**Setting Apache Tomcat in windows:**

Install apache Tomcat: version 7

<https://tomcat.apache.org/download-70.cgi> ==> download .zip

Extract the “apache-tomcat-7.0.103.zip” to appropriate location. I have extracted to this path.

C:\Users\myaseen\Documents\java\_practise\apache-tomcat-7.0.103

Now add the tomcat to path variable:

Go to environment variable in windows and create a new variable and enter below details.

CATALINA\_HOME

C:\Users\myaseen\Documents\java\_practise\apache-tomcat-7.0.103\apache-tomcat-7.0.103

And add it to path variable as well

C:\Users\myaseen\Documents\java\_practise\apache-tomcat-7.0.103\apache-tomcat-7.0.103\bin

Now go to cmd, enter catalina as a command. The prompt will show catalina usage:

**Intro to Apache Tomcat and Web Application:**

By default, apache tomcat will have few web application inbuilt. You can find it in under “webapps” folder

C:\Users\myaseen\Documents\java\_practise\apache-tomcat-7.0.103\apache-tomcat-7.0.103\webapps

For eg: “manager” webapplication is a default application provided by tomcat

Once we develop our web application. We have to copy paste our web application folder into this webapps folder. This is called deploy web application into tomcat

Every web application will have some structure. For example if we look at the default application “manager” web apps. It has folder called “WEB-INF”.

This WEB-INF folder will contain,

* Web.xml
* Jsp(java server pages)
* Java classes

**WAR File:**

War is standard format for web application. WAR is called as Web archive. This WAR file is .zip file.

Instead of .zip, it will be .war

This WAR contains, all folder required for web application such as images, WEB-INF folder, index pages , etc. everything will be zipped and named as .war file

**Maven to create WAR files:**

We can use maven to create a .war files.

**How to start tomcat server:**

In command prompt, type *catalina start* command. This command will launch tomcat server, it can be accessed via *localhost:8080*

**How to access tomcat manager application and how to configure user to access manager application:**

By default, tomcat has *manager* web application. Which can be used to configure other web application used in tomcat.

We can access tomcat manager web application using this url.

*Localhost:8080/manager/html*

But, to access this manager, we need to create a user in tomcat-user file. Which is located at

C:\Users\myaseen\Documents\java\_practise\apache-tomcat-7.0.103\apache-tomcat-7.0.103\conf

<role rolename="manager-gui"/>

<user username="admin" password="admin" roles="manager-gui"/>

Just restart the server, and access the url *Localhost:8080/manager/html*

With username and password.

**Use Maven to deploy web application:**

We need to add tomcat plugin in POM.XML file. Then maven will deploy webapplication to tomcat

<plugin>

<groupId>org.apache.tomcat.maven</groupId>

<artifactId>tomcat7-maven-plugin</artifactId>

<version>2.3-SNAPSHOT</version>

<configuration>

<url>[http://localhost:8080/manager/text</url](http://localhost:8080/manager/text%3c/url)>

<username> [admin-script </ username](http://www.mydomain.com:1234/mymanager%3c/url) >

<password> admin </ [password](http://www.mydomain.com:1234/mymanager%3c/url) >

</configuration>

</plugin>

**Create a WebApp project in Eclipse using Maven:**

Eclipse IDE -> File -> Project -> choose archtype as “maven-archtype-webapp”.

Enter groupID, artificatID, version. Click Finish.

POM.xml file will be created with package type as *war* .

Now we need to add tomcat plugin to pom.xml file inside build tag.

