## Lab 3 – Create a Basic Servlet: Overview

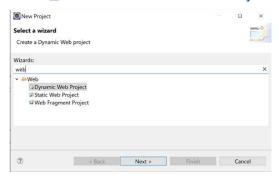
We will create a Web application that uses a servlet

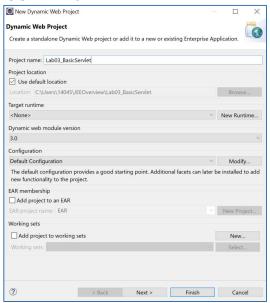
## To get there the first time will require a number of setup steps

- After this lab, will be much less extensive
- With a little care and patience, it should be pretty easy

This can be done as a group with the instructor leading

- Launch Eclipse, selecting a default workspace
- Create a new Dynamic Web Project
  - Use the menu bar to select a new project (Files>New>Project...)
  - Search for Dynamic Web Project in the search bar, select the Dynamic Web Project and then "Next >"
  - Enter "Lab03\_BasicServlet as the Project Name and then select "Finish >" 1

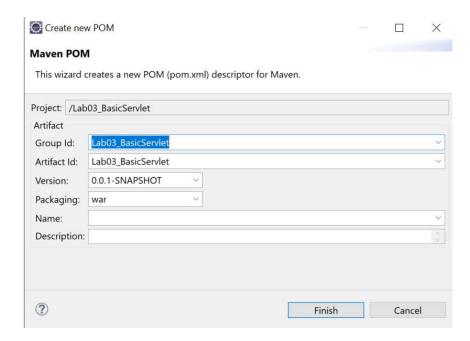




 Open the EE perspective if prompted (otherwise select Window>Perspective>Open Perspective>Java EE to open the EE perspective)

## Convert the project to a Maven project

- Within the Project Explorer, configure the project as a Maven project (right click on the project> Configure>Convert to Maven Project)
- · Within the Create new POM window, select Finish to convert the project



## Add the Servlet API maven dependency to the pom.xml file

Open the pom.xml file and add the following (immediately before the Build tag):

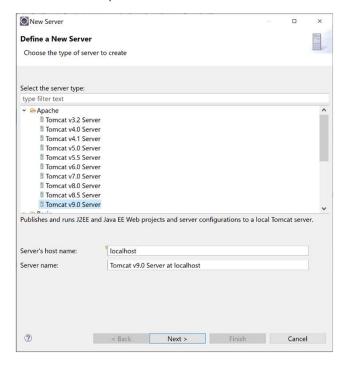
- Save the pom.xml file
- Update the Maven Project
  - ✓ Within the Explorer window, right click on the project > Maven > Update Project

#### Add a Server

• Within the server tab, click on "Click this link to create a new server..." (if this window isn't visible, then use the menu bar to make it visible Window>Show Window>Servers...

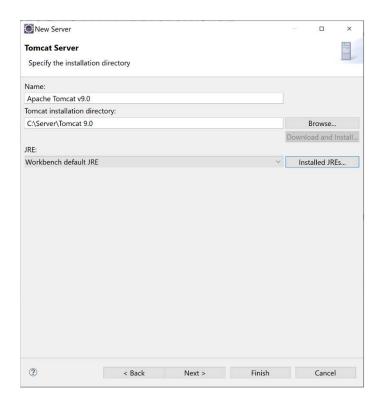


Within the New Server window, select Apache>Tome v9.0 Server and then select "Next >"



## Add a Server

- Within the New Server window, use Browse... to locate and set the Tomcat Installation directory <sup>1</sup>
- Select "Finish" to create the Tomcat Server

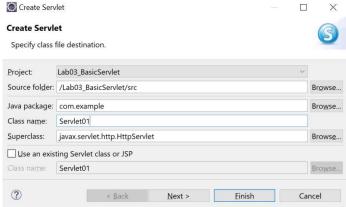


### Create a Servlet

• Within the Project Explorer right click on the Java Resources, select New>Servlet



• Within the Create Servlet window enter a Java package name of "com.example", enter a Class name of "Servlet01", and then select "Finish"

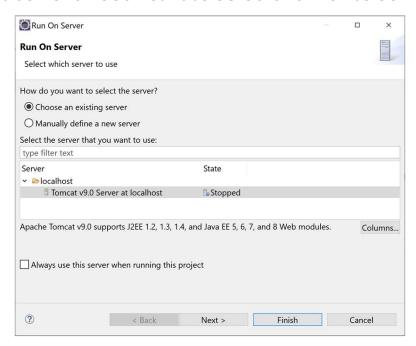


#### Use an external Web Browser

 On the menu bar select Window>Web Browser > Chrome if it exists or anything other than Internal Web Browser <sup>1</sup>

### Run the Servlet on Tomcat

- Within the Project Explorer window, right click on the Servlet01.java file and select Run> Run As > Run on Server
- Confirm that Tomcat v9.0 Server at localhost is selected and then select "Finish"



Confirm that something similar to the following is displayed in an external Web Browser





Served at: /Lab03\_BasicServlet

