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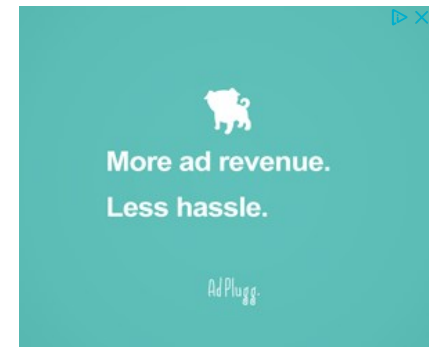
How to Build Java Project including all Dependencies Using Maven? maven-resources, maven-dependency and maven-jar Plugins

Last Updated on July 14th, 2018 by [App Shah](#)

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Microservices with Hazelcast IMDG and Spring Boot



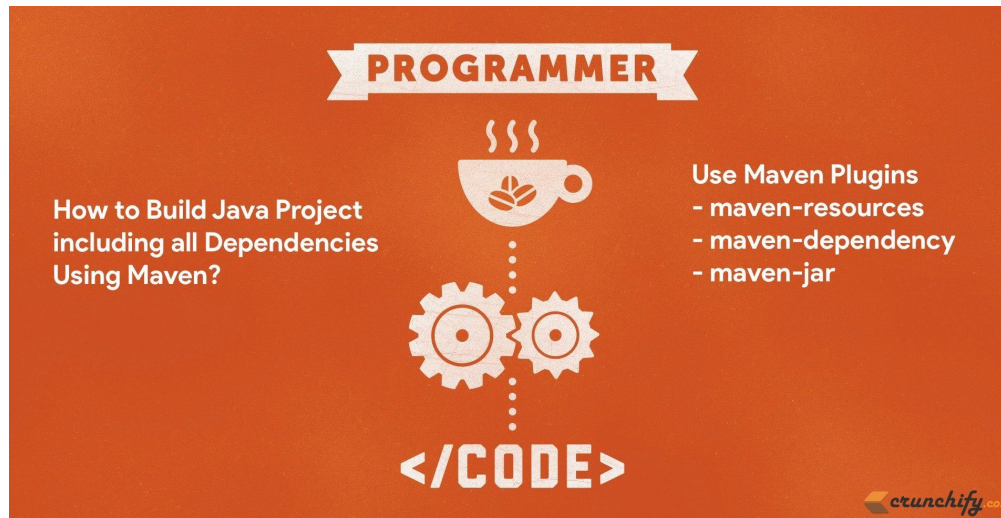
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Are you working on enterprise level **Java Project**? Using Maven `POM.xml` file to keep all dependencies up-to date? In your project do you have `src folder`, `resources folder`, `lib folder`, etc? Well, what if you want to **deploy** this project to 3rd party client? Any other standalone hardware?

Well, there is a simple way to build and create your Java Project's executable with **Maven** Plugins. Take a look at below sample Java Project.



