessories

TestCase 02: Title is matching with the website
TestCase 03: Is the required item added to cart - true
TestCase 04: The added product from the cart is removed
TestCase 05: Amazon.in Shooiping CartSuccessfully signed in
```



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1. Verify that the user can search any product on website and the corresponding search product details needs to be displayed
2. Print minimum 5 Names of the products displayed on the webpage
3. Verify that the user can filter the search results by category, price, and other parameters

Output:

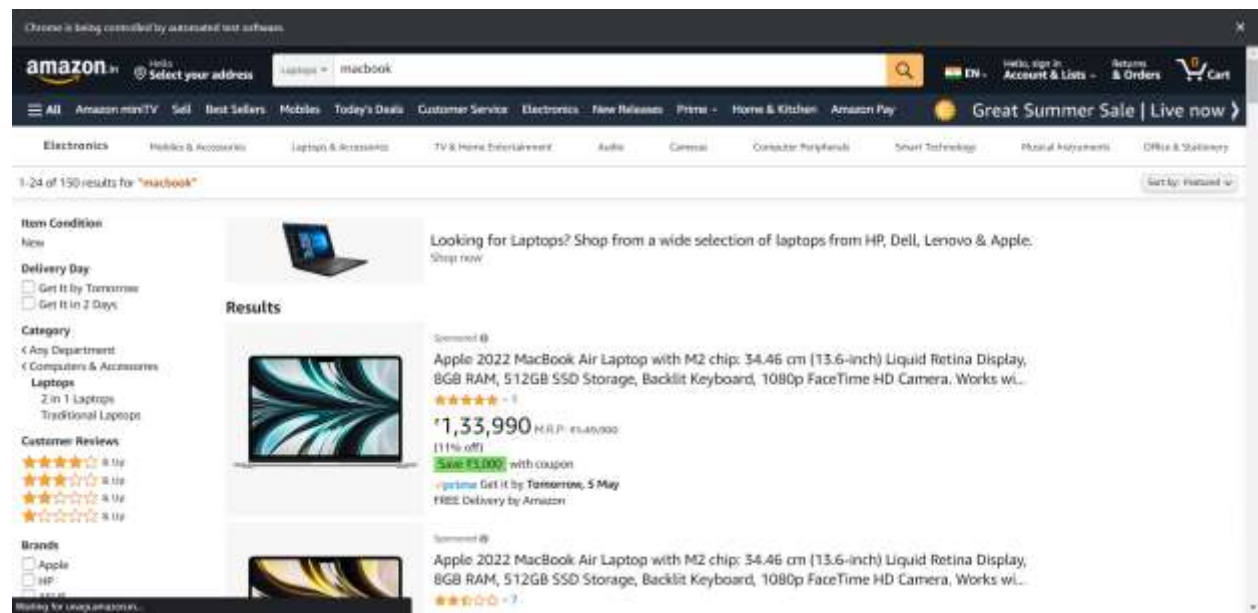
Apple 2020 MacBook Air Laptop M1 chip, 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works with iPhone/iPad. Silver

Apple 2022 MacBook Air Laptop with M2 chip: 14.46 cm (11.6-inch) Liquid Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone/iPad; 3

Apple 2020 MacBook Air Laptop M1 chip: 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works with iPhone/iPad. Space Gray

Apple 2022 MacBook Air Laptop with M2 chip: 14.46 cm (11.6-inch) Liquid Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone/iPad; 3

Apple 2020 MacBook Air Laptop M1 chip: 13.3-inch/33.74 cm Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, FaceTime HD Camera, Touch ID. Works with iPhone/iPad. Silver



Question 3

1. Verify that the once the user clicks on You account link, "Your account page" is displayed
2. Verify that user is able to track/view the orders by clicking on "Your order"
3. Verify that user is able to track the package by clicking on "track package"
4. Verify that user is able to cancel the items from the list by clicking on "cancel items"
5. Verify that user is able to click on "View order details" to see the entire order summary

Coding:

package testing;

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.edge.EdgeOptions;
```

```
import io.github.bonigarcia.wdm.WebDriverManager;
```

```
public class Question3 {
```

```
    public static void main(String[] args) {
```

```
        EdgeOptions co=new EdgeOptions();
        co.addArguments ("--remote-allow-origins=*");
        WebDriverManager.edgedriver().setup ();
        WebDriver driver=new EdgeDriver(co);
        driver.get ("https://www.amazon.in/");
        driver.manage().window().maximize() ;
        String currentTitle=driver.getTitle();
        System.out.println(currentTitle);
```

```

        String expectedTitle="Online Shopping site in India: Shop
Online for Mobiles, Books, Watches, Shoes and More - Amazon.in";
        if(currentTitle.equals(expectedTitle)) {
            System.out.println("Title Matched");
        }
        else {
            System.out.println("Title not Matched");
        }
        driver.findElement(By.xpath("//*[@id=\"nav-link-
accountList\"]")).click();
        WebElement
txtBox1=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
        txtBox1.sendKeys("9789597400");
        driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
        WebElement
txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"));
        txtBox2.sendKeys("Durga@123");

        driver.findElement(By.xpath("//*[@id=\"signInSubmit\"]")).click()
;

        driver.findElement(By.xpath("//*[@id=\"nav-link-
accountList\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"a-
page\"]/div[2]/div/div[2]/div[1]/a/div/div")).click();
        driver.findElement(By.xpath("//*[@id=\"a-autoid-2-
announce\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"ordersInPackage-
container\"]/div/div/a[1]")).click();
    }
}

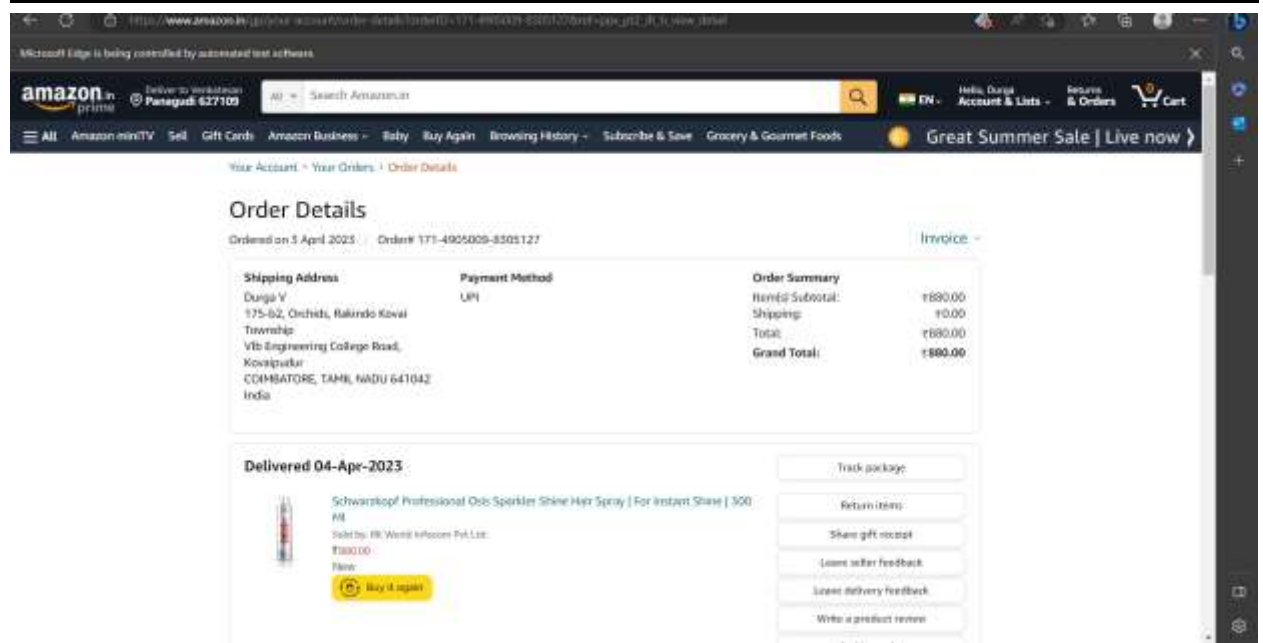
```


