

MAVEN ASSIGNMENT

- "mvn install" on the "maven-session" project.

```
F:\mave\maven-session>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.accolite.au:maven-session >-----
[INFO] Building maven-session 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\maven-session\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\maven-session\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ maven-session ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.accolite.au.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.143 s - in com.accolite.au.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ maven-session ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ maven-session ---
[INFO] Installing F:\mave\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\Nandhini\.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing F:\mave\maven-session\pom.xml to C:\Users\Nandhini\.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
```

- Create a web-app using the archetype plugin

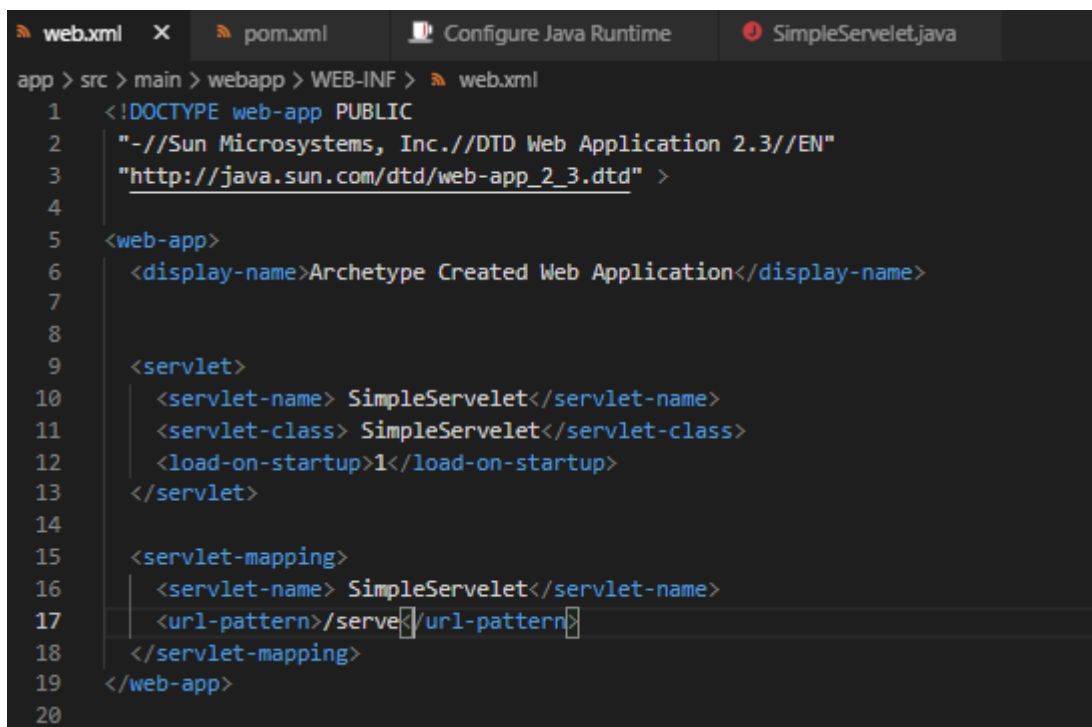
```
F:\mave\sample-web>mvn archetype:generate -DgroupId=com.accolite.au -DartifactId=app -DarchetypeArtifactId=maven-archetype-webapp
[INFO] Scanning for projects...
[INFO]
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Interactive mode
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.pom (533 B at 935 B/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/2/maven-archetype-bundles-2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/2/maven-archetype-bundles-2.pom (1.5 kB at 3.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype-parent/1/maven-archetype-parent-1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetype/maven-archetype-parent/1/maven-archetype-parent-1.pom (1.3 kB at 2.5 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom (10.0 kB at 23 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.0/maven-archetype-webapp-1.0.jar (3.9 kB at 9.6 kB/s)
```

```

[INFO] Using property: groupId = com.accolite.au
[INFO] Using property: artifactId = app
Define value for property 'version' 1.0-SNAPSHOT: :
[INFO] Using property: package = com.accolite.au
Confirm properties configuration:
groupId: com.accolite.au
artifactId: app
version: 1.0-SNAPSHOT
package: com.accolite.au
Y: :
[INFO] -----
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-webapp:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: F:\mave\sample-web
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: groupId, Value: com.accolite.au
[INFO] Parameter: artifactId, Value: app
[INFO] Parameter: packageName, Value: com.accolite.au
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: F:\mave\sample-web\app
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 16.693 s
[INFO] Finished at: 2021-01-24T19:02:51+05:30
[INFO] -----
F:\mave\sample-web>

```

- add a sample servlet



```

web.xml X pom.xml Configure Java Runtime SimpleServlet.java
app > src > main > webapp > WEB-INF > web.xml
1  <!DOCTYPE web-app PUBLIC
2  "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3  "http://java.sun.com/dtd/web-app_2_3.dtd" >
4
5  <web-app>
6      <display-name>Archetype Created Web Application</display-name>
7
8
9      <servlet>
10         <servlet-name> SimpleServlet</servlet-name>
11         <servlet-class> SimpleServlet</servlet-class>
12         <load-on-startup>1</load-on-startup>
13     </servlet>
14
15     <servlet-mapping>
16         <servlet-name> SimpleServlet</servlet-name>
17         <url-pattern>/serve</url-pattern>
18     </servlet-mapping>
19 </web-app>
20

```

- Use tomcat maven plugin and run the web-app

```
F:\mave\sample-web\app>mvn tomcat7:run
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for com.accolite.au:app:war:1.0-SNAPSHOT
[WARNING] 'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration of plugin org.apache.maven.plugins:maven-war-plugi
n @ line 63, column 17
[WARNING] 'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration of plugin org.apache.maven.plugins:maven-compiler-
plugin @ line 71, column 17
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING] For this reason, future Maven versions might no longer support building such malformed projects.
[WARNING]
[INFO]
[INFO] -----< com.accolite.au:app >-----
[INFO] Building app Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ app >>>
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\mave\sample-web\app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ app <<<
[INFO]
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ app ---
[INFO] Running war on http://localhost:9000/maven-sess
[INFO] Using existing Tomcat server configuration at F:\mave\sample-web\app\target\tomcat
[INFO] create webapp with contextPath: /maven-sess
Jan 24, 2021 9:12:28 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9000"]
Jan 24, 2021 9:12:28 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 24, 2021 9:12:28 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Servlet SimpleServlet has started
Jan 24, 2021 9:12:31 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9000"]
```

← → ↻ ⓘ localhost:9000/maven-sess/

Hello World!