JUnit 5 Dependencies

This lesson explains dependencies required to create and run Junit 5 Test cases in Maven.

Maven Dependencies

Now, that our Java Maven project is created, we have to make a couple of changes in the pom.xml file. Expand *junit5-maven-starter* project and open the pom.xml file in IDE. Apply the changes as provided in below XML:-

```
XML pom.xml
```

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchem
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.hubberspot</groupId>
  <artifactId>junit5-maven-starter</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <properties>
            <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
            <maven.compiler.source>1.8</maven.compiler.source>
            <maven.compiler.target>${maven.compiler.source}</maven.compiler.target>

            <junit.jupiter.version>5.3.2</junit.jupiter.version>
      </properties>

      <dependencies>

            <dependency>
                  <groupId>org.junit.jupiter</groupId>
                  <artifactId>junit-jupiter-api</artifactId>
                  <version>${junit.jupiter.version}</version>
                  <scope>test</scope>
            </dependency>

            <dependency>
                  <groupId>org.junit.jupiter</groupId>
                  <artifactId>junit-jupiter-engine</artifactId>
                  <version>${junit.jupiter.version}</version>
                  <scope>test</scope>
            </dependency>
```

```
        </dependencies>

        <build>
            <plugins>
                <!-- JUnit 5 requires Surefire version 2.22.1 or higher -->
                <plugin>
                    <artifactId>maven-surefire-plugin</artifactId>
                    <version>2.22.1</version>
                </plugin>
            </plugins>
        </build>

</project>
```

In order to kick start Junit 5 in Maven, following three dependencies/plugins are required -

1. junit-jupiter-api - This dependency is required because it defines the API that we need to write Junit 5 tests.

2. junit-jupiter-engine - This dependency is required because it is the implementation of the junit-platform-engine API for JUnit 5. It is responsible for the discovery and execution of Junit 5 tests.

3. maven-surefire-plugin - This plugin is required because it is needed for tests to be executed during the maven build.

It also requires **Java 8** or higher versions.

There are few more dependencies required to run JUnit 4 test cases along with Junit 5, also writing parameterized tests etc. We will discuss more on this in the respective lesson.