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Apache Maven
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- > Maven is a build automation tool for java projects
- > Maven is a free and open source software
- > Maven developed by Apache organization
- > Maven s/w developed using Java

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What are the main Objectivies of Maven
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- > Simplify build process
- > Uniform Build System
- > Encouraging Best Practises

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What we can do using Maven
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- 1) Create Project Folder Structure
- 2) Download Required Dependencies (Ex: Spring, Hibernate, Kafka, JUnit etc...)
- 3) Project Compilation
- 4) Unit Tests execution
- 5) Project Packaging (jar or war)

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Maven Setup in Windows
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*****Step-1 : Download and Install Java software*****

URL To Download : <https://www.oracle.com/in/java/technologies/javase/javase8-archive-downloads.html>

- > We need to create account in oracle website to download java
- > Login into oracle website and download JDK
- > Install JDK (it will install both jdk and jre)
- > Set JAVA_HOME in Environment Variables

Ex: JAVA_HOME = C:\Program Files\Java\jdk1.8.0_202

- > Set JAVA Path in Environment Variables

Ex: Path = C:\Program Files\Java\jdk1.8.0_202\bin

- > Open command promot and check java version

\$ java -version

***** Step-2 : Download and Setup Maven*****

URL To Download : <https://dlcdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.zip>

-> Download apache maven zip file using above url

-> Extract Zip file

-> Keep apache-maven folder in C drive (it is optional step)

-> Set MAVEN_HOME in System Env Variable

Ex: M2_HOME = C:\apache-maven-3.8.5

-> Set Maven Path in System Env variable

Ex: Path = C:\apache-maven-3.8.5\bin;

-> Open command prompt and check maven version

\$ mvn -version

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Creating Maven Project  
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-> Open command prompt and execute below command

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$ mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
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