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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";
```

```
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_atch_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");

}
```

```
        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_atch_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 Shooping 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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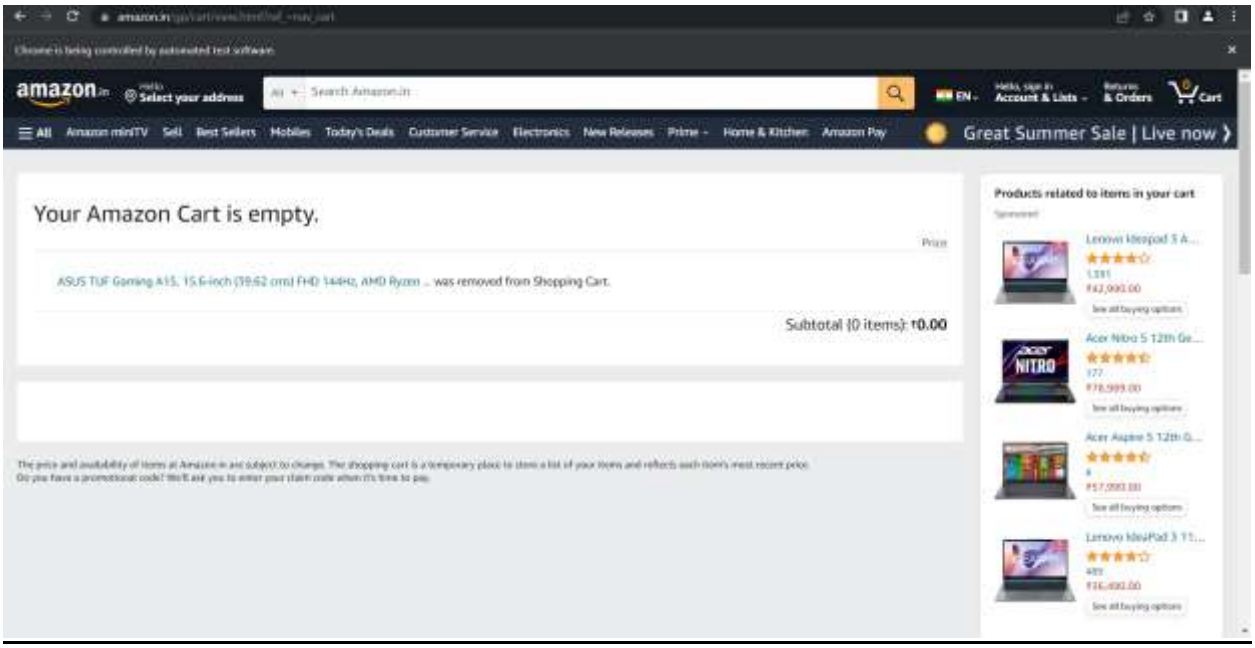
Output:

```
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),
 FA506IHRZ-HN111W : 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 Shooping CartSuccessfully signed in
```



