BUILD AND RELEASE MANAGEMENT LAB

LAB 8 1st APRIL

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DEVOPS 2ND YEAR
4th SEMESTER

Aim: Build Profile Using Maven

PROCEDURE:

Run maven install to check if the project is working correctly

```
Command Prompt
                                                                                  C:\Users\tanis\eclipse-workspace\my-app>mvn install
[INFO] Scanning for projects...
[INFO]
                   ----- com.mycompany.app:my-app >-----
[INFO] -
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]------
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-install-plugin/2.5.2/maven-install-plugin-2.5.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
install-plugin/2.5.2/maven-install-plugin-2.5.2.pom (6.4 kB at 2.9 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-plugins/25/maven-plugins-25.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
-plugins/25/maven-plugins-25.pom (9.6 kB at 23 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-install-plugin/2.5.2/maven-install-plugin-2.5.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
install-plugin/2.5.2/maven-install-plugin-2.5.2.jar (33 kB at 70 kB/s)
INF0]
[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 C:\Users\tanis\eclipse-workspace\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 C:\Users\tanis\eclipse-workspace\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 C:\Users\tanis\eclipse-workspace\my-app\src\test\
resources
INF0]
```

Command Prompt X 6/commons-codec-1.6.pom Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1. 6/commons-codec-1.6.pom (11 kB at 27 kB/s) Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven -shared-utils/0.4/maven-shared-utils-0.4.pom Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/mavenshared-utils/0.4/maven-shared-utils-0.4.pom (4.0 kB at 9.9 kB/s) Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-ut ils/3.0.15/plexus-utils-3.0.15.pom Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-uti ls/3.0.15/plexus-utils-3.0.15.pom (3.1 kB at 8.2 kB/s) Downloading from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1 .6/commons-codec-1.6.jar Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-ut ils/3.0.15/plexus-utils-3.0.15.jar Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven -shared-utils/0.4/maven-shared-utils-0.4.jar Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1. 6/commons-codec-1.6.jar (233 kB at 92 kB/s) Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/mavenshared-utils/0.4/maven-shared-utils-0.4.jar (155 kB at 60 kB/s) Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-uti ls/3.0.15/plexus-utils-3.0.15.jar (239 kB at 77 kB/s) [INFO] Installing C:\Users\tanis\eclipse-workspace\my-app\target\my-app-1.0-SNAPSHOT.jar to C:\Users\tanis\.m2\repository\com\mycompany\app\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.jar [INFO] Installing C:\Users\tanis\eclipse-workspace\my-app\pom.xml to C:\Users\tanis\.m2\repo sitory\com\mycompany\app\my-app\1.0-SNAPSHOT\my-app-1.0-SNAPSHOT.pom [INFO] -----[INFO] BUILD SUCCESS [INFO] ------[INFO] Total time: 36.423 s [INFO] Finished at: 2021-04-01T04:54:53+05:30

Editing pom.xml file to add the profile

```
<version>3.7.1
67
              </plugin>
68
              <plugin>
69
                <artifactId>maven-project-info-reports-plugin</artifactId>
                <version>3.0.0
70
              </plugin>
71
            </plugins>
72
          </pluginManagement>
73
74
        </build>
75
76
    77
    占
            file>
78
               <id>test</id>
79
               <build>
    中
80
                  <plugins>
81
                     <plugin>
82
                        <groupId>org.apache.maven.plugins</groupId>
83
                        <artifactId>maven-antrun-plugin</artifactId>
84
                        <version>1.1
85
                        <executions>
86
                           <execution>
87
                              <phase>test</phase>
88
                              <goals>
89
                                 <goal>run</goal>
90
                              </goals>
91
                              <configuration>
92
                                 <tasks>
                                    <echo>files copied successfully! </echo>
93
94
                                    <copy file="src/main/newfile.txt"</pre>
95
                                       tofile="src/newfile.txt"/>
96
                                 </tasks>
                              </configuration>
97
                           </execution>
98
                        </executions>
99
100
                     </plugin>
101
                  </plugins>
               </build>
102
103
            </profile>
         </profiles>
104
105
     L</project>
106
```