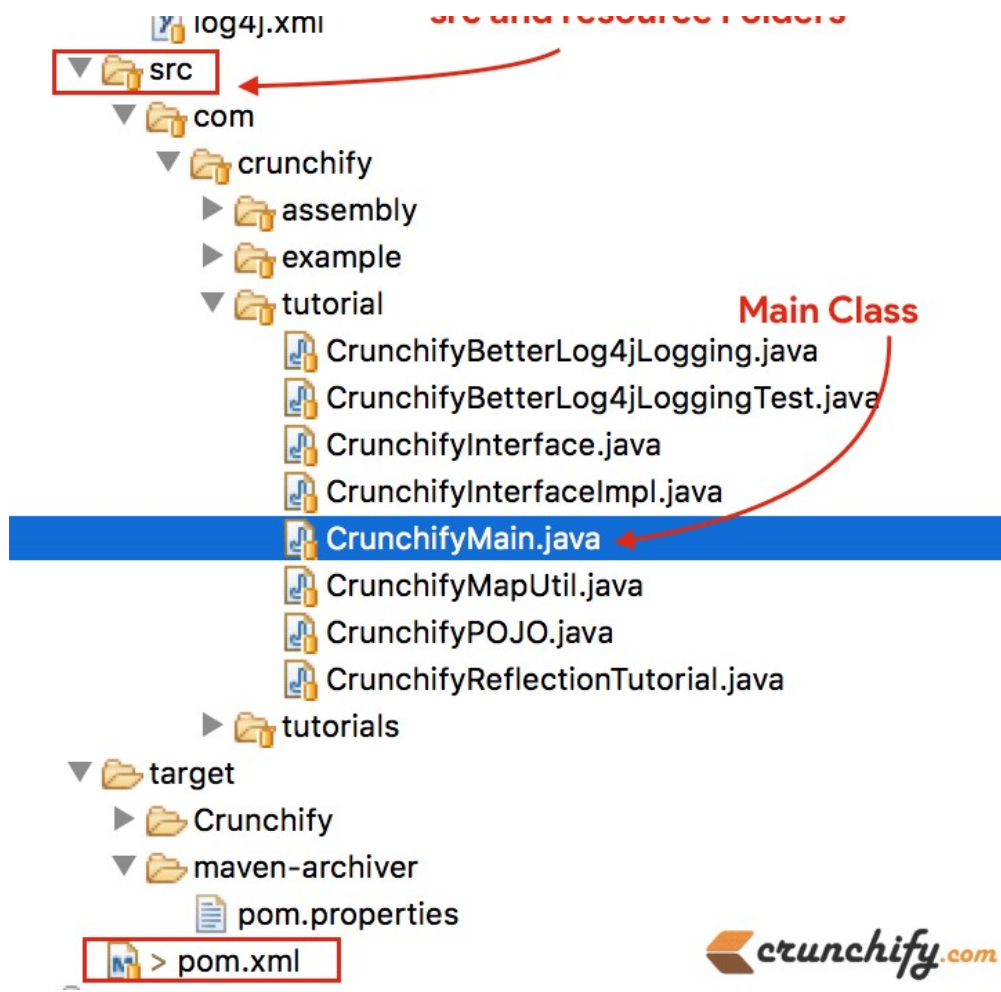
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Let's get started and let me explain all parts of project:

1. `CrunchifyMavenBuildPlugins` is a Maven Project. If you have Java project and wanted to convert it into Maven project then follow [this tutorial](#).
2. We do have two folders. `src` and `resources`.



3. Inside `resources` folder we do have a folder called `Scripts` which contains one executable `shell script` file.
4. `CrunchifyMain.java` is a main starting point which has `main(String args[])` method inside.
5. `pom.xml` file in which we will add Maven Plugins which will build executable .jar project with all included dependencies.

Step-1

Open your `pom.xml` file and add below under `<build>`. Note: I've added **3 plugins** below below.

1. `maven-resources-plugin`: The Resources Plugin handles the `copying of project` resources to the output directory. The main resources are the resources associated to the main source code.
2. `maven-dependency-plugin`: The dependency plugin provides the capability to manipulate artifacts. It can copy and/or unpack artifacts from local or remote `repositories` to a specified location.
3. `maven-jar-plugin`: This plugin provides the capability to build and sign jars.








Here is a complete pom.xml file. Mainly you would be interested in `<build>` tag.

