Running the project using Maven:

First right click on the project and configure and convert the project to Maven project. It will generate 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>HybridKeywordDriven</groupId>

<artifactId>HybridKeywordDriven</artifactId>

<version>0.0.1-SNAPSHOT</version>

<build>

<sourceDirectory>src</sourceDirectory>

<resources>

<resource>

<directory>src</directory>

<excludes>

<exclude>\*\*/\*.java</exclude>

</excludes>

</resource>

</resources>

<plugins>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.7.0</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

For running the project with Maven, we need the following dependencies and plugins.

Dependencies: We need to have

1. Selenium Dependency
2. TestNG dependency
3. Apache poi-ooxml dependency
4. Collections framework dependency.

Plugins: We need to have

1. Maven Surefire Plugin xml

Dependencies:

Selenium Maven Dependency:

Go to google and search for “Selenium Maven Dependency” and go to the maven repository link and copy the dependency section. The following is the link.

<https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java>

<dependency>

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

<artifactId>selenium-java</artifactId>

<version>3.14.0</version>

</dependency>

TestNG Dependency:

Similarly get TestNG dependency. You can get it from

<https://mvnrepository.com/artifact/org.testng/testng>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

<scope>test</scope>

</dependency>

Apache poi-ooxml dependency:

<dependency>

<groupId>org.apache.poi</groupId>

<artifactId>poi-ooxml</artifactId>

<version>3.17</version>

</dependency>

Collections Framework Dependency:

<dependency>

<groupId>com.craterdog</groupId>

<artifactId>java-collection-framework</artifactId>

<version>3.15</version>

</dependency>

</dependencies>

Now under the dependencies section, update the xml with the above dependencies.

Plugin Information:

Go to google and search for “Maven Surefire Plugin xml” and you will get the following.

<build>

<pluginManagement>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.22.0</version>

</plugin>

</plugins>

</pluginManagement>

</build>

In addition to the above since we want to run the tests from TestNG, we need to have the configuration section as well in <plugin>

Add it to the pom.xml above dependencies.

<configuration>

<suiteXmlFiles>

<suiteXmlFile>testng.xml</suiteXmlFile>

</suiteXmlFiles>

</configuration>

So the plugins section becomes,

<build>

<pluginManagement>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.22.0</version>

<configuration>

<suiteXmlFiles>

<suiteXmlFile>testng.xml</suiteXmlFile>

</suiteXmlFiles>

</configuration>

</plugin>

</plugins>

</pluginManagement>

</build>

Enter the dependency information and the plugin information in the pom.xml and the pom.xml looks like this.

<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>HybridKeywordDriven</groupId>

<artifactId>HybridKeywordDriven</artifactId>

<version>0.0.1-SNAPSHOT</version>

<build>

<sourceDirectory>src</sourceDirectory>

<pluginManagement>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.22.0</version>

<configuration>

<suiteXmlFiles>

<suiteXmlFile>testng.xml</suiteXmlFile>

</suiteXmlFiles>

</configuration>

</plugin>

</plugins>

</pluginManagement>

</build>

<dependencies>

<dependency>

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

<artifactId>selenium-java</artifactId>

<version>3.14.0</version>

</dependency>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.apache.poi</groupId>

<artifactId>poi-ooxml</artifactId>

<version>3.17</version>

</dependency>

<dependency>

<groupId>com.craterdog</groupId>

<artifactId>java-collection-framework</artifactId>

<version>3.15</version>

</dependency>

</dependencies>

</project>

Now Open a command prompt and navigate the folder where we have the pom.xml and the command “mvn test” and it should start executing the test cases.

Note: IF you use mvn clean test, it is failing. If you use again mvn test it is not working. You have to change version of testng in the dependencies and then run again mvn test and it works.