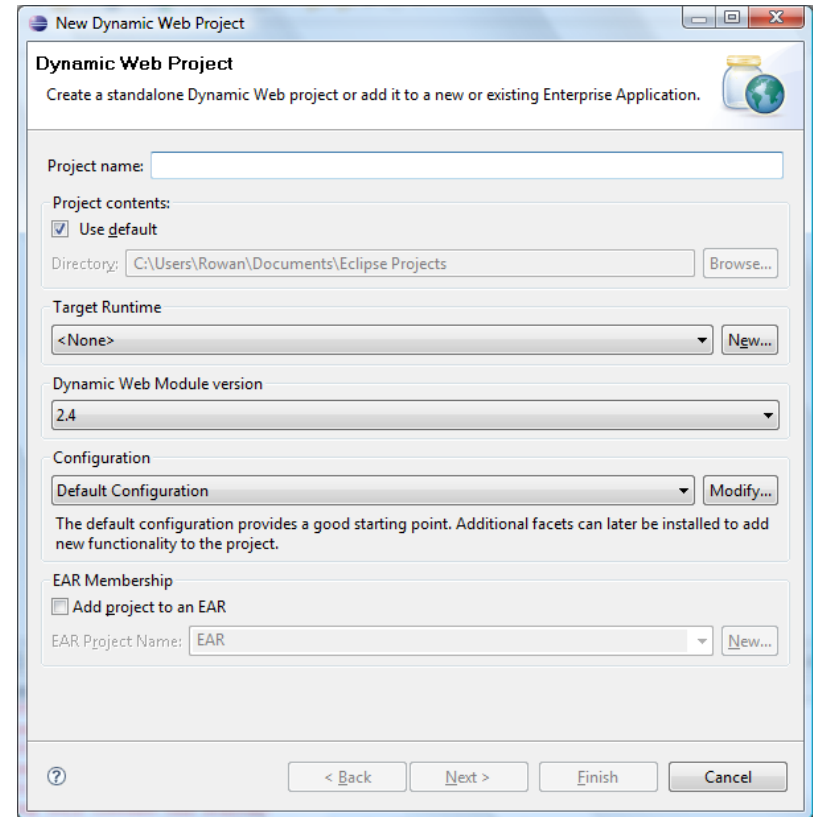


Web Applications in Eclipse

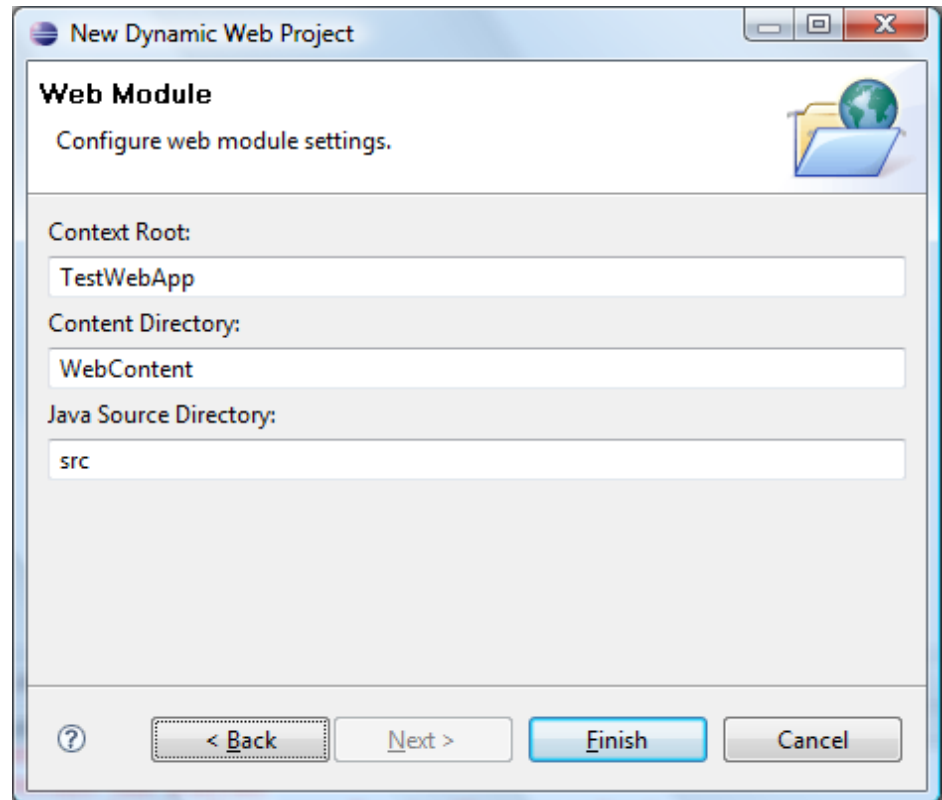
Dynamic Web Project Wizard

- ▶ This wizard will create a web app in Eclipse, which can be automatically deployed to a server



