

# Prerequisites:

- 1. Java Programming Language (8.0)
  - a. JDK
  - b. JRE
- 2. Apache Maven 3.9.3
- 3. VSCode

Check Versions:
\$ javac -version JDK

\$ java -version JF \$ mvn --version

\$ code --version

\$ git --version

Group(Solution)

Artifact(Project)

## **GENERATE PROJECT**

#### Windows:

mvn archetype:generate ^

-DgroupId=com.nubeera.app ^

-DartifactId=my-app ^

- -DarchetypeArtifactId=maven-archetype-quickstart ^
- -DarchetypeVersion=1.4 ^
- -DinteractiveMode=false

#### Linux/Mac OS:

mvn archetype:generate \

- -DgroupId=com.nubeera.app \
- -DartifactId=my-app \
- -DarchetypeArtifactId=maven-archetype-quickstart \
- -DarchetypeVersion=1.4 \
- -DinteractiveMode=false

### Check In to Repository(VCS- Github)

\$ git add.

- \$ git commit -m "Message"
- \$ git push -u origin master

#### Developer Write Code:

- Java Files
- Configuration Files
- Push
- 1. Pull Code in Build Server(Maven)
- 2. Clean Previous Output( # mvn clean )
- Compile Project (# mvn compile )
- 4. Run Project
  - a. \$ cd target\classes
  - b. \$ java com.nubeera.app.App

# Apache Maven Build Lifecycle Phases

] Validate =

- · validate the project is correct
- · Necessary information of Project.

2 Compile =

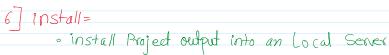
3 Test =

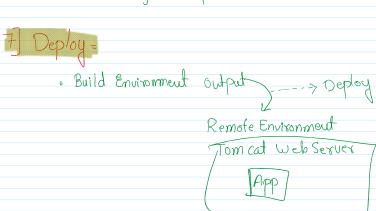
1) Package=

package = Compile + Test - > Output (JAR, WAR)

5 Verify=

· Run any checks on Result of Integration test to ensure project Quality Criteria Met (Rules)





\$ mvn surefire:test

# Apache Maven

Plugins = Extend Functionality of Apache Maven

o Deploy application to tomcat

Maven > Tomcat

Dependency = Extend Functionality of Project

o Library of Project

Example

Logging -> Log4 J

