

LAB EXERCISE 8

(1ST APRIL)

Aim: Build Profile Using Maven

Solution:

- Run maven install to check if the project is working correctly.

```
E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app>mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\target\classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.051 s - in com.mycompany.app.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) @ my-app ---
[INFO] Building jar: E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\target\my-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ my-app ---
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\target\my-app-1.0-SNAPSHOT.jar to C:\Users\Ayush Bansal\.m2\repository\com\mycompany\app\my-app\1.0-SNAPSHOT.jar
[INFO] Installing E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\pom.xml to C:\Users\Ayush Bansal\.m2\repository\com\mycompany\app\my-app\1.0-SNAPSHOT.pom
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 6.680 s
```

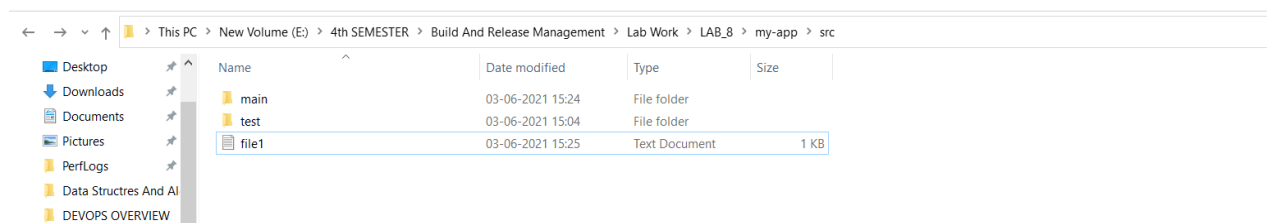
• Editing pom.xml file to add the profile

```
new 1 x new 2 x pom.xml x
73     </pluginManagement>
74 </build>
75
76 <profiles>
77   <profile>
78     <id>test</id>
79     <build>
80       <plugins>
81         <plugin>
82           <groupId>org.apache.maven.plugins</groupId>
83           <artifactId>maven-antrun-plugin</artifactId>
84           <version>1.1</version>
85           <executions>
86             <execution>
87               <phase>test</phase>
88               <goals>
89                 <goal>run</goal>
90               </goals>
91               <configuration>
92                 <tasks>
93                   <echo>Using env.test.properties</echo>
94                   <copy file="src/main/resources/env.test.properties"
95                     tofile="${project.build.outputDirectory}
96                       /env.properties"/>
97                 </tasks>
98               </configuration>
99             </execution>
100           </executions>
101         </plugin>
102       </plugins>
103     </build>
104   </profile>
105 </profiles>
106
107 </project>
108
109
```

• Running the command mvn test -Ptest


```
E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app>mvn test -Ptest
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.048 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ my-app ---
[INFO] Executing tasks
[echo] files copied successfully
[copy] Copying 1 file to E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src
[INFO] Executed tasks
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.491 s
[INFO] Finished at: 2021-06-03T15:25:24+05:30
```

- We get build success
- We get an echo message saying “files copied successfully”
- The file is also copied to the src folder.



- Adding two profiles, test and newtest.

➤ Test is used for coping files and newtest is used for displaying message.



```
94      <copy file="src/main/file1.txt"
95            tofile="src/file1.txt"/>
96    </tasks>
97  </configuration>
98 </execution>
99 </executions>
100 </plugin>
101 </plugins>
102 </build>
103 </profile>
104
105 <profile>
106   <id>newtest</id>
107   <build>
108     <plugins>
109       <plugin>
110         <groupId>org.apache.maven.plugins</groupId>
111         <artifactId>maven-antrun-plugin</artifactId>
112         <version>1.1</version>
113         <executions>
114           <execution>
115             <phase>test</phase>
116             <goals>
117               <goal>run</goal>
118             </goals>
119             <configuration>
120               <tasks>
121                 <echo>files copied sucessfully</echo>
122               </tasks>
123             </configuration>
124           </execution>
125         </executions>
126       </plugin>
127     </plugins>
128   </build>
129 </profile>
```

● Running the command mvn test -Ptest -Pnewtest

```
E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app>mvn test -Ptest -Pnewtest
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ my-app ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\4th SEMESTER\Build And Release Management\Lab Work\LAB_8\my-app\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ my-app ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.04 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-antrun-plugin:1.1:run (default) @ my-app ---
[INFO] Executing tasks
[INFO] [echo] files copied successfully
[INFO] Executed tasks
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 4.694 s
```

- We get build success.
- We get an echo message saying “files copied successfully” through the newtest profile.
- The file is also copied to the src folder which is done using the test profile.

- Adding our profiles as active profiles in %USER_HOME%/.m2/ setting.xml

```
1 <settings xmlns = "http://maven.apache.org/POM/4.0.0"
2   xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4     http://maven.apache.org/xsd/settings-1.0.0.xsd">
5   <mirrors>
6     <mirror>
7       <id>maven.dev.snaponglobal.com</id>
8       <name>Internal Artifactory Maven repository</name>
9       <url>http://repol.maven.org/maven2/</url>
10      <mirrorOf>*</mirrorOf>
11    </mirror>
12  </mirrors>
13  <activeProfiles>
14    <activeProfile>test</activeProfile>
15  </activeProfiles>
16 </settings>
```