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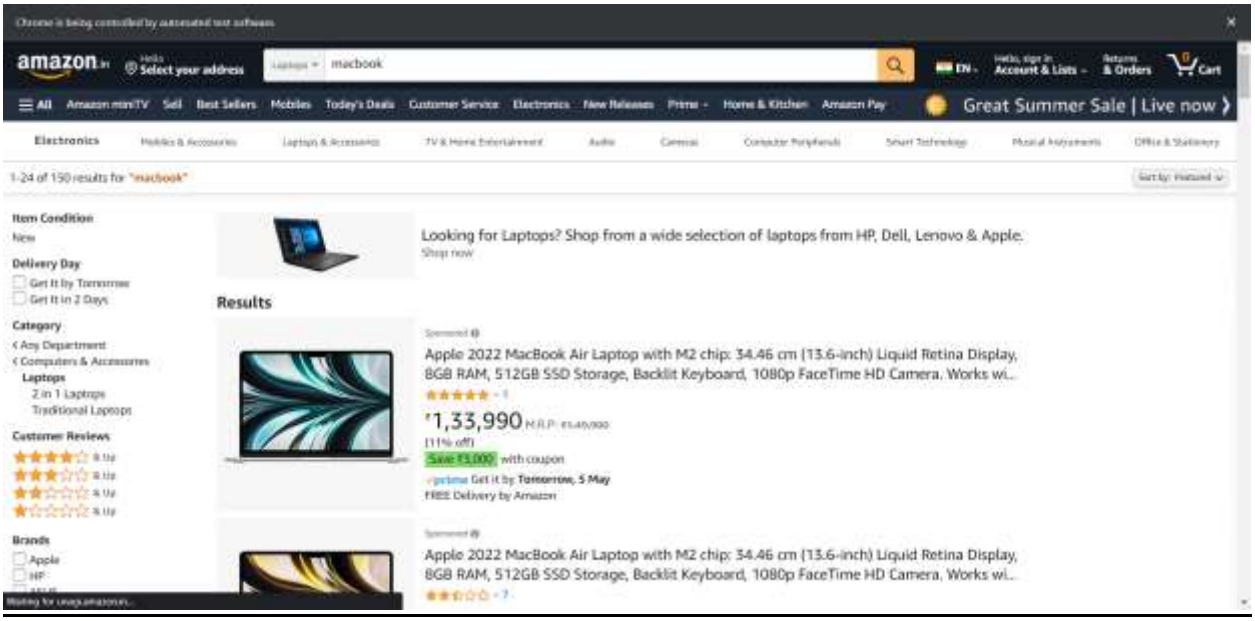
Question_2

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

Coding:

Output:



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Question 3

1. Verity 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
txtBoxl=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
		txtBoxl.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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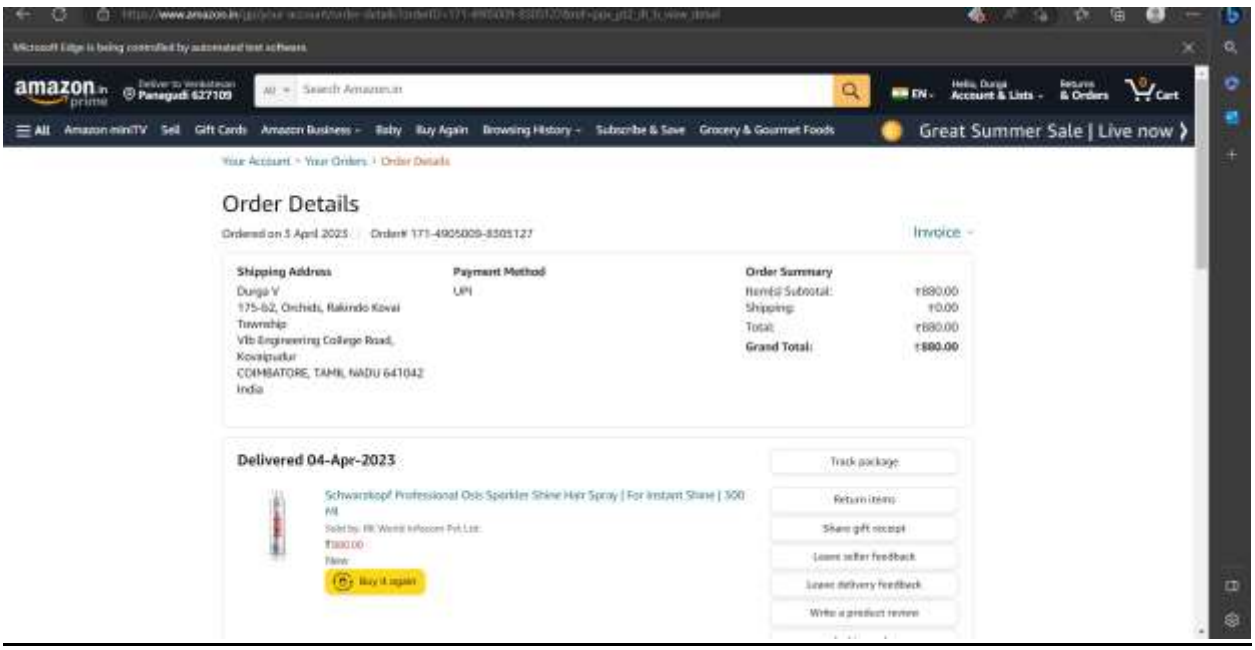
Output:

```
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
```



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