

## **Project Agenda :- Swag Labs Automation using page object model and testNG with Selenium.**

Application URL : <https://www.saucedemo.com/v1/index.html>

- Create new Maven Project
  - Group id = com.simplilearn
  - Artifact id = SwagLabs\_TestNg
- Add the dependencies
- Create the Base class, Test classes and Page classes
- LoginTest.java
  - TC01\_LoginSuccessTest
  - TC02\_LoginFailureTest
  - TC03\_LockedUserTest
- HomePageTest.java
  - TC01\_AddToCartTest
- Add page classes
- Add the testng.xml file
- Run the test using testng.xml file
- Push the project to gitHUB

### **Code :-**

- Package – Pages

Login Page.java

```
package pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.testng.Assert;

import tests.baseclass;

public class loginpage {
    WebDriver driver = baseclass.driver;
    @FindBy(css = "input[type='text']")
    WebElement usnm;

    @FindBy(name = "password")
    WebElement pwd;

    @FindBy(css = "input.btn_action")
    WebElement btn;

    @FindBy(xpath = "//h3[@data-test='error']")
    WebElement failerror;

    public loginpage() {
        PageFactory.initElements(driver, this);
    }
}
```

```
public void loginsucess(String Usrm, String Pwd) {  
    usrm.sendKeys(Usrm);  
    pwd.sendKeys(Pwd);  
    btn.click();  
}
```

```
public void LoginFailure(String Expmsg) {  
    String Actualmsg = failerror.getText();  
    Assert.assertEquals(Expmsg, Actualmsg);  
    System.out.println("The expected msg is :- "+ Expmsg);  
    System.out.println("The actual msg is :- "+ Actualmsg);  
}
```

```
public void LockedUser(String lockerror) {  
    String actuallockmsg = failerror.getText();  
    Assert.assertEquals(lockerror,actuallockmsg);  
    System.out.println("The expected msg is :- "+ lockerror);  
    System.out.println("The actual msg is :- "+ actuallockmsg);  
}
```

```
}
```

HomePage.java

```
package pages;
```

```
import org.openqa.selenium.WebDriver;
```

```
import org.openqa.selenium.WebElement;
```

```
import org.openqa.selenium.support.FindBy;
```

```
import org.openqa.selenium.support.PageFactory;
```

```
import tests.baseclass;
```

```
public class homepage {
```

```
    WebDriver driver = baseclass.driver;
```

```
    @FindBy(xpath = "//div[@class='inventory_container']/div/div[1]/div[3]/button")
```

```
    WebElement cartbutton;
```

```
    public homepage() {
```

```
        PageFactory.initElements(driver, this);
```

```
    }
```

```
    public void carttest() {
```

```
        cartbutton.click();
```

```
    }
```

```
}
```

Package – Test

BaseClass.java

```
package tests;
```

```
import java.time.Duration;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.testng.annotations.AfterMethod;
```

```
import org.testng.annotations.BeforeMethod;
```

```
public class baseclass {
```

```
    public static WebDriver driver;
```

```
    @BeforeMethod()
```

```
    public void BeforeTest() {
```

```
        driver = new ChromeDriver();
```

```
        driver.get("https://www.saucedemo.com/v1/index.html");
```

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

```
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5000));
```

```
    }
```

```
    @AfterMethod()
```

```
    public void AfterTest() {
```

```
        driver.close();
```

```
    }}
```

LoginTest.java

package tests;

import org.testng.annotations.Listeners;

import org.testng.annotations.Test;

import pages.loginpage;

@Listeners(Listener.class)

public class logintest extends baseclass {

    @Test

    public void TC01\_LoginSuccessTest() {

        loginpage lp = new loginpage();

        lp.loginsucess("standard\_user","secret\_sauce");

    }

    @Test

    public void TC02\_LoginFailureTest() {

        loginpage lg = new loginpage();

        lg.loginsucess("standard\_user", "asd@123");

        String msg = "Epic sadface: Username and password do not match any user in this service";

        lg.LoginFailure(msg);

