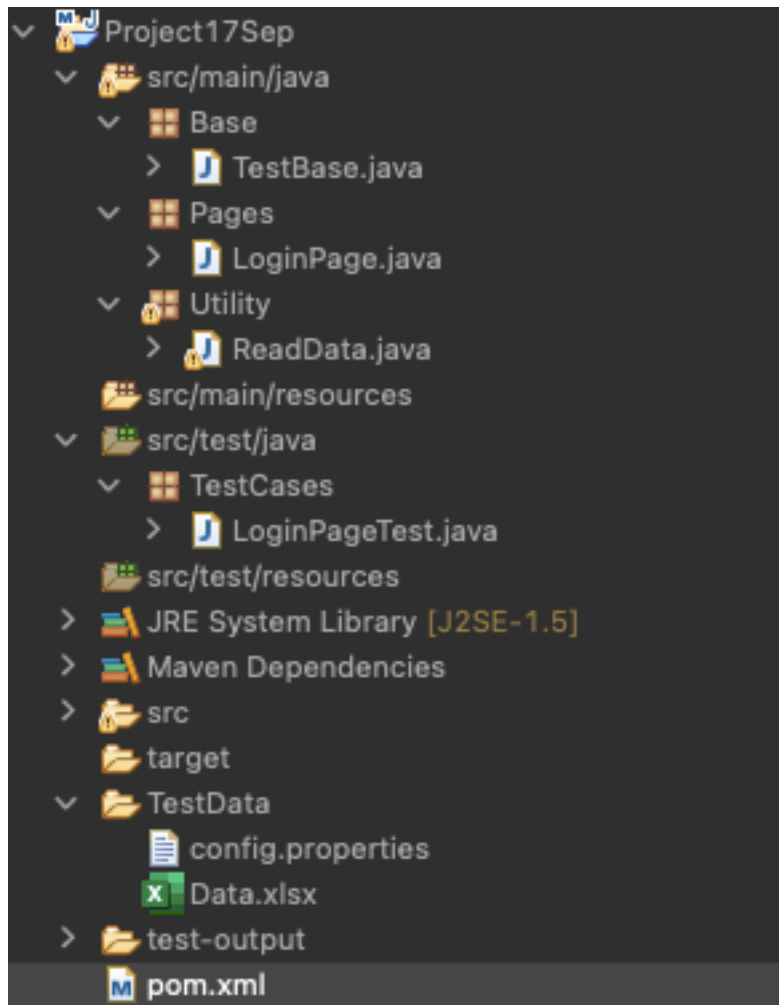


## Project Architecture



## Base Package

### TestBase Class

```
package Base;
```

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

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

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

```
public class TestBase {
```

```
    public static WebDriver driver; //Global and Public
```

```
    public void initialization()
```

```
    {
```

```
        WebDriverManager.chromedriver().setup();
```

```

        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get(ReadData.readPropertyFile("url"));
//        driver.get("https://www.saucedemo.com/");    }
    }

```

## Pages Package

### LoginPage class

```

package Pages;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

import Base.TestBase;
import Utility.ReadData;

public class LoginPage extends TestBase {

    //Object Repository
    @FindBy(xpath = "//div[@class='login_logo']") private WebElement loginLogo;
    @FindBy(xpath = "//div[@class='bot_column']") private WebElement botLogo;
    @FindBy(xpath = "//input[@id='user-name']") private WebElement
usernameTextbox;
    @FindBy(xpath = "//input[@id='password']") private WebElement
passwordTextbox;
    @FindBy(xpath = "//input[@id='login-button']") private WebElement loginBtn;
    @FindBy(xpath = "//span[@class='title']") private WebElement productLabel;

//    driver.findElement(By.xpath(""));

    //Constructor to initialize the elements of page
    public LoginPage()
    {
        PageFactory.initElements(driver, this);
    }

    public String verifyTitle() throws Exception
    {
        Thread.sleep(2000);
        return driver.getTitle();
    }

    public String loginToApp() throws Exception
    {
        usernameTextbox.sendKeys(ReadData.readPropertyFile("username"));
//        usernameTextbox.sendKeys(ReadData.readExcelFile(0, 0));
    }
}

