**Build:-** compile ,run(test case),package or war,deploy ----------------mvn install

Using plugin - maven reuse

**Configure jdk with eclipse:**

Windows -preference-search jre- select jdk path and delete jre

Configure server: : windows-show view-server

Machine generated alternative text:
.DS_Store 
bin 
lib* 
LICENSE 
NOTICE 
README.txt 
logging 
settings.xml 
toolchains.xml 

Boot :- classloader of maven

Setting.xml :- using this file can customize the behavior of maven

Note:- maven automatically create setting.xml under .m2 of user directory

**POM :** Project Object Model

**Note:**

1. To build a project maven looks pom.xml i.e wt type of project is, name of the project

1. To run class from jar:-

C:\Users\saurakes\AppData\Local\Temp\msohtmlclip1\02\clip_image002.png

1. Tar or war is created by maven in target folder

**4) Maven plugin and goals**

Maven plugin is a collection of one or more goal

Machine generated alternative text:
compiler 
Maven jar 
war 
pom.xml 

Every maven project get default setting of compile,jar,war but we can overwrite them in pom.xml

If we customize pom.xml or add any additional functionality we get using maven

**5) Phases and goals**

1. **Maven Coordinates**

Machine generated alternative text:
linates 
3LMläven Coordinates 
groupld 
artifactld 
version 
packaging 
groupld 

Group id: -----package name

Artifact id: - project name

**Important point** :-Artifact id is used to name the war file artifact id: version information

1. **Maven Repository**

**default maven repository** central repository of maven

<http://repo.maven.apache.org/maven2/>

Machine generated alternative text:
Maven Repositories 
mvn install 
Jar Plugin 
War 
default maven location 
Maven Central 
Repository 
http://repo.maven.apache.org/maven2/ 
init jar sprr.g.jar 
mysqljar 

**Skip test from cmd:-**

Mvn install -DskipTests

Machine generated alternative text:
cdependencies» 
dependency» 
carti fact 
ion» 
Qdependency»l 

**NOTE :- if scope is provided maven will exclude it from war file.**

**if scope is test maven will use it only when we will compile test class and run test cases**

**Note: - Maven can download dependency transitively( means**

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>4.3.20.RELEASE</version>

</dependency>

**It will download all jar on which spring-context depends**

**==============================================================================**

**Maven for war:-**

**Using this**

<build>

<finalName>productweb</finalName>

</build>

**We can overwrite the name of war by default name of war is artifact id : version**

Resolve servlet error:

Right click on project- properties-search targeted runtimes - select apache tomcat - apply and close

**Multi module project**

**Wt we learn in this session**

Machine generated alternative text:
Multi Module Project 
Parent POM 
Change the child POMs 
Code the Servlets 
WEB.XML 
Build and Run 

Machine generated alternative text:
Multi Module Project 
parent folder 
pom.xml 
pom.xml 
pom.xml 
productservices 
productweb 

Note: if we want to run multi module project we can do it from parent pom.xml

Machine generated alternative text:
(INFO) 
(INFO) 
(INFO) 
(INFO) 
(INFO) 
(INFO) 
(1NFOJ 
Scanning for projects... 
Reactor •Build Order: 
productpa rent 
productservices 
productweb Maven Webapp 

Reactor decides project order. If one project depend on other project that project need to execute first

Parent pom

Machine generated alternative text:
ect xmlns—"http: / 'maven. apache . org/POM/4 . O. O" 
xmlns : : / / were,'. w3. org/2001/XMLSchema—instance " 
xsi:schemaLocation—"http: / 'maven. apache . org/POM/4 .0.0 http: / 'maven. apache . org/xsd/maven—4 . 
(model Version)4 . O . OK/mode1Version) 
Kart fa / a r t fa 
(version)l . OK/ version) 
(pa cka g / pa cka g 
(name en t / name 
(url)http: / 'maven. apache . org(/url) 
(properties) 
(proj ect . build. 4/ proj ect . build. sourceEncoding) 
K/ properties) 
(module oduc t se rv i ce s /module 
(module oduc t /module 
4/ project) 
0.0 .xsd") 

**Child pom**

1)

Machine generated alternative text:
(pro) ect 
ht.: / 'maven. apache . org/ POM/ 
0.0 .xsd") 
xmlns : : / / were,'. w3. org/2001/XMLSchema—instance" 
xsi:schemaLocation—"http: / 'maven. apache . org/POM/4 .0.0 http: / 'maven. apache . org/xsd/maven—4 . 
(mo del V 
(parent) 
. OK/mode1Version) 
Kart fa / a r t fa c t I d 
(version)l . OK/ version) 
K/ parent) 
( a r t f a ct oduct servi ce s / a r t i f a ct 
(pa cka ging)j a r ( / pa cka ging) 
(name)products e / name 
(url)http: / 'maven. apache . org(/url) 
(properties) 
(proj ect . build. 4/ proj ect . build. sourceEncoding) 
K/ properties) 
(bui 1 d) 
(plugins) 
(plugin) 
(groupld)org.apache . maven. plugins(/groupld) 
(a r t i f a ct Id)maven— compi r —plug / a r t i f a ct Id) 
(version)3. E . OK/ version) 
(conf i gurat i on) 
(source)l . E 4/ source) 
(target)l . E 4/ target) 
/ conf a t i on) 
4/ plugin) 
K/ plugins) 
K/ build) 
4/ project) 

**Note: productweb project depend on productservice means it will use class of productservice so**

**We need to define dependency of productservice in productweb pom.xml**

**Note**

Machine generated alternative text:
«context -param» 
ram-name * ContextCon fig Locat i onuparam- name* 
a ram-vat u e »slq"pqth : /beans. xmlc/param- value* 
Ucontext -param» 
i stener- s »org.springframework.web.context , ContextLoade r Li stener«/li stener - 

**Listener will listen all the beans which required and it will see classpath**

**Note: total 6 scope in maven**

Machine generated alternative text:
compile 
runtime 
provided 
test 
system 
import 

**By default : compile time scope**

**Note:- maven allows build portability through profiles (Important point)**

Machine generated alternative text:
tio 9 e 
rofiles 
Portability 
dev 
test 
prod 
Dev 
Server 
Testing 
Server 
Production 
Server 
App 
Databases 
Web Service 

**Note: when we building our application on dev environment maven will pick dev profile**

Machine generated alternative text:
src/main/profiles 
dev 
application.properties 
test 
application.properties 
prod 
application.properties 

**How to activate maven profile**

Machine generated alternative text:
cprofi 
cproperti 
«bui Id . profi le. Id. profi le . id» 
Uproperties» 
«bui Id» 
cresources» 
cresource» 
cd i rec re ctory» 
Uresource» 
1 
Uresource» 
Uprofi 

**Note: -**

1. **Id should be unique**
2. **<build.profile.id> --------- folder name**
3. **<resources> ----------------physical location of the configuration that we want to use**

**profile in action**

**To activate profile: mvn install -pdev**