Please update `directory` location, filename and path as per your need below.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.o
  <modelVersion>4.0.0</modelVersion>
  <groupId>CrunchifyMavenBuildPlugins</groupId>
```

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```
<artifactId>CrunchifyMavenBuildPlugins</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>CrunchifyMavenBuildPlugins</name>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
  <dependency>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
    <version>1.2.17</version>
  </dependency>
  <dependency>
    <groupId>com.googlecode.json-simple</groupId>
    <artifactId>json-simple</artifactId>
    <version>1.1</version>
  </dependency>
  <dependency>
    <groupId>axis</groupId>
    <artifactId>axis</artifactId>
    <version>1.4</version>
  </dependency>
  <dependency>
    <groupId>commons-beanutils</groupId>
    <artifactId>commons-beanutils</artifactId>
    <version>1.8.3</version>
  </dependency>
  <dependency>
    <groupId>commons-collections</groupId>
    <artifactId>commons-collections</artifactId>
    <version>3.2.1</version>
  </dependency>
  <dependency>
    <groupId>commons-configuration</groupId>
    <artifactId>commons-configuration</artifactId>
    <version>1.10</version>
  </dependency>
  <dependency>
    <groupId>commons-io</groupId>
    <artifactId>commons-io</artifactId>
```

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```
        <version>2.4</version>
    </dependency>
    <dependency>
        <groupId>javax.mail</groupId>
        <artifactId>mail</artifactId>
        <version>1.4.7</version>
    </dependency>
    <dependency>
        <groupId>javax.servlet</groupId>
        <artifactId>servlet-api</artifactId>
        <version>2.5</version>
    </dependency>
    <dependency>
        <groupId>org.json</groupId>
        <artifactId>json</artifactId>
        <version>20140107</version>
    </dependency>
    <dependency>
        <groupId>axis</groupId>
        <artifactId>axis-saaj</artifactId>
        <version>1.4</version>
    </dependency>
    <dependency>
        <groupId>wsdl4j</groupId>
        <artifactId>wsdl4j</artifactId>
        <version>1.6.3</version>
    </dependency>
    <dependency>
        <groupId>com.google.zxing</groupId>
        <artifactId>core</artifactId>
        <version>2.0</version>
    </dependency>
</dependencies>

<build>
    <pluginManagement>
        <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>2.3.1</version>
            </plugin>
        </plugins>
    </pluginManagement>
    <configuration>
```

```

        <source>1.7</source>
        <target>1.7</target>
    </configuration>
</plugin>
</plugins>
</pluginManagement>
<plugins>
    <plugin>
        <artifactId>maven-resources-plugin</artifactId>
        <version>2.6</version>
        <executions>
            <execution>
                <id>copy-resources</id>
                <phase>validate</phase>
                <goals>
                    <goal>copy-resources</goal>
                </goals>
                <configuration>
                    <outputDirectory>${basedir}.
                    <resources>
                        <resource>
                            <directory>
                            <filtering>
                            </filtering>
                        </resource>
                    </resources>
                </configuration>
            </execution>
        </executions>
    </plugin>
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-dependency-plugin</artifactId>
        <executions>
            <execution>
                <id>copy-dependencies</id>
                <phase>prepare-package</phase>
                <goals>
                    <goal>copy-dependencies</goal>
                </goals>
                <configuration>
                    <outputDirectory>${project.b
                    <overwriteReleases>false</o
                </configuration>
            </execution>
        </executions>
    </plugin>
</plugins>

```