```

```

        passwordTextbox.sendKeys(ReadData.readPropertyFile("password"));
        loginBtn.click();
        return driver.getCurrentUrl();
    }

    public String verifyLabelofInventory() throws Exception
    {
        loginToApp();
        return productLabel.getText();
    }
}

//static method - use only static
//non static method - No restriction

```

## Utility Package

### ReadData Class

```

package Utility;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.util.Properties;

import org.apache.poi.ss.usermodel.Sheet;
import org.apache.poi.ss.usermodel.WorkbookFactory;

public class ReadData {

    public static String readPropertyFile(String value) throws Exception
    {
        Properties p = new Properties();
        FileInputStream file = new FileInputStream("/Users/Zenith/eclipse-
workspace/Project17Sep/TestData/config.properties");
        p.load(file);
        return p.getProperty(value);
    }

    public static String readExcelFile(int row,int col) throws Exception
    {
        FileInputStream file = new FileInputStream("/Users/Zenith/eclipse-
workspace/Project17Sep/TestData/Data.xlsx");
        Sheet excel = WorkbookFactory.create(file).getSheet("Sheet1");
        String value = excel.getRow(row).getCell(col).getStringCellValue();
        return value;
    }
}

```

## Testcases Package

### LoginPageTest Class

```
package TestCases;

import org.testng.Assert;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;

import Base.TestBase;
import Pages.LoginPage;

public class LoginPageTest extends TestBase {

    LoginPage login;// = new LoginPage();

    @BeforeMethod
    public void setup() throws Exception
    {
        initialization();
        login = new LoginPage();
    }

    @Test (enabled = false)
    public void verifyTitleTest() throws Exception
    {
        String expTitle = "Swag Labs";
        String actTitle = login.verifyTitle();
        Assert.assertEquals(expTitle, actTitle);
    }

    @Test (enabled = false)
    public void verifyUrlTest1() throws Exception
    {
        String expTitle = "Swag Labs";
        String actTitle = login.verifyTitle();
        Assert.assertEquals(expTitle, actTitle);
    }

    @Test
    public void loginToAppTest() throws Exception
    {
        String expRes = "https://www.saucedemo.com/inventory.html";
        String actRes = login.loginToApp();
        Assert.assertEquals(expRes, actRes);
    }
}
```

```

@Test (enabled = false)
public void verifyLabelofInventoryTest() throws Exception
{
    String expRes = "PRODUCTS";
    String actRes = login.verifyLabelofInventory();
    Assert.assertEquals(expRes, actRes);
}

@AfterMethod
public void closeBrowser()
{
    driver.close();
}

```

## TestData Folder

### Pom.xml

```

url = https://www.saucedemo.com/
username = standard_user
password = secret_sauce
browser = chrome

```

```

}

```

### 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
https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>Project17Sep</groupId>
    <artifactId>Project17Sep</artifactId>
    <version>0.0.1-SNAPSHOT</version>

    <dependencies>

    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>4.0.0</version>
    </dependency>

    <dependency>
        <groupId>org.testng</groupId>

```

```
<artifactId>testng</artifactId>
<version>7.0.0</version>
<scope>test</scope>
</dependency>

<dependency>
  <groupId>io.github.bonigarcia</groupId>
  <artifactId>webdrivermanager</artifactId>
  <version>5.0.3</version>
</dependency>

<dependency>
  <groupId>org.apache.poi</groupId>
  <artifactId>poi</artifactId>
  <version>5.2.3</version>
</dependency>

<dependency>
  <groupId>org.apache.poi</groupId>
  <artifactId>poi-ooxml</artifactId>
  <version>5.2.3</version>
</dependency>

<dependency>
  <groupId>org.apache.poi</groupId>
  <artifactId>poi-ooxml-schemas</artifactId>
  <version>4.1.2</version>
</dependency>
</dependencies>

</project>
```