    }

    @Test

    public void TC03\_LockedUserTest() {

        loginpage lg = new loginpage();

        lg.loginsucess("locked\_out\_user","secret\_sauce");

        String lock = "Epic sadface: Sorry, this user has been locked out.";

        lg.LockedUser(lock);}

```
}
```

### HomeTest.java

```
package tests;
```

```
import org.testng.annotations.Listeners;
```

```
import org.testng.annotations.Test;
```

```
import pages.homepage;
```

```
import pages.loginpage;
```

```
@Listeners(Listener.class)
```

```
public class hometest extends baseclass {
```

```
    @Test
```

```
    public void Addtocart(){
```

```
        loginpage lg = new loginpage();
```

```
        homepage hp= new homepage();
```

```
        lg.loginsucess("standard_user", "secret_sauce");
```

```
        hp.carttest();
```

```
    }
```

```
}
```

Listener.java

package tests;

import java.io.File;

import java.io.IOException;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.testng.ITestContext;

import org.testng.ITestListener;

import org.testng.ITestResult;

public class Listener implements ITestListener {

    @Override

    public void onTestStart(ITestResult result) {

        // TODO Auto-generated method stub

    }

    @Override

    public void onTestSuccess(ITestResult result) {

        // TODO Auto-generated method stub

        TakesScreenshot obj = (TakesScreenshot) baseclass.driver;



```
File source = obj.getScreenshotAs(OutputType.FILE);
File target = new File("Screenshot/" +result.getName() + ".png");
try {
    FileUtils.copyFile(source,target);
} catch (IOException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
}

}
```

```
@Override
public void onTestFailure(ITestResult result) {
    // TODO Auto-generated method stub

}
```

```
@Override
public void onTestSkipped(ITestResult result) {
    // TODO Auto-generated method stub

}
```

```
@Override
public void onTestFailedButWithinSuccessPercentage(ITestResult result) {
    // TODO Auto-generated method stub

}
```

@Override

```
public void onStart(ITestContext context) {  
    // TODO Auto-generated method stub
```

```
}
```

@Override

```
public void onFinish(ITestContext context) {  
    // TODO Auto-generated method stub
```

```
}
```

```
}
```

## pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<groupId>com.simplilearn</groupId>
```

```
<artifactId>SwagLabs_TestNg_P2</artifactId>
```

```
<version>0.0.1-SNAPSHOT</version>
```

```
<packaging>jar</packaging>
```

```
<name>SwagLabs_TestNg_P2</name>
```

```
<url>http://maven.apache.org</url>
```

```
<properties>
```

```
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
```

```
</properties>
```

```
<dependencies>
```

```
  <dependency>
```

```
    <groupId>junit</groupId>
```

```
    <artifactId>junit</artifactId>
```

```
    <version>3.8.1</version>
```

```
    <scope>test</scope>
```

```
  </dependency>
```

```
  <dependency>
```

```
    <groupId>org.seleniumhq.selenium</groupId>
```

```
    <artifactId>selenium-java</artifactId>
```

```
        <version>4.21.0</version>
    </dependency>
    <dependency>
        <groupId>commons-io</groupId><!-- this is for screenshor -->
        <artifactId>commons-io</artifactId>
        <version>2.15.0</version>
    </dependency>
    <dependency>
        <groupId>org.testng</groupId>
        <artifactId>testng</artifactId>
        <version>6.14.3</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>com.simplilearn</groupId>
        <artifactId>SwagLabs_TestNg</artifactId>
        <version>0.0.1-SNAPSHOT</version>
    </dependency>
    <dependency>
        <groupId>com.simplilearn</groupId>
        <artifactId>Cucumber_Project</artifactId>
        <version>0.0.1-SNAPSHOT</version>
    </dependency>
</dependencies>
</project>
```

testng.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<suite name="Suite">
```

```
  <test thread-count="5" name="Test">
```

```
    <classes>
```

```
      <class name="tests.hometest"/>
```

```
      <class name="tests.logintest"/>
```

```
    </classes>
```