```
        <overwriteSnapshots>false</ov
        <overwriteIfNewer>true</overW
    </configuration>
</execution>
</executions>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <configuration>
        <archive>
            <manifest>
                <addClasspath>true</addClassp
                <classpathPrefix>lib/</classp
                <mainClass>com.crunchify.tuto
            </manifest>
            <manifestEntries>
                <Class-Path>.</Class-Path>
            </manifestEntries>
        </archive>
        <finalName>Crunchify/Crunchify</finalName>
    </configuration>
</plugin>
</plugins>
</build>
</project>
```

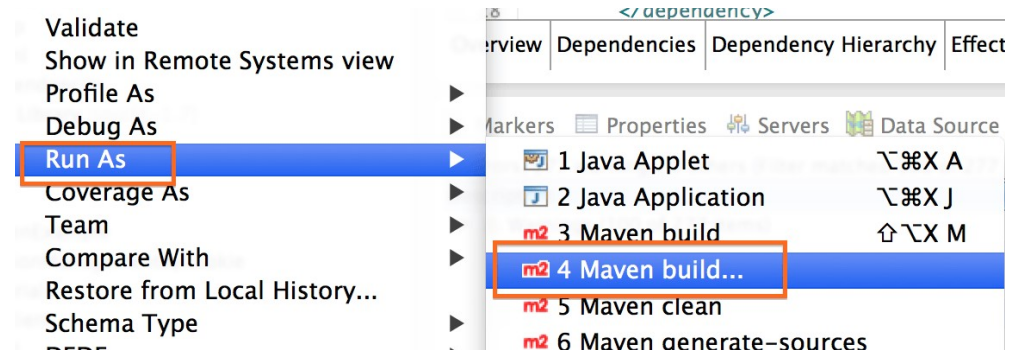


Step-2



Right Click on `Project -> Run As -> Maven Build`

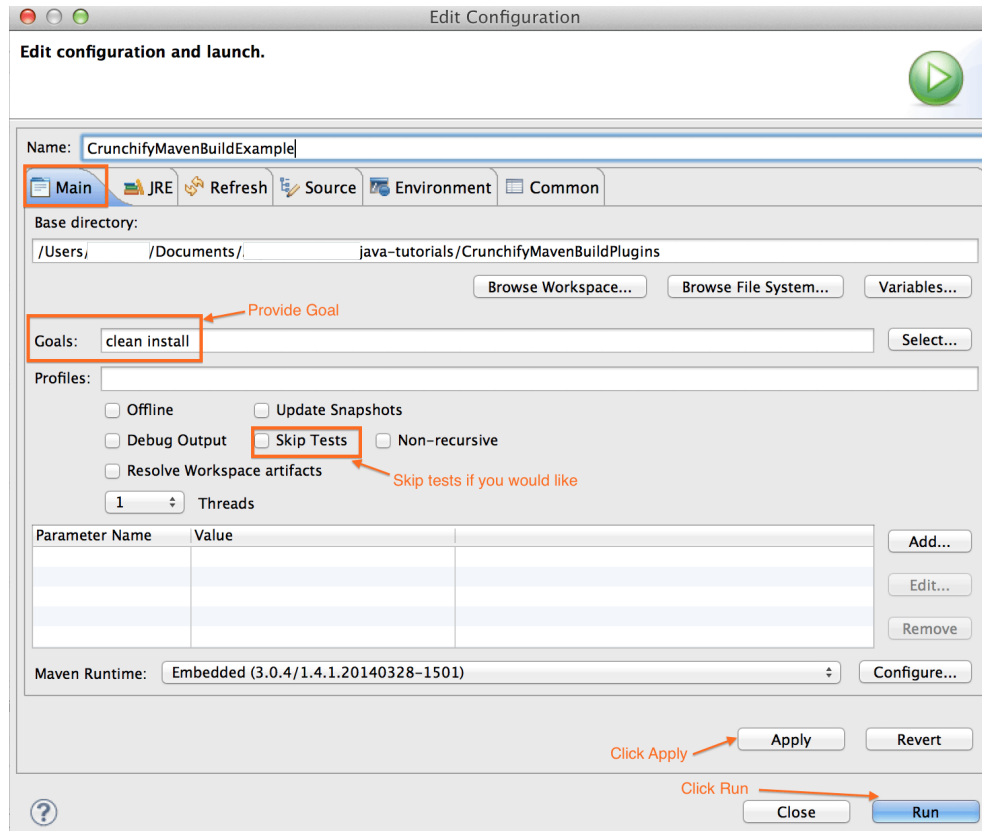




Step-3

Provide argument "clean install"





Step-4

You should see result something like this.

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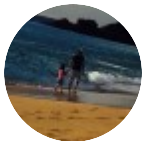
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