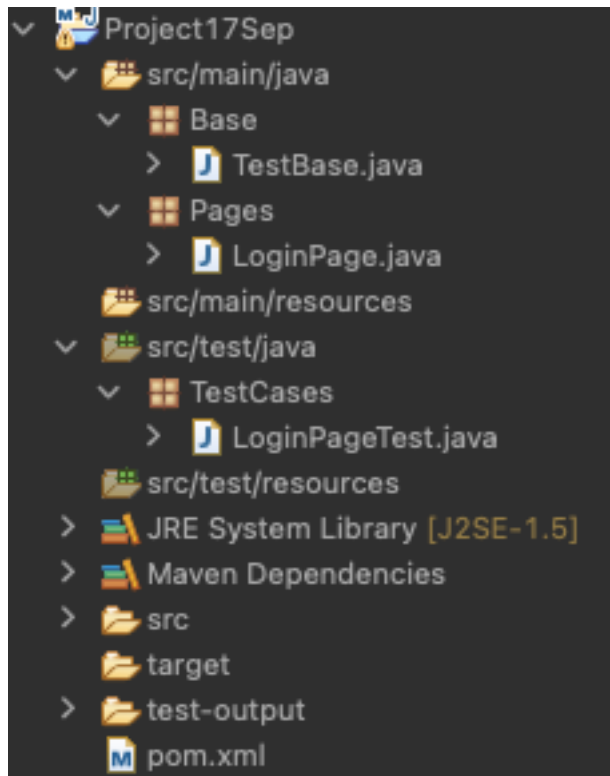# Project Architecture

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 initalization()
    {
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.saucedemo.com/");
    }
}
```

Pages Package

LoginPage class

package Pages;

import Base.TestBase;

public class LoginPage extends TestBase {

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

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

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()
       {
              initalization();
              login = new LoginPage();
       }

       @Test
       public void verifyTitleTest() throws Exception
       {

```java
                String expTitle = "Swag Labs";
                String actTitle = login.verifyTitle();
                Assert.assertEquals(expTitle, actTitle);
        }

        @Test
        public void verifyTitleTest1() throws Exception
        {
                String expTitle = "Swag Labs";
                String actTitle = login.verifyTitle();
                Assert.assertEquals(expTitle, actTitle);
        }

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

Pom.xml

```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>
```

```xml
        <version>5.0.3</version>
    </dependency>

    </dependencies>

</project>
```