

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.

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Logintest {

    public static void main(String[] args) {

        WebDriver driver=new ChromeDriver();

        driver.get("https://www.saucedemo.com/");

        System.out.println("Welocme to Login Page");

        WebElement username=driver.findElement(By.id("user-name"));
        username.sendKeys("standard_user");

        WebElement pswd=driver.findElement(By.id("password")); pswd.sendKeys("secret_sauce");


        driver.findElement(By.id("login-button")).click();
```

```
String actualurl="https://www.saucedemo.com/"; String expectedurl=driver.getCurrentUrl();
if(expectedurl.equals(actualurl)) { System.out.println("Login Failed");
}
else {
System.out.println("Login Success");
}
driver.close();
}
```

Output:

Welcome to login page

Login success

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.

```
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.support.ui.Select;
```

```

public class searchandaddtocart {

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

    WebDriver driver=new ChromeDriver();

    driver.get("https://www.saucedemo.com/");

    System.out.println("Welocme to Login Page");

    WebElement username=driver.findElement(By.id("user-name"));
    username.sendKeys("standard_user");

    WebElement pswd=driver.findElement(By.id("password")); pswd.sendKeys("secret_sauce");

    driver.findElement(By.id("login-button")).click();

    String actualurl="https://www.saucedemo.com/"; String expectedurl=driver.getCurrentUrl();
    if(expectedurl.equals(actualurl)) { System.out.println("Login Failed");

    }

    else {

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

    }


    WebElement sort =
    driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select"));
    Select sel = new Select(sort);

    sel.selectByVisibleText("Name (Z to A)");

    driver.findElement(By.id("add-to-cart-test.allthethings()-t-shirt-(red)")).click();

    WebElement
    num=driver.findElement(By.xpath("//*[@id=\"shopping_cart_container\"]/a/span"));

    int nu=Integer.parseInt(num.getText());

    if(nu>0) {

        System.out.println("Item added successfully");

    }

    else{

        System.out.println("item not added");

    }

    Thread.sleep(7000);

    driver.close();

}

```

Output:

Welcome to Login Page

Login Success

Item added 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.

```
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.support.ui.Select;

public class checkoutflow {

    public static void main(String[] args) throws InterruptedException {
        // TODO Auto-generated method stub
        WebDriver driver=new ChromeDriver(); driver.get("https://www.saucedemo.com/");
        System.out.println("Welocme to Login Page");

        WebElement username=driver.findElement(By.id("user-name"));
        username.sendKeys("standard_user");
```

```

WebElement pswd=driver.findElement(By.id("password")); pswd.sendKeys("secret_sauce");

driver.findElement(By.id("login-button")).click();

String actualurl="https://www.saucedemo.com/"; String expectedurl=driver.getCurrentUrl();
if(expectedurl.equals(actualurl)) { System.out.println("Login Failed");

}

else {

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

}

WebElement sort =
driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select"));
Select sel = new Select(sort);

sel.selectByVisibleText("Name (Z to A)");

driver.findElement(By.id("add-to-cart-test.allthethings()-t-shirt-(red)")).click();

WebElement itemname=driver.findElement(By.xpath("//*[@id=\"item_3_title_link\"]/div"));

String itm=itemname.getText();

WebElement
num=driver.findElement(By.xpath("//*[@id=\"shopping_cart_container\"]/a/span")); int
nu=Integer.parseInt(num.getText());

If(nu>0){

    System.out.println("item added successfully");

}

Else{

System.out.println("item not added");

}

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

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

Thread.sleep(3000);

WebElement fname=driver.findElement(By.id("first-name")); fname.sendKeys("sai");

WebElement lname=driver.findElement(By.id("last-name")); lname.sendKeys("kiran");

WebElement zcode=driver.findElement(By.id("postal-code")); zcode.sendKeys("500039");

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

WebElement st=driver.findElement(By.className("inventory_item_name")); String
s=st.getText();

```

```
if(s.equals(itm)) {  
    System.out.println("Verification Successful");  
}  
Else{  
    System.out.println("Verification unsuccessful");  
}  
driver.findElement(By.id("finish")).click();  
Thread.sleep(7000);  
driver.close();  
}  
}
```

Output:

Welcome to Login Page

Login success

Item added successfully

Verification successful

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.

Deliverables

- Source code file(s).
- Test execution screenshot.
- Brief test report with:
 - Test case IDs
 - Steps

- Expected vs. Actual result
- Pass/Fail status

```

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.support.ui.Select;

public class Logout {

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

        WebDriver driver=new ChromeDriver();

        driver.get("https://www.saucedemo.com/");

        System.out.println("Welocme to Login Page");

        WebElement username=driver.findElement(By.id("user-name"));
        username.sendKeys("standard_user");

        WebElement pswd=driver.findElement(By.id("password"));

        pswd.sendKeys("secret_sauce");

        driver.findElement(By.id("login-button")).click();

        String actualurl="https://www.saucedemo.com/"; String expectedurl=driver.getCurrentUrl();
        if(expectedurl.equals(actualurl)) { System.out.println("Login Failed");

        }

        else {

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

        }

        WebElement sort =
        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select"));
        Select sel = new Select(sort);

        sel.selectByVisibleText("Name (Z to A)");

        driver.findElement(By.id("add-to-cart-test.allthethings()-t-shirt-(red)")).click(); WebElement
        itemname=driver.findElement(By.xpath("//*[@id=\"item_3_title_link\"]/div"));

        String itm=itemname.getText();
    
```

```

WebElement
num=driver.findElement(By.xpath("//*[@id=\"shopping_cart_container\"]/a/span")); int
nu=Integer.parseInt(num.getText());

if(nu>0) {

System.out.println("Item added successfully");

}

Else{

System.out.println("Item not added");

}

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

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

Thread.sleep(3000);

WebElement fname=driver.findElement(By.id("first-name")); fname.sendKeys("sai");

WebElement lname=driver.findElement(By.id("last-name")); lname.sendKeys("kiran");

WebElement zcode=driver.findElement(By.id("postal-code")); zcode.sendKeys("500039");

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

WebElement st=driver.findElement(By.className("inventory_item_name"));

String s=st.getText();

if(s.equals(itm)) {

System.out.println("Verification Successful");

}

Else{

System.out.println("Verification unsuccessful");

}

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

driver.findElement(By.id("react-burger-menu-btn")).click();

Thread.sleep(2000);

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

String expected="https://www.saucedemo.com/"; String act=driver.getCurrentUrl();

if(act.equals(expected)) {

System.out.println("Login page displayed successfully after clicking logout");

}

```



```
Thread.sleep(7000);  
driver.close();  
  
}
```

Output:

Welcome to Login Page

Login success

Item added successfully

Verification successful

Login page displayed successfully after clicking logout