Build and Release Management Lab

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LAB EXERCISE 6

Aim: Create a simple Maven Project using CLI

```
Microsoft Windows [Version 10.0.19042.867]
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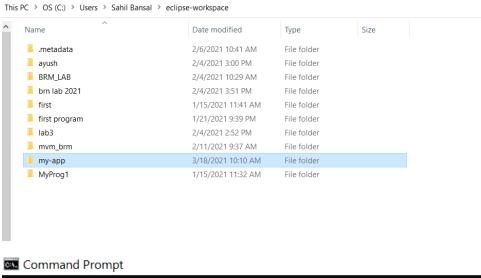
C:\Users\Sahil Bansal>mvn --version
Apache Maven 3.5.3 (3383c37e1f9e9b3bc3df5050c29c8aff9f295297; 2018-02-25T01:19:05+05:30)
Maven home: C:\apache-maven-3.5.3\bin\..
Java version: 15.0.1, vendor: Oracle Corporation
Java home: C:\Program Files\Java\jdk-15.0.1
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"

C:\Users\Sahil Bansal>cd C:\Users\Sahil Bansal\eclipse-workspace
```

Creating a Project:

You will need somewhere for your project to reside, create a directory somewhere and start a shell in that directory. On your command line, execute the following Mayen goal

You will notice that the generate goal created a directory with the same name given as the artifact ID. Change into that directory.



C:\Users\Sahil Bansal\eclipse-workspace>cd my-app

POM.XML File

```
<groupId>com.devops.upes</groupId>
      <artifactId>my-app</artifactId>
<version>1.0-SNAPSHOT</version>
      <name>my-app</name>
<!-- FIXME change it to the project's website -->
      <url>http://www.example.com</url>
      properties>
            operuss 

«project build.sourceEncoding» UTF-8</project build.sourceEncoding» 

«maven.compiler.source» 1.7</maven.compiler.source> 

«maven.compiler.target» 1.7</maven.compiler.target>
      <dependencies>
- <dependency>
                  <groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.11</version>
            <scope>test</scope>
</dependency>
      </dependencies>
<br/>
<br/>
dependencies>
         parent pom) ->

parent pom ->

<ple>
plugins>

<plugins>

core/lifecycles.html#clean_Lifecycle ->

                     - <plugin> <artifactId>maven-clean-plugin</artifactId> <aversion> 3.1.0</aversion>

<
                     - - <ple>- <ple>- <ple>- <ple>- - 
- <artifactId>maven-resources-plugin</artifactId>- 
                              <version>3.0.2</version>
                         </plugin>
                     - <plugin> <artifactId>maven-compiler-plugin</artifactId>
                              <version>3.8.0
                     </pl>

<plugin>
<artifactId>maven-surefire-plugin</artifactId>
                              <version>2.22.1
```

U

```
</plugin>
                 <plugin>
                      <artifactId>maven-jar-plugin</artifactId>
                      <version>3.0.2
                  </plugin>
                 <plugin>
                      <artifactId>maven-install-plugin</artifactId>
                      <version>2.5.2
                 </plugin>
                 <plugin>
                      <artifactId>maven-deploy-plugin</artifactId>
                      <version>2.8.2
                 </plugin>
                      <!-- site lifecycle, see https://maven.apache.org/ref/current/maven-
                      core/lifecycles.html#site Lifecycle -->
                 <plugin>
                      <artifactId>maven-site-plugin</artifactId>
                      <version>3.7.1
               - <plugin>
                      <artifactId>maven-project-info-reports-plugin</artifactId>
                      <version>3.0.0</version>
                 </plugin>
             </plugins>
         </pluginManagement>
    </build>
</project>
```

Build the Project

```
C:\Users\Sahil Bansal\eclipse-workspace\my-app>mvn package
```

The command line will print out various actions, and end with the following:

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| Company | Comp
```

You may test the newly compiled and packaged JAR with the following command, which will print the quintessential:

C:\Users\Sahil Bansal\eclipse-workspace\my-app>java -cp target/my-app-1.0-SNAPSHOT.jar com.devops.upes.App Hello World! C:\Users\Sahil Bansal\eclipse-workspace\my-app>_