Running the command maven test -Ptest

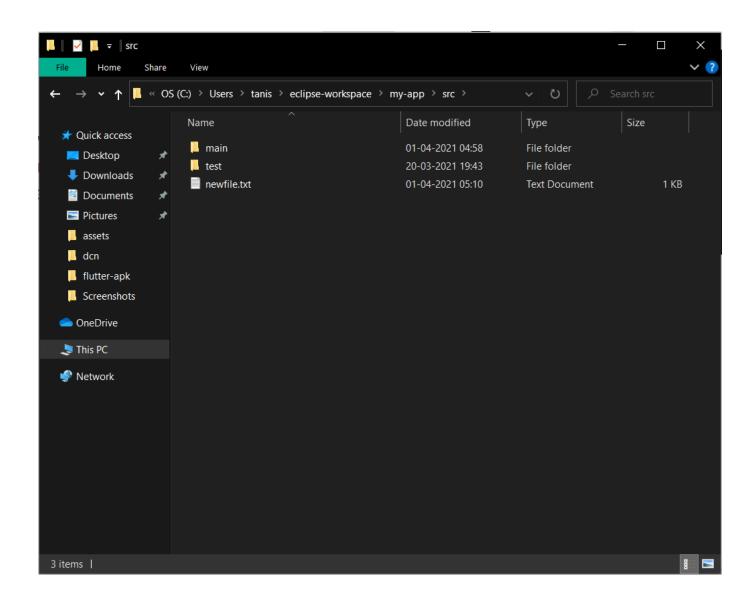
```
Command Prompt
C:\Users\tanis\eclipse-workspace\my-app>mvn test -Ptest
[INFO] Scanning for projects...
[INFO]
[INFO] -----
                  ----- com.mycompany.app:my-app >-----
[INFO] Building my-app 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-antrun-plugin/1.1/maven-antrun-plugin-1.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
antrun-plugin/1.1/maven-antrun-plugin-1.1.pom (1.2 kB at 772 B/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-plugin-parent/2.0.1/maven-plugin-parent-2.0.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
-plugin-parent/2.0.1/maven-plugin-parent-2.0.1.pom (7.4 kB at 17 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/mave
n-antrun-plugin/1.1/maven-antrun-plugin-1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven
antrun-plugin/1.1/maven-antrun-plugin-1.1.jar (12 kB at 27 kB/s)
[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 C:\Users\tanis\eclipse-workspace\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 C:\Users\tanis\eclipse-workspace\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
```

```
Command Prompt
                                                                                    ×
                                                                              [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 C:\Users\tanis\eclipse-workspace\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] --- maven-surefire-plugin:2.22.1:test (default-test) @ my-app ---
[INFO]
[INFO] -----
[INFO] TESTS
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.066 s - in com.myco
mpany.app.AppTest
[INFO]
[INFO] Results:
[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
    [echo] files copied successfully!
    [copy] Copying 1 file to C:\Users\tanis\eclipse-workspace\my-app\src
[INFO] Executed tasks
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 01:20 min
[INFO] Finished at: 2021-04-01T05:10:43+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 copying files and newtest is used for displaying a message

