



Maven - Web Application







Previous Page

Next Page 🕣

This tutorial will teach you how to manage a web based project using version control system Maven. Here you will learn how to create/build/deploy and run a web application:

Create Web Application

To create a simple java web application, we'll use maven-archetype-webapp plugin. So let's open command console, go the C:\MVN directory and execute the following **mvn** command.

```
C:\MVN>mvn archetype:generate
-DgroupId=com.companyname.automobile
-DartifactId=trucks
-DarchetypeArtifactId=maven-archetype-webapp
-DinteractiveMode=false
```

Maven will start processing and will create the complete web based java application project structure.

```
[INFO] Scanning for projects...
[INFO]
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----
[INFO] >>> maven-archetype-plugin:2.4:generate (default-cli) > generate-sources
@ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:2.4:generate (default-cli) < generate-sources
@ standalone-pom <<<
[INFO]
```

```
[INFO] --- maven-archetype-plugin:2.4:generate (default-cli) @ standalone-pom --
[INFO] Generating project in Batch mode
[WARNING] No archetype found in remote catalog. Defaulting to internal catalog
[INFO] ------
[INFO] Using following parameters for creating project from Old (1.x) Archetype:
maven-archetype-webapp:1.0
[INFO] -----
[INFO] Parameter: groupId, Value: com.companyname.automobile
[INFO] Parameter: packageName, Value: com.companyname.automobile
[INFO] Parameter: package, Value: com.companyname.automobile
[INFO] Parameter: artifactId, Value: trucks
[INFO] Parameter: basedir, Value: C:\MVN
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\MVN\trucks
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 19.016 s
[INFO] Finished at: 2015-09-27T17:47:56+05:30
[INFO] Final Memory: 16M/247M
```

Now go to C:/MVN directory. You'll see a java application project created named trucks (as specified in artifactId).



Maven uses a standard directory layout. Using above example, we can understand following key concepts

Folder Structure	Description
trucks	contains src folder and pom.xml
src/main/webapp	contains index.jsp and WEB-INF folder.
src/main/webapp/WEB-	contains web.xml

INF	
src/main/resources	it contains images/properties files .

POM.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-ins</pre>
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd"
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.companyname.automobile
  <artifactId>trucks</artifactId>
  <packaging>war</packaging>
  <version>1.0-SNAPSHOT
  <name>trucks Maven Webapp</name>
  <url>http://maven.apache.org</url>
  <dependencies>
     <dependency>
        <groupId>junit
        <artifactId>junit</artifactId>
        <version>3.8.1
        <scope>test</scope>
      </dependency>
  </dependencies>
  <build>
     <finalName>trucks</finalName>
  </build>
</project>
```

If you see, Maven also created a sample JSP Source file

Open C:\ > MVN > trucks > src > main > webapp > folder, you will see index.jsp.

Build Web Application

Let's open command console, go the C:\MVN\trucks directory and execute the following **mvn** command.

```
C:\MVN\trucks>mvn clean package
```

Maven will start building the project.

```
[INFO] Scanning for projects...
[INFO]
[INFO] Building trucks Maven Webapp 1.0-SNAPSHOT
[INFO] -----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ trucks ---
[INFO] Deleting C:\MVN\trucks\target
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ trucks ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources,
i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ trucks ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ tr
ucks ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources,
i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\MVN\trucks\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ trucks
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ trucks ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ trucks ---
[INFO] Packaging webapp
[INFO] Assembling webapp [trucks] in [C:\MVN\trucks\target\trucks]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\MVN\trucks\src\main\webapp]
[INFO] Webapp assembled in [93 msecs]
[INFO] Building war: C:\MVN\trucks\target\trucks.war
[INFO] WEB-INF\web.xml already added, skipping
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.766 s
[INFO] Finished at: 2015-09-27T17:53:05+05:30
[INFO] Final Memory: 11M/247M
[INFO] -----
```

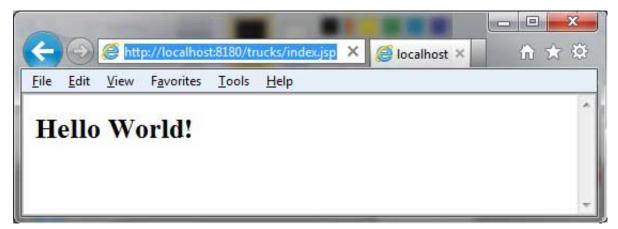
Deploy Web Application

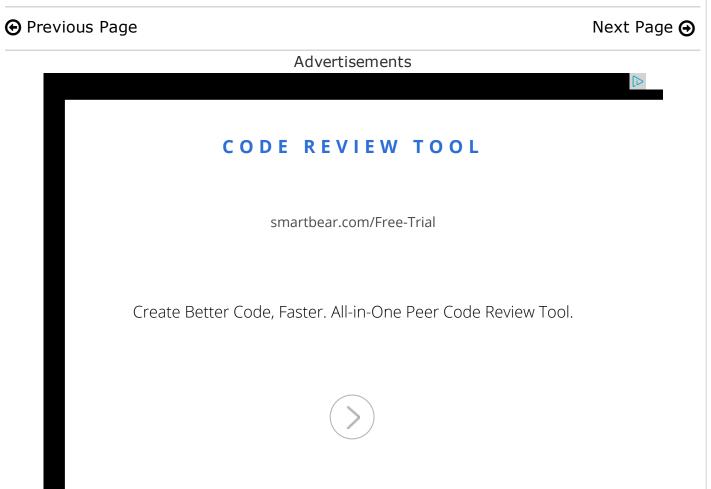
Now copy the **trucks.war** created in **C:\ > MVN > trucks > target >** folder to your webserver webapp directory and restart the webserver.

Test Web Application

Run the web-application using URL : http://<server-name>:<port-number>/trucks/index.jsp

Verify the output.







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