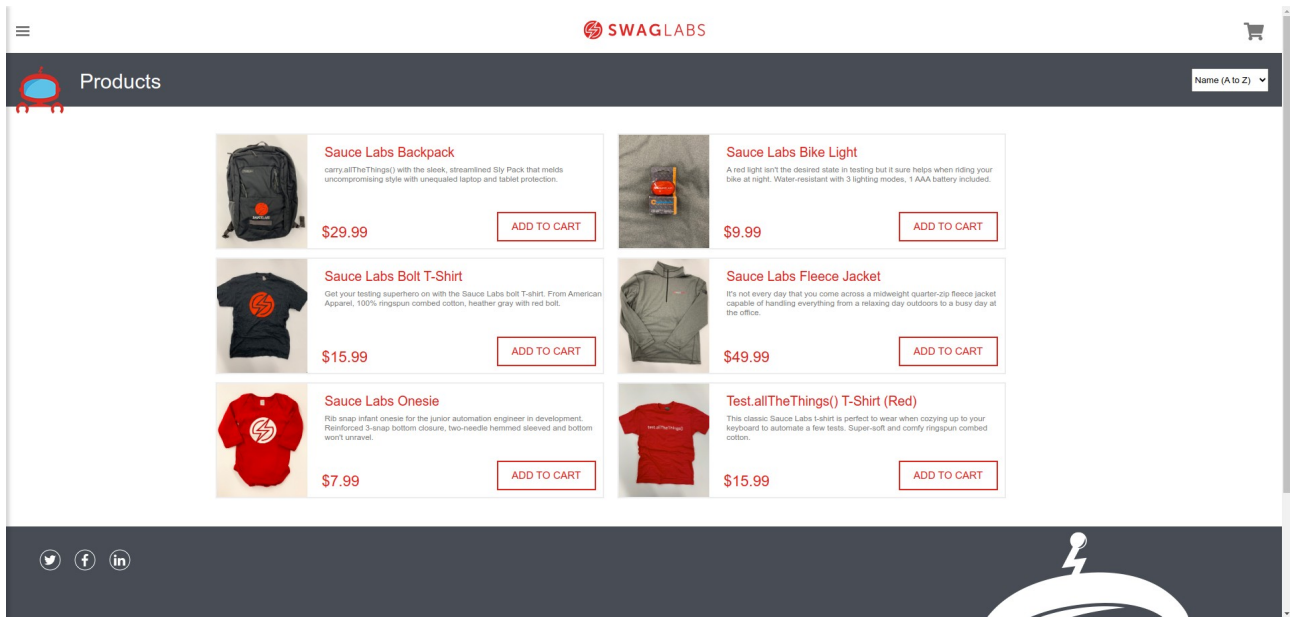
```
  </test> <!-- Test -->
```

```
</suite> <!-- Suite -->
```

