

Maven Assignment

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1. Performed "mvn install" on the "maven-session" project which was created during the session.

```
C:\Users\rajvi\Desktop\Accolite\Day9\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 C:\Users\rajvi\Desktop\Accolite\Day9\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 C:\Users\rajvi\Desktop\Accolite\Day9\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: 0.035 s - in com.accolite.au.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[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 C:\Users\rajvi\Desktop\Accolite\Day9\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\rajvi.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing C:\Users\rajvi\Desktop\Accolite\Day9\maven-session\pom.xml to C:\Users\rajvi.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 3.653 s
[INFO] Finished at: 2021-01-22T21:27:14+05:30
[INFO] -----
```

2. Create a web-app using the archetype plugin

```
C:\Users\rajvi\Desktop\Accolite\Day9>mvn archetype:generate -DgroupId=com.accolite.au -DartifactId=webApp -DarchetypeGroupId=org.apache.maven.archetypes -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
[INFO] Archetype [org.apache.maven.archetypes:maven-archetype-webapp:1.4] found in catalog remote
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.4/maven-archetype-webapp-1.4.pom (1.4 kB at 4.4 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.4/maven-archetype-webapp-1.4.pom (1.4 kB at 4.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.4/maven-archetype-webapp-1.4.jar (6.8 kB at 22 kB/s)
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-webapp/1.4/maven-archetype-webapp-1.4.jar (6.8 kB at 22 kB/s)
[INFO] Using property: groupId = com.accolite.au
[INFO] Using property: artifactId = webApp
[INFO] Define value for property 'version' 1.0-SNAPSHOT: :
[INFO] Using property: package = com.accolite.au
[INFO] Confirm properties configuration:
[INFO] groupId: com.accolite.au
[INFO] artifactId: webApp
[INFO] version: 1.0-SNAPSHOT
[INFO] package: com.accolite.au
[INFO] Y: :
[INFO]
[INFO] Using following parameters for creating project from Archetype: maven-archetype-webapp:1.4
[INFO]
[INFO] Parameter: groupId, Value: com.accolite.au
[INFO] Parameter: artifactId, Value: webApp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: packageInPathFormat, Value: com/accolite/au
[INFO] Parameter: package, Value: com.accolite.au
[INFO] Parameter: groupId, Value: com.accolite.au
[INFO] Parameter: artifactId, Value: webApp
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Archetype in dir: C:\Users\rajvi\Desktop\Accolite\Day9\webApp
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 12.323 s
[INFO] Finished at: 2021-01-22T21:40:45+05:30
[INFO] -----
```

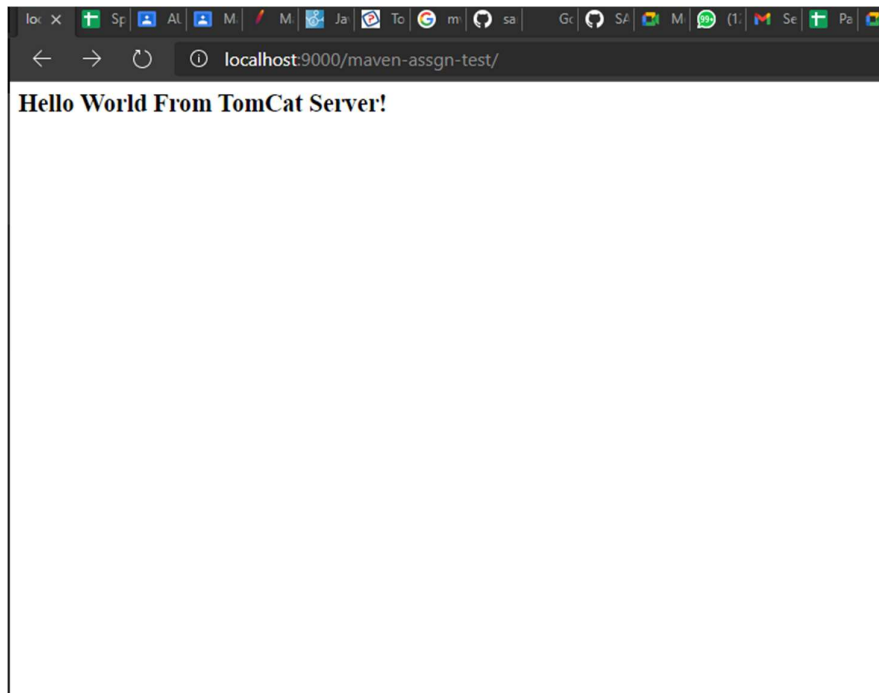
3. In the above created web-app add a sample servlet

```
pom.xml (webApp) x DemoServlet.java x index.jsp x web.xml x
1 import java.io.IOException;
2 import javax.servlet.ServletException;
3 import javax.servlet.http.HttpServlet;
4 import javax.servlet.http.HttpServletRequest;
5 import javax.servlet.http.HttpServletResponse;
6
7 public class DemoServlet extends HttpServlet {
8     private static final long serialVersionUID = -4751096228274971485L;
9
10    @Override
11    protected void doGet(HttpServletRequest request, HttpServletResponse response)
12        throws ServletException, IOException {
13        response.setContentType("text/html");
14        response.getWriter().println("<h1> Hello World from Servlet! <h1>");
15    }
16
17    @Override
18    public void init() throws ServletException {
19        System.out.println("Servlet " + this.getServletName() + " has started");
20    }
21
22    @Override
23    public void destroy() {
24        System.out.println("Servlet " + this.getServletName() + " has stopped");
25    }
26 }
```

4. Use tomcat maven plugin and run the web-app:
a. mvn tomcat7:run

```
C:\Users\rajvi\Desktop\Accolite\Day9\WebApp>mvn tomcat7:run
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for com.accolite.au:webApp: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
[WARNING] 'build.pluginManagement.plugins.plugin.(groupId:artifactId)' must be unique but found duplicate declaration of plugin org.apache.maven.plugins:maven-com
[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] -----< com.accolite.au:webApp >-----
[INFO] Building webApp Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ webApp >>>
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ webApp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\rajvi\Desktop\Accolite\Day9\WebApp\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ webApp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\rajvi\Desktop\Accolite\Day9\WebApp\target\classes
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ webApp <<<
[INFO]
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ webApp ---
[INFO] Running war on http://localhost:9000/maven-assign-test
[INFO] Using existing Tomcat server configuration at C:\Users\rajvi\Desktop\Accolite\Day9\WebApp\target\tomcat
[INFO] create webapp with contextPath: /maven-assign-test
Jan 22, 2021 10:14:47 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9000"]
Jan 22, 2021 10:14:47 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 22, 2021 10:14:47 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Jan 22, 2021 10:14:48 PM org.apache.catalina.util.SessionIdGenerator createSecureRandom
INFO: Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [109] milliseconds.
Servlet DemoServlet has started
Jan 22, 2021 10:14:48 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9000"]
```

B. localhost:9000/maven-assgn-test/



C. localhost:9000/maven-assgn-test/demo

