

**Maven** : Maven is known as build tool.

Build tool is responsible to compile **java program, run java**, creating jar, war or ear etc, it help to download the **external dependencies** like jar file, it help to create the documentation of project.

Jar → collection of .java as well as .class file.

War/Ear → collection of .html, .css, .js, .xml, .java, .jsp etc.

If we develop any java project without build tool we face the problem

To maintain the jar file.

Every tool follow their own project structure.

Eclipse

My Eclipse

Net IDE

Etc

In that IDE you need to create maven project. **Maven** follow global project structure.

So we can create maven project without IDE as well as with IDE.

If we want to run the maven project without IDE we need to set maven path.

And we need to run maven **goal**.

**mvn validate**

**mvn compile**

**mvn clean**

**mvn test**

**mvn deploy**

**mvn package**      creating jar or war file.

Maven

Group id : collection of more than one projects.

Artifact id : actual project name.

Maven use pom.xml file project object model. It is a type of xml file  
Which contains all project configuration details.

We will develop small console base application

Product-management-system

Database

Login -> table → emailid, password, typeofuser -> column in table

PK

Java side

In Java for Login table we need to create **JavaBean class** ie **Login**

Class Login

**Emailed**

**Password**

**Typeofuser** are variable with setter and getter method.

Table = JavaBean class

All column = variable names

**DAO : Data Access Object** : inside dao package we need to create more than one class base upon our requirement and in each class we need to write more than one method which contains jdbc logic to insert, delete, update and retrieve.

LoginDao -→ signIn and signUp

ProductDao → storeProduct, deleteProduct, updateProduct, retrieveProduct

Now we will create utility package which is responsible to create Menu driven option and take value through keyboard.

**com.pms.utility**

**class MenuOption**

now we will create main class inside below

**com.pms.main**

with name **App**