Selenium Practice Assignment – "E-Commerce Website Automation"

Objective

Automate a few test scenarios on a sample e-commerce site using Selenium WebDriver.

Application to Test

Use: **http://automationpractice.com/** (demo site)
If this site is down, you can also try: **https://www.saucedemo.com/**

Assignment Tasks

Task 1 – Login Test

- **Steps:**

    1. Open browser and navigate to the site.

    2. Click on **Sign in**.

    3. Enter valid email and password.

    4. Click **Sign in** button.

    5. Verify the **My Account** page is displayed.

- **Expected Result:** User should successfully log in and see their account dashboard.

    ```java
    package TestNG_practice;


    import org.openqa.selenium.*;

    import org.openqa.selenium.chrome.ChromeDriver;


    public class Login{

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

        WebDriver driver=new ChromeDriver();

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

        System.out.println("Welcome to page");

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

        driver.findElement(By.className("login")).click();

        Thread.sleep(5000);

        driver.findElement(By.id("email")).sendKeys("testuser123@gmail.com");

        driver.findElement(By.id("passwd")).sendKeys("test@123");

        driver.findElement(By.id("SubmitLogin")).click();
    ```

```java
            Thread.sleep(5000);

            driver.findElement(By.className("account"));

            System.out.println("Login successfully");

            driver.quit();

        }

    }
```

Output:

Welcome to page

Login successfully

Task 2 – Product Search and Add to Cart

- **Steps:**

    1. Search for a product using the search bar (e.g., "dress").

    2. Select the first product from search results.

    3. Add it to the cart.

    4. Verify that the success popup/cart message is displayed.

- **Expected Result:** The product is added to the cart and confirmation message appears.

```java
package TestNG_practice;

import org.openqa.selenium.*;

import org.openqa.selenium.chrome.ChromeDriver;


public class Add_cart {

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

        WebDriver driver=new ChromeDriver();

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

        System.out.println("Welcome to page");

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

        WebElement searchBox=driver.findElement(By.id("search_query_top"));

        searchBox.clear();

        searchBox.sendKeys("jeans");

        searchBox.sendKeys(Keys.ENTER);
```

```java
        Thread.sleep(5000);

        driver.findElement(By.xpath("(//a[@class='product_img_link'])[1]")).click();

        for (String handle:driver.getWindowHandles()) {

            driver.switchTo().window(handle);

        }

        driver.findElement(By.xpath("//p[@id='add_to_cart']/button")).click();

        Thread.sleep(5000);

        driver.findElement(By.xpath("//div[@id='layer_cart' and contains(@style,'display:
block')]"));

        System.out.println("Product added to cart successfully");

        driver.quit();

    }

}
```

Output:

Welcome to page

Product added to cart successfully

Task 3 – Checkout Flow

- **Steps:**

    1. Open the shopping cart.

    2. Proceed to checkout.

    3. Fill in address details (if required).

    4. Select payment method.

    5. Complete the purchase.

    6. Verify the order confirmation page.

- **Expected Result:** Order confirmation page should display with order details.

```java
package TestNG_practice;


import org.openqa.selenium.*;

import org.openqa.selenium.chrome.ChromeDriver;
```

```java
public class Checkout_flow {

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

        WebDriver driver=new ChromeDriver();

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

        System.out.println("Welcome to page");

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

        driver.findElement(By.className("login")).click();

        Thread.sleep(2000);

        driver.findElement(By.id("email")).sendKeys("testuser123@gmail.com");

        driver.findElement(By.id("passwd")).sendKeys("test@123");

        driver.findElement(By.id("SubmitLogin")).click();

        Thread.sleep(2000);

        WebElement searchBox=driver.findElement(By.id("search_query_top"));

        searchBox.clear();

        searchBox.sendKeys("jeans");

        searchBox.sendKeys(Keys.ENTER);

        Thread.sleep(3000);

        driver.findElement(By.xpath("(//a[@class='product_img_link'])[1]")).click();

        for (String handle:driver.getWindowHandles()) {

            driver.switchTo().window(handle);

        }

        driver.findElement(By.xpath("//p[@id='add_to_cart']/button")).click();

        Thread.sleep(3000);

        driver.findElement(By.xpath("//a[@title='Proceed to checkout']")).click();

        Thread.sleep(2000);

        driver.findElement(By.xpath("//a[contains(@class,'standard-checkout')]")).click();

        Thread.sleep(2000);

        driver.findElement(By.name("processAddress")).click();

        Thread.sleep(1000);

        driver.findElement(By.id("cgv")).click();

        driver.findElement(By.name("processCarrier")).click();
```

```
        Thread.sleep(1000);

        driver.findElement(By.className("bankwire")).click();

        driver.findElement(By.xpath("//button[@class='button btn btn-default button-
medium']")).click();

        Thread.sleep(3000);

        driver.findElement(By.cssSelector(".cheque-indent strong"));

        System.out.println("Order placed successfully");

        driver.quit();

    }

}
```

Output:

Welcome to page

Order placed successfully

Task 4 – Logout Test

- **Steps:**

    1. Click **Sign out**.

    2. Verify that the login page is displayed again.

- **Expected Result:** User should be successfully logged out.

```
package TestNG_practice;


import org.openqa.selenium.*;

import org.openqa.selenium.chrome.ChromeDriver;


public class Logout {

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

        WebDriver driver=new ChromeDriver();

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

        System.out.println("Welcome to page");

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

        driver.findElement(By.className("login")).click();

        Thread.sleep(3000);
```

```java
driver.findElement(By.id("email")).sendKeys("testuser123@gmail.com");

driver.findElement(By.id("passwd")).sendKeys("test@123");

driver.findElement(By.id("SubmitLogin")).click();

Thread.sleep(3000);

driver.findElement(By.xpath("//a[@class='logout']")).click();

Thread.sleep(4000);

driver.findElement(By.className("login"));

System.out.println("Logout successfully");

driver.quit();
    }
}
```

Output:

Welcome to page

Logout successfully