MAVEN Basics

Done by Ravi Theja Kolluru

Email ID: ravi.kolluru@accolitedigital.com

Assignment

- 1. Perform "mvn install" on the "maven-session" project which was created during the session and share the screen-shots.
- 2. Create a web-app using the archetype plugin (https://maven.apache.org/guides/introduction/introduction-to-archetypes.html).
- 3. In the above created web-app add a sample servlet (https://javatutorial.net/java-servlet-example)
- 4. Use tomcat maven plugin and run the web-app (https://howtodoinjava.com/maven/tomcat-maven-plugin-example/)

ANSWER

Build using mvn install

```
D:\AccoliteSAU\maven-session>mvn install
[INFO] Scanning for projects...
 INFO]
 [INFO] Building maven-session 1.0-SNAPSHOT
 INFO] -----[ jar ]-----[ jar ]------
 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 D:\AccoliteSAU\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 D:\AccoliteSAU\maven-session\src\test\resources
 INFO] --- maven-compiler-plugin:3.8.0:testCompile (de
[INFO] Nothing to compile - all classes are up to date
        --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ maven-session ---
 [INFO]
 INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ maven-session ---
 INFO]
 INFO]
 INFO]
 INFO] TESTS
INFO] ------INFO] Running com.accolite.au.AppTest
 INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.099 s - in com.accolite.au.AppTest
 INFO]
INFO] Results:
 INF01
 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] --- maven-install-plugin:2.5.2:install (default-install) @ maven-session-1.0-SNAPSHOT.jam
[INFO] Installing D:\AccoliteSAU\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\Ravi Theja Kol
luru\.m2\repository\com\accolite\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing D:\AccoliteSAU\maven-session\pom.xml to C:\Users\Ravi Theja Kolluru\.m2\repository\com\accoli
te\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
INFO] Total time: 4.304 s
INFO] Finished at: 2021-01-23T08:47:07+05:30
D:\AccoliteSAU\maven-session>
```

Execution of Java Program

Method -1

Method -2

```
D:\AccoliteSAU\maven-session>java -cp target\maven-session-1.0-SNAPSHOT.jar com.accolite.au.App
Hello World!
```

Create a web-app using the archetype plugin

```
Name Type Size

WEB-INF File folder

index.jsp JSP File 1 KB
```

```
<!-- maven plugins -->
<plugin>
   <groupId>org.apache.maven.plugins
   <artifactId>maven-war-plugin</artifactId>
   <version>2.3</version>
   <configuration>
       <warSourceDirectory>src/main/webapp</warSourceDirectory>
   </configuration>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>3.1</version>
    <configuration>
       <source>1.8</source>
       <target>1.8</target>
   </configuration>
/plugin>
```

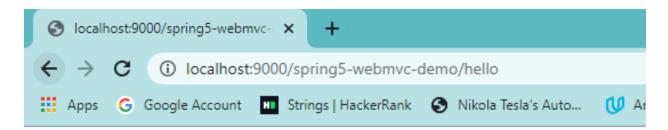
Adding Sample Servlet to web-app

```
🔎 ServletSample.java 🔀
  1 package com.accolite.au;
  4⊖ import java.io.IOException;
  5 import javax.servlet.ServletException;
  6 import javax.servlet.http.HttpServlet;
  7 import javax.servlet.http.HttpServletRequest;
  8 import javax.servlet.http.HttpServletResponse;
11 public class ServletSample extends HttpServlet {
 12
13⊝
         @Override
        protected void doGet(HttpServletRequest reqest, HttpServletResponse response)
<del>-</del>14
 15
                throws ServletException, IOException {
 16
           response.getWriter().println("This is a Servlet Example - Assignment");
 17
 18
       @Override
 19⊖
       public void init() throws ServletException {
△20
 21
             System.out.println("Servlet " + this.getServletName() + " has started");
 22
 23⊝
         @Override
         public void destroy() {
△24
 25
            System.out.println("Servlet " + this.getServletName() + " has stopped");
 26
 27
 28
 29
```

Running web-app on TomCat plugin



Hello World!



This is a Servlet Example - Assignment
