Maven: Java application Build using maven

26 August 2024 15:30

Lab Practice

1. Install Maven: cehcek the version of maven using mvn-v

```
PS C:\Users\HOME> cd "F:\maven-test\myfirstjava-master"
PS F:\maven-test\myfirstjava-master> mvn -v
Apache Maven 3.8.7 (b89d5959fcde851dcb1c8946a785a163f14e1e29)
Maven home: C:\ProgramData\chocolatey\lib\maven\apache-maven-3.8.7
Java version: 17.0.6, vendor: Oracle Corporation, runtime: C:\Program Files\Java\jdk-17
Default locale: en_IN, platform encoding: Cp1252
OS name: "windows 11", version: "10.0", arch: "amd64", family: "windows"
PS F:\maven-test\myfirstjava-master>
```

2. Change the path of the project.

-Use CD "target Directory"

3. Run maven lifecycle command

--> mvn clean

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```

--> mvn validate

```
PS F:\[maven-test\myfirst]ava-master\rangle mvn validate
[INFO] Scanning for projects...
[WARNING]
[WARNING] Some problems were encountered while building the effective model for helloworld:helloworld:war:1.0-SN
[WARNING] 'build.plugins.plugin.version' for org. apache.maven.plugins:maven-surefire-plugin is missing. @ line 4
[WARNING]
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING]
[WARNING]
[WARNING]
[INFO]
[INFO
```

--> mvn compile

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| SF:\average |
```

--> mvn test

```
SF:\maven-test\myfirstjava-master> mvn test
NPO] Scanning for projects...
ARRNING] Some problems were encountered while building the effective model for helloworld:helloworld:war:1.0-SNAPSHOT
ARRNING] 'build.plugins.plugin.version' for org.apache.maven.plugins:maven-surefire-plugin is missing. @ line 48, column 15
ARRING]
ARRING]
It is highly recommended to fix these problems because they threaten the stability of your build.
ARRING]
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```

--> mvn package

```
S F:\maven-test\myfirstjava-master> mvn package
INFO] Scanning for projects...

WARNING]
WARN
```

--> Mvn Deploy

```
PS F:\maven-test\myfirstjava-master> mvn deploy
[INFO] Scanning for projects...
[WARNING]
[WARNING]
[WARNING] Some problems were encountered while building the effective model for helloworld:helloworld:war:1.0-SNAPSHOT
[WARNING] build.plugins.plugin.version for org.apache.maven.plugins:maven-surefire-plugin is missing. @ line 48, column 15
[WARNING]
[WARNING] It is highly recommended to fix these problems because they threaten the stability of your build.
[WARNING]
[WARNING]
[WARNING]
[WARNING]
[UNFO]
[INFO]
```

```
NPO] Building war: F:\maven-test\myfirstjava-master\target\helioworld.war
NPO] --- maven-install-plugin: 2. 4:install (default-install) @ helioworld ---
NPO] Installing F:\maven-test\myfirstjava-master\target\helioworld.war to C:\Users\HOME\.m2\repository\helioworld\helioworld\l. 0-SNA
HOT\helioworld-1. 0-SNAPSHOT.war
NPO] Installing F:\maven-test\myfirstjava-master\pom.xml to C:\Users\HOME\.m2\repository\helioworld\helioworld\l. 0-SNAPSHOT\helioworld\l. 0-SNAPSHOT\helioworld\l. 0-SNAPSHOT\helioworld\l. 0-SNAPSHOT\helioworld\l. 0-SNAPSHOT\helioworld\l. 0-SNAPSHOT\maven-metadata.xml
NPO] --- maven-deploy-plugin: 2. 7:deploy (default-deploy) @ helioworld ---
wnloading from corpl: file:///home/myfolder/.m2/helloworld/helloworld/l. 0-SNAPSHOT/maven-metadata.xml (764 B at 4.5 kB/s)
loading from corpl: file://home/myfolder/.m2/helloworld/helloworld/l. 0-SNAPSHOT/helloworld-1. 0-20240826. 101714-3. war
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/l. 0-SNAPSHOT/helloworld-1. 0-20240826. 101714-3. war (3.9 MB at 32 MB/s)
loading to corpl: file://home/myfolder/.m2/helloworld/helloworld/l. 0-SNAPSHOT/helloworld-1. 0-20240826. 101714-3. pom
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/lo-SNAPSHOT/helloworld-1. 0-20240826. 101714-3. pom (2.3 kB at 196 kf)
wnloading from corpl: file://home/myfolder/.m2/helloworld/helloworld/maven-metadata.xml
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/maven-metadata.xml
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/lo-SNAPSHOT/maven-metadata.xml
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/lo-SNAPSHOT/maven-metadata.xml
loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/lo-SNAPSHOT/maven-metadata.xml
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loaded to corpl: file://home/myfolder/.m2/helloworld/helloworld/lo-SNAPSHOT/maven-metadata.xml
loaded to corpl:
```