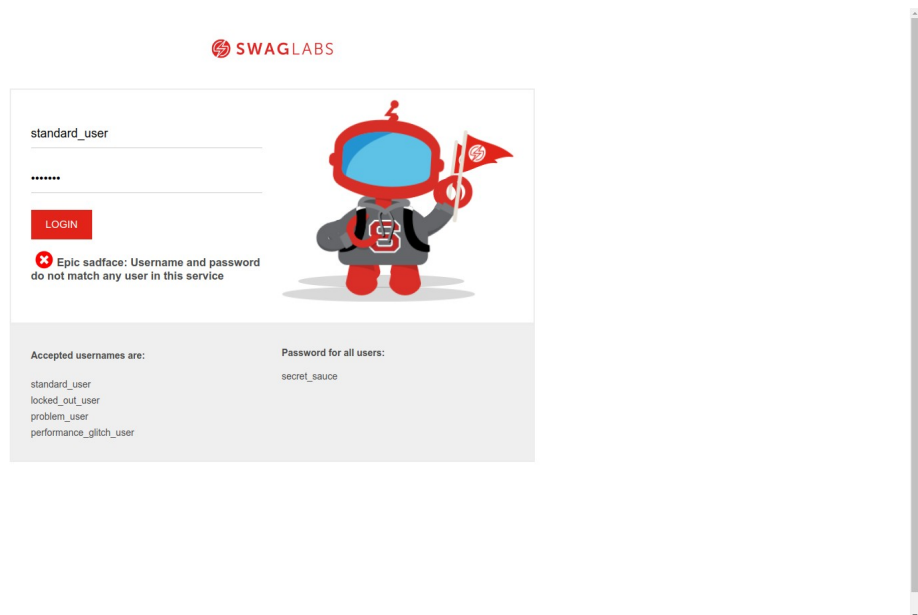
## Evidences: -

### Login Test


#### TC01\_LoginSuccessTest



#### TC02\_LoginFailureTest




## TC03\_LockedUserTest



locked\_out\_user

.....

LOGIN



**✖ Epic sadface:** Sorry, this user has been locked out.

Accepted usernames are:

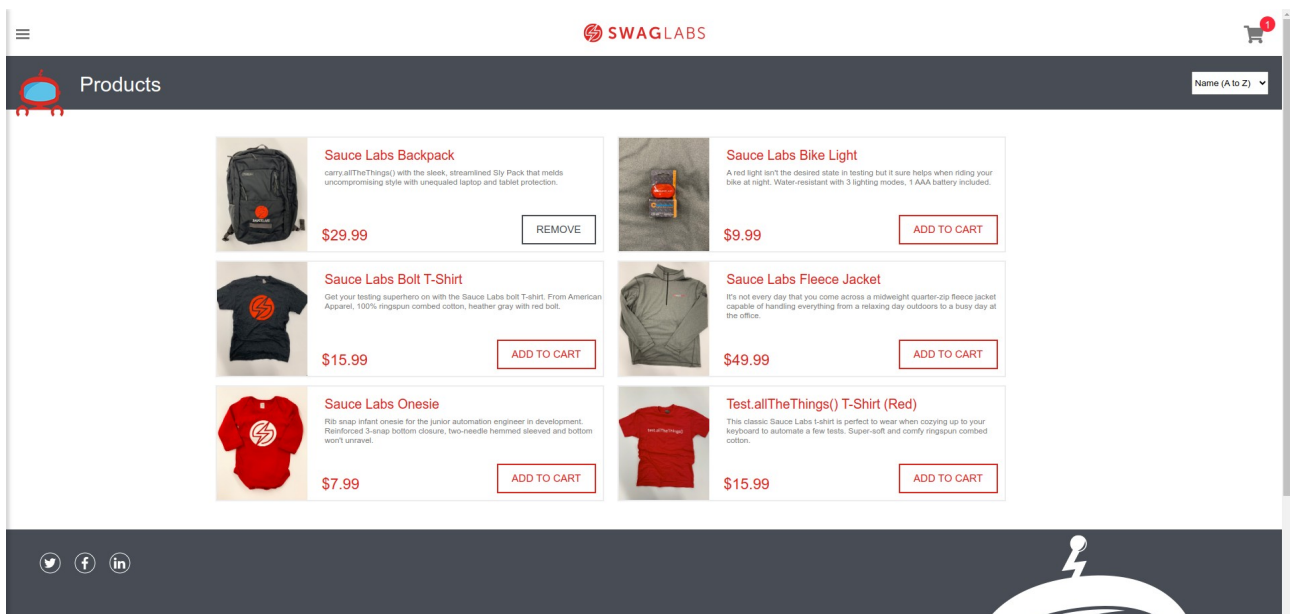
standard\_user  
locked\_out\_user  
problem\_user  
performance\_glitch\_user

Password for all users:

secret\_sauce

## HomeTest

## TC01\_AddToCartTest



**Git Hub - [https://github.com/sivalingaa/E-Commerce\\_SwagLab\\_Automation\\_Selenium\\_TestNG](https://github.com/sivalingaa/E-Commerce_SwagLab_Automation_Selenium_TestNG)**