```
🗎 app.js 🗵 🖶 Logo.js 🗵 🖶 Form.js 🗵 🖶 App.js 🗵 🛗 login.html 🗵 🛗 recommendation.html 🗵 🚔 reminder.html 🗵 🛗 transfertokens.html 🗵 🚔 abcd.html 🗵 🚔 pom.xml 🗵
                  <id>test</id>
     一日日日
                  <build>
 80
                     <plugins>
 81
                         <plugin>
82
83
84
85
86
87
88
89
                            <groupId>org.apache.maven.plugins</groupId>
                            <artifactId>maven-antrun-plugin</artifactId>
                            <version>1.1
                            <executions>
                                <execution>
                                   <phase>test</phase>
                                   <goals>
                                      <goal>run</goal>
90
91
92
93
                                   </goals>
                                   <configuration>
                                      <tasks>
                                        <copy file="src/main/newfile.txt"</pre>
 94
                                            tofile="src/newfile.txt"/>
95
96
97
                                      </tasks>
                                   </configuration>
                                </execution>
99
100
                         </plugin>
                     </plugins>
102
                  </build>
103
104
105
106
               </profile>
               cprofile>
                  <id>newtest</id>
                  <build>
                     <plugins>
108
109
110
111
112
113
114
115
                         <plugin>
                            <groupId>org.apache.maven.plugins</groupId>
                            <artifactId>maven-antrun-plugin</artifactId>
                            <version>1.1
                            <executions>
                                <execution>
                                   <phase>test</phase>
                                   <goals>
116
117
118
119
120
121
122
                                      <goal>run</goal>
                                   </goals>
                                   <configuration>
                                        <echo>files copied successfully!</echo>
                                      </tasks>
                                   </configuration>
                                </execution>
                            </executions>
125
126
                         </plugin>
                     </plugins>
                  </build>
               </profile>
```

Running the command maven test -Ptest -Pnewtest

```
Command Prompt
                                                                               ×
C:\Users\tanis\eclipse-workspace\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 C:\Users\tanis\eclipse-workspace\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 C:\Users\tanis\eclipse-workspace\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] TESTS
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.055 s - in com.myco
mpany.app.AppTest
[INFO]
[INFO] Results:
```

```
Command Prompt
                                                                               ×
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\tanis\eclipse-workspace\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] TESTS
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.055 s - in com.myco
mpany.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
    [echo] files copied successfully!
    [copy] Copying 1 file to C:\Users\tanis\eclipse-workspace\my-app\src
[INFO] Executed tasks
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.888 s
[INFO] Finished at: 2021-04-01T05:28:34+05:30
[INFO] -----
C:\Users\tanis\eclipse-workspace\my-app>_
```

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/settings.xml

```
app js 🗵 🖶 Logo js 🗵 👺 Form js 🗵 📇 App js 🗵 🖶 login html 🗵 🖶 recommendation html 🗵 📑 reminder html 🗵 🖶 transfertokens html 🗵 🗎 abcd html 🗵 🖶 pom xml 🗵
     <settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"</pre>
  3
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0 http://maven.apache.org/xsd/settings-1.0.0.xsd">
  4 🖣
  5
       <servers>
  6
          <server>
              <id>abc</id>
              <username>admin</username>
  8
  9
              <password>admin123</password>
          </server>
        </servers>
 13
     <activeProfiles>
 14
            <activeProfile>test</activeProfile>
            <activeProfile>newtest</activeProfile>
         </activeProfiles>
 16
 18
 19
     </settings>
```

Running maven test, which will automatically run our active profiles

```
Command Prompt
::\Users\tanis\eclipse-workspace\my-app>mvn test
[INFO] Scanning for projects...
[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 C:\Users\tanis\eclipse-workspace\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
     --- 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 C:\Users\tanis\eclipse-workspace\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] TESTS
INFO]
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.095 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
    [echo] files copied successfully!
    [copy] Copying 1 file to C:\Users\tanis\eclipse-workspace\my-app\src
[INFO] Executed tasks
[INFO] ------
[INFO] BUILD SUCCESS
[INFO] Total time: 8.696 s
INFO] Finished at: 2021-04-01T12:30:17+05:30
[INFO] ------
C:\Users\tanis\eclipse-workspace\my-app>
```

We get a build success

We get an echo message "files copied successfully" generated by the newtest profile The file is also copied to the src folder which is done using the test profile