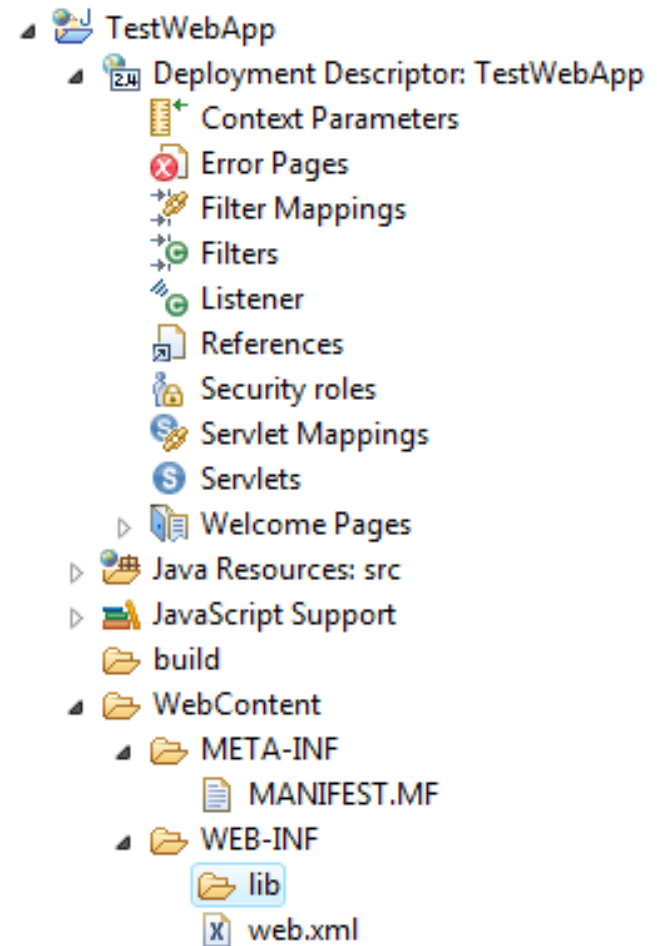
Dynamic Web Project Wizard

The context root is the base url for the web app on the server, e.g.
localhost:8080/TestWebApp



Dynamic Web Project Wizard

- ▶ The wizard automatically creates a suitable folder structure and a deployment descriptor



Servlet Wizard: Page 1

- ▶ Here we can specify the name and package of the servlet class

Create Servlet

Specify class file destination.

Web project: TestWebApp

Source folder: \\TestWebApp\\src [Browse...](#)

Java package: [Browse...](#)

Class name: TestServlet

Superclass: javax.servlet.http.HttpServlet [Browse...](#)

☐ Use an existing Servlet class or JSP

Class name: TestServlet [Browse...](#)

[? < Back](#) [Next >](#) [Finish](#) [Cancel](#)

Servlet Wizard: Page 2

- ▶ Here we can specify the URL mapping for the servlet

Create Servlet

Enter servlet deployment descriptor specific information.

Name: TestServlet

Initialization Parameters:

Name	Value	Description

Add... Edit...

URL Mappings:

/TestServlet

Add... Edit...

< Back Next > Finish Cancel

Servlet Wizard: Page 3

- ▶ Here we can add stubs for the commonly used servlet methods, namely:

- doGet
- doPost
- init
- destroy
- service

Create Servlet

Specify modifiers, interfaces, and method stubs to generate.

Modifiers: ☒ Public ☐ Abstract ☐ Final

Interfaces: Add... Remove

Which method stubs would you like to create?

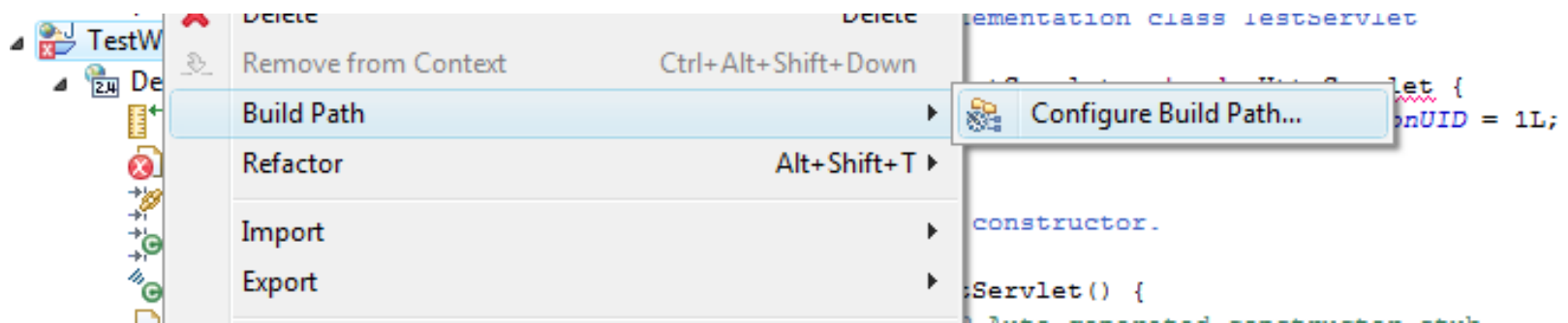
☒ Constructors from superclass
☒ Inherited abstract methods

<input type="checkbox"/> init	<input type="checkbox"/> destroy	<input type="checkbox"/> getServletConfig
<input type="checkbox"/> getServletInfo	<input type="checkbox"/> service	<input checked="" type="checkbox"/> doGet
<input checked="" type="checkbox"/> doPost	<input type="checkbox"/> doPut	<input type="checkbox"/> doDelete
<input type="checkbox"/> doHead	<input type="checkbox"/> doOptions	<input type="checkbox"/> doTrace

? < Back Next > Finish Cancel

