

Spring AU '21 – Maven – Afternoon Session

Name: Sheik Abudhahir K

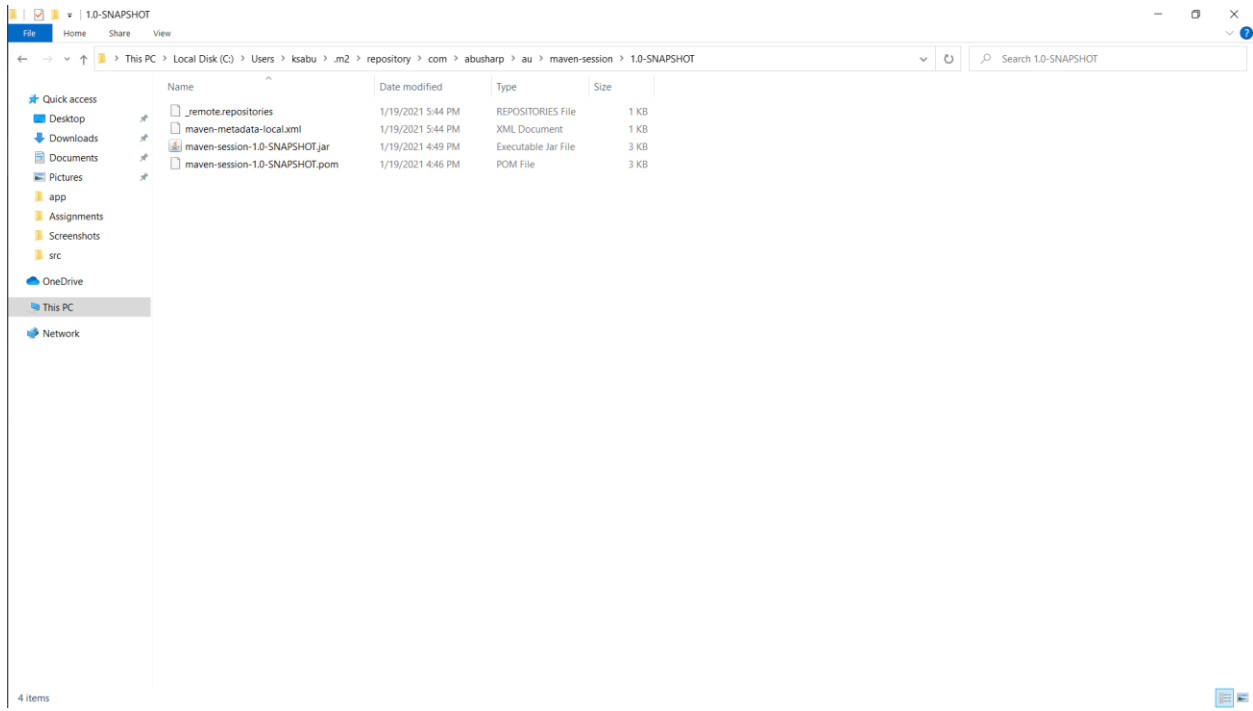
Date: 19/01/2021

1.Perform "mvn install" on the "maven-session" project which was created during the session and share the screen-shots.

```
C:\Windows\System32\cmd.exe
E:\Vocolite AU\Day 9\Afternoon\maven-session>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.abusharp.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 E:\Vocolite AU\Day 9\Afternoon\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 E:\Vocolite AU\Day 9\Afternoon\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.abusharp.au.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.058 s - in com.abusharp.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] Downloading from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/junit/junit/3.8.1/junit-3.8.1.pom (998 B at 653 B/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.pom (11 kB at 22 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/22/commons-parent-22.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/22/commons-parent-22.pom (42 kB at 57 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.pom (4.0 kB at 8.4 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.pom (3.1 kB at 6.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (3.1 kB at 6.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-utils/0.4/maven-shared-utils-0.4.jar (155 kB at 34 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar
[INFO] Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.jar (233 kB at 48 kB/s)
[INFO] Installing E:\Vocolite AU\Day 9\Afternoon\maven-session\target\maven-session-1.0-SNAPSHOT.jar to C:\Users\ksabu\.m2\repository\com\abusharp\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.jar
[INFO] Installing E:\Vocolite AU\Day 9\Afternoon\maven-session\pom.xml to C:\Users\ksabu\.m2\repository\com\abusharp\au\maven-session\1.0-SNAPSHOT\maven-session-1.0-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 14.783 s
[INFO] Finished at: 2021-01-19T17:44:04+05:30
[INFO] -----
E:\Vocolite AU\Day 9\Afternoon\maven-session>
```

Mvn install build success

.m2 folder – maven session project - snapshot



2.Create a web-app using the archetype plugin

```
C:\Windows\System32\cmd.exe
Terminate batch job (Y/N)? y

E:\Accolite AU\Day 9\afternoon>mvn archetype:generate -DgroupId=com.sharp.abu -DartifactId=web-app-demo -DarchetypeArtifactId=maven-archetype-webapp -DinteractiveMode=false
[INFO] Scanning for projects...
[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 Batch mode
[INFO] Downloading 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 956 B/s)
[INFO] Downloading 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 956 B/s)
[INFO] Downloading 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 2.9 kB/s)
[INFO] Downloading 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 2.9 kB/s)
[INFO] Downloading 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 3.1 kB/s)
[INFO] Downloading 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 3.1 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom (10.0 kB at 24 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/4/maven-parent-4.pom (10.0 kB at 24 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (3.4 kB at 5.7 kB/s)
[INFO] Downloading from central: https://repo.maven.apache.org/maven2/org/apache/apache/3/apache-3.pom (3.4 kB at 5.7 kB/s)
[INFO] Downloading 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 9.3 kB/s)
[INFO] Downloading 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 9.3 kB/s)
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-webapp:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: E:\Accolite AU\Day 9\afternoon
[INFO] Parameter: package, Value: com.sharp.abu
[INFO] Parameter: groupId, Value: com.sharp.abu
[INFO] Parameter: artifactId, Value: web-app-demo
[INFO] Parameter: packageName, Value: com.sharp.abu
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: E:\Accolite AU\Day 9\afternoon\web-app-demo
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:42 min
[INFO] Finished at: 2021-01-19T17:54:43+05:30
[INFO] -----

E:\Accolite AU\Day 9\afternoon>
```

