

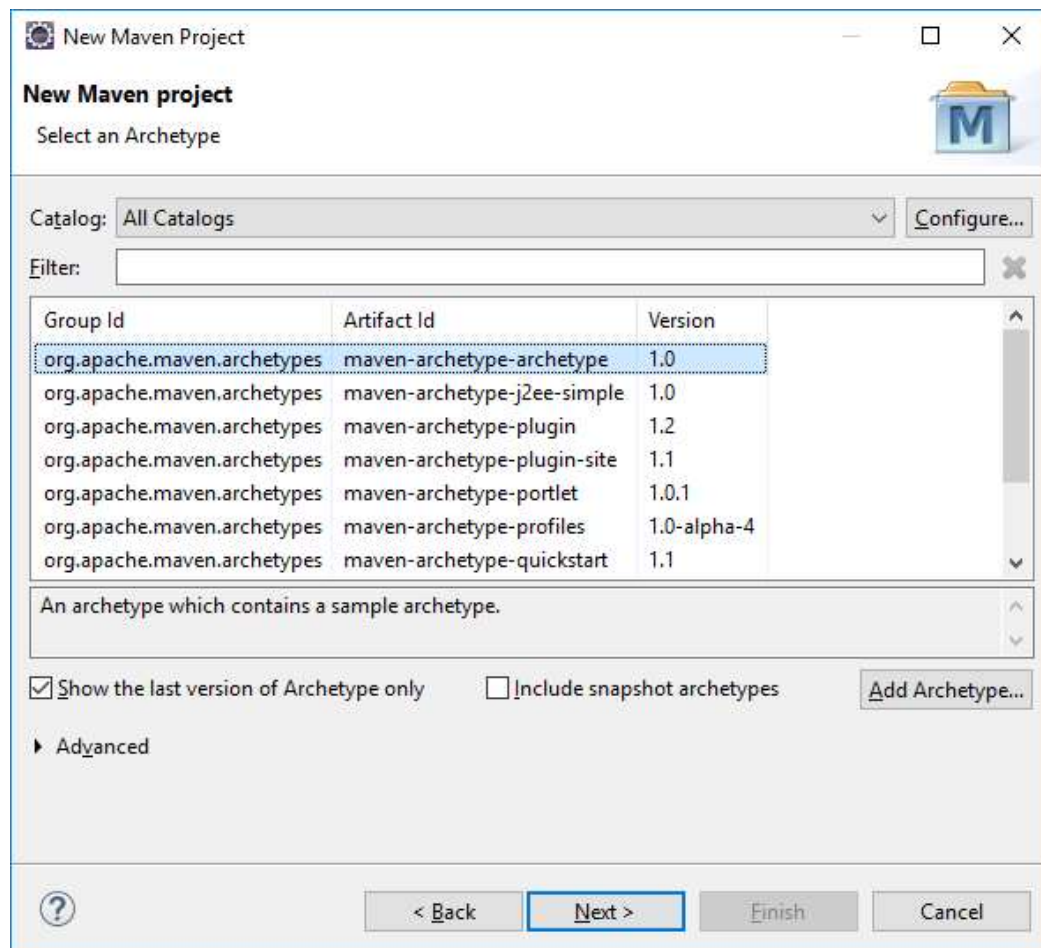
How to create Java web project with Maven in Eclipse

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Creating a Java web project in Eclipse with Maven support sounds simple as Eclipse has great support for Maven, but actually it doesn't. You can create a Maven project for Java webapp by clicking menu **File > New > Maven Project** (you need to switch to the Java EE perspective to see this menu).

In the *New Maven Project* dialog appears, click Next. Then you see a list of built-in archetype (type of Maven project) to choose from, as shown below:

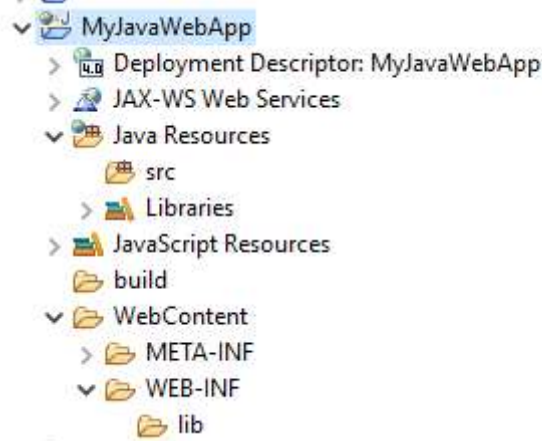


I tested all of those archetypes but none can generate a properly configured basic Java web project. So here's the proper way to create a Java web project in Eclipse with Maven support:

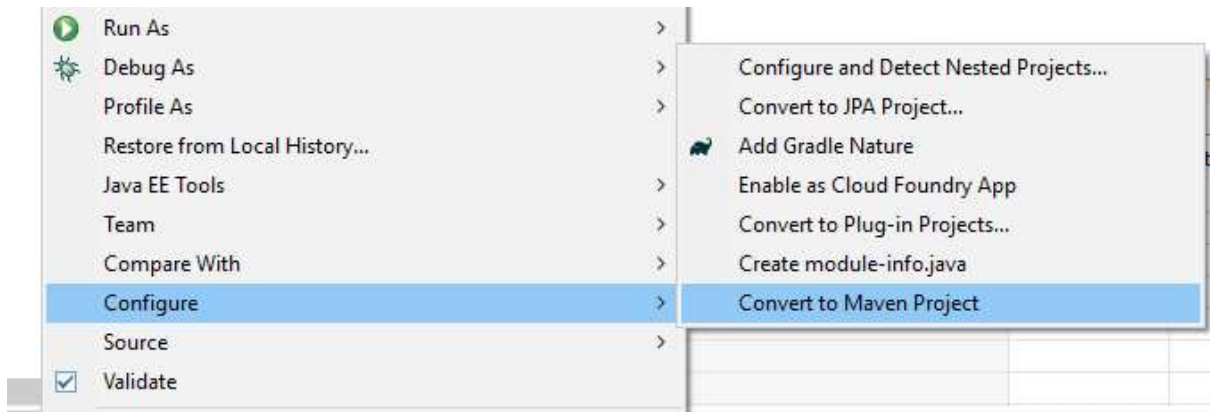
First, you create a new project as usual, click **File > New > Dynamic Web Project**:



Then follow the wizards to create a Java dynamic web project normally. The newly created project would look like this:



Now, right click on the project name and click **Configure > Convert to Maven Project**:



Then in the *Create new POM* dialog, enter essential information for a Maven project like Group Id, artifact Id, version, name and description:

Create new POM

Maven POM

This wizard creates a new POM (pom.xml) descriptor for Maven.

Project:

/MyJavaWebApp

Artifact

Group Id:

net.codejava

Artifact Id:

MyJavaWebApp

Version:

0.0.1-SNAPSHOT

Packaging:

war

Name:

Description:

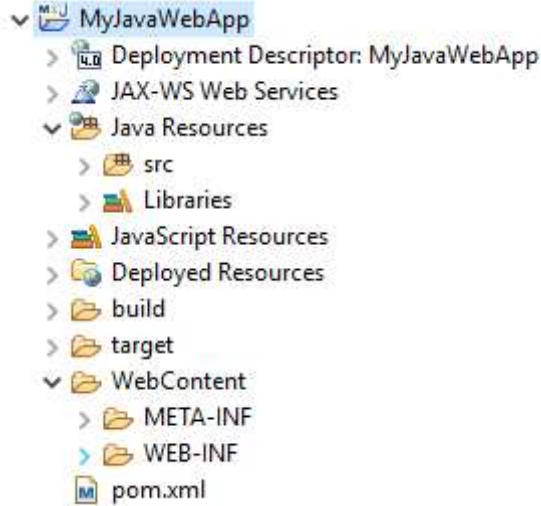
?

Finish

Cancel

Note that the Packaging type is war by default because this is a Java web project which will be packaged into a WAR file to deploy.

Then click Finish. You will the project's icon is updated with "M" letter – indicating it is a Maven project:



You also see the `pom.xml` file is generated in the project's root directory. It is the Project Object Model configuration file used by Maven.

Now edit the `pom.xml` file to specify the dependency for Java Servlet API:

```
1 <dependencies>
2   <dependency>
3     <groupId>javax.servlet</groupId>
4     <artifactId>javax.servlet-api</artifactId>
5     <version>3.0.1</version>
6     <scope>provided</scope>
7   </dependency>
8 </dependencies>
```

This dependency is needed to write code that uses Servlet API, e.g. servlet classes. The whole content of the `pom.xml` file would look like this:

```
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
2   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4     http://maven.apache.org/xsd/maven-4.0.0.xsd">
5   <modelVersion>4.0.0</modelVersion>
6   <groupId>net.codejava</groupId>
7   <artifactId>MyJavaWebApp</artifactId>
8   <version>0.0.1-SNAPSHOT</version>
9   <packaging>war</packaging>
10  <build>
11    <sourceDirectory>src</sourceDirectory>
12    <plugins>
13      <plugin>
14        <artifactId>maven-compiler-plugin</artifactId>
15        <version>3.8.0</version>
16        <configuration>
17          <source>1.8</source>
18          <target>1.8</target>
19        </configuration>
20      </plugin>
21      <plugin>
22        <artifactId>maven-war-plugin</artifactId>
23        <version>3.2.1</version>
24        <configuration>
25          <warSourceDirectory>WebContent</warSourceDirectory>
26        </configuration>
27      </plugin>
28    </plugins>
29  </build>
30  <dependencies>
31    <dependency>
32      <groupId>javax.servlet</groupId>
33      <artifactId>javax.servlet-api</artifactId>
34      <version>3.0.1</version>
35      <scope>provided</scope>
36    </dependency>
37  </dependencies>
38 </project>
```

Now you have a Java dynamic web project with Maven support. Happy coding!