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Output:

```
INFO: No SERSU providers were found.
INFO: Defaulting to no-operation SERSU logger implementation
INFO: See https://www.sfrl.com/developers.html#providers for further details.
Starting Chromedriver 112.0.5615.46 (https://chromedriver.chromium.org/downloads/112.0.5615.46/4714-289f/extract-headers/3d158/973d) on port 22836
Only local connections are allowed.
Please see https://chromedriver.chromium.org/faq#configuration for suggestions on keeping Chromedriver safe.
Chromedriver was started successfully.
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
```




The screenshot shows the Amazon.in website interface. The top navigation bar includes the Amazon.in logo, delivery location (Pune 411 005), a search bar, and links for account, lists, orders, and cart. The main content area displays the 'Order Details' for an order placed on 3 April 2023. The order summary shows a subtotal of ₹890.00, shipping of ₹10.00, and a grand total of ₹900.00. The shipping address is Durga V, 175-62, Orchids, Rakind Koval Township, Vlb Engineering College Road, Kovilpattur, COIMBATORE, TAMIL NADU 641042, India. The payment method is UPI. The order is marked as 'Delivered 04-Apr-2023'. The product is a Schwarzkopf Professional Osis Sporkler Shine Hair Spray (For Instant Shine) 300 ml, sold by M. World Infocom Pvt. Ltd. for ₹890.00. A 'Buy it again' button is visible. On the right, there are buttons for 'Track package', 'Return items', 'Share gift receipt', 'Leave seller feedback', 'Leave delivery feedback', and 'Write a product review'.

Order Details

Ordered on 3 April 2023 | Order# 171-4905009-8305127 | Invoice -

Shipping Address	Payment Method	Order Summary
Durga V 175-62, Orchids, Rakind Koval Township Vlb Engineering College Road, Kovilpattur COIMBATORE, TAMIL NADU 641042 India	UPI	Item's Subtotal: ₹890.00 Shipping: ₹10.00 Total: ₹900.00 Grand Total: ₹900.00

Delivered 04-Apr-2023

 Schwarzkopf Professional Osis Sporkler Shine Hair Spray | For Instant Shine | 300 ml
Sold by: M. World Infocom Pvt. Ltd.
₹890.00
Prime
[Buy it again](#)

[Track package](#)
[Return items](#)
[Share gift receipt](#)
[Leave seller feedback](#)
[Leave delivery feedback](#)
[Write a product review](#)

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