Web app created successful

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

```
Employee.java EmployeeDemo.java HSessions.java PersonalInfo.java Address.java web-app-demo/pom.xml index.jsp web.xml
1
2 import java.io.IOException;
3 import javax.servlet.ServletException;
4 import javax.servlet.http.HttpServlet;
5 import javax.servlet.http.HttpServletRequest;
6 import javax.servlet.http.HttpServletResponse;
7 public class ServletClass extends HttpServlet {
8     private static final long serialVersionUID = -4751096228274971485L;
9     @Override
10    protected void doGet(HttpServletRequest request, HttpServletResponse response)
11        throws ServletException, IOException {
12        response.getWriter().println("Hello World! from servlet page");
13    }
14    @Override
15    public void init() throws ServletException {
16        System.out.println("Servlet " + this.getServletName() + " has started");
17    }
18    @Override
19    public void destroy() {
20        System.out.println("Servlet " + this.getServletName() + " has stopped");
21    }
22 }
```

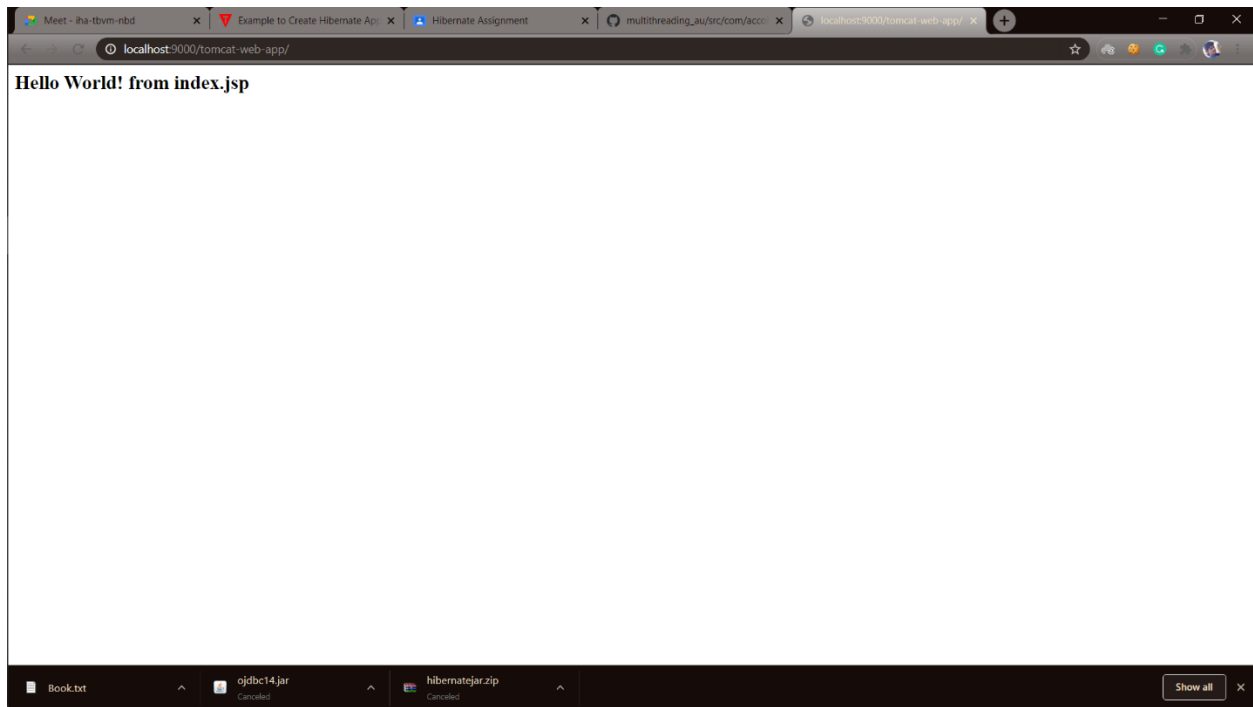
4. Use tomcat maven plugin and run the web-app – plugin added and started the web app in tomcat

```
E:\Accolite AU\Day 9\afternoon\web-app-demo>mvn tomcat7:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.sharp.abu:web-app-demo >-----
[INFO] Building web-app-demo Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ web-app-demo >>>
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ web-app-demo ---
[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:3.5.1:compile (default-compile) @ web-app-demo ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to E:\Accolite AU\Day 9\afternoon\web-app-demo\target\classes
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ web-app-demo <<<
[INFO]
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ web-app-demo ---
[INFO] Running war on http://localhost:9000/tomcat-web-app
[INFO] Using existing Tomcat server configuration at E:\Accolite AU\Day 9\afternoon\web-app-demo\target\tomcat
[INFO] create webapp with contextPath: /tomcat-web-app
Jan 21, 2021 10:13:46 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9000"]
Jan 21, 2021 10:13:46 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 21, 2021 10:13:46 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Servlet simpleServlet has started
Jan 21, 2021 10:13:47 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9000"]
```

Project run successfully

Web app source code uploaded

Output: url: <http://localhost:9000/tomcat-web-app/>



Servlet page url: <http://localhost:9000/tomcat-web-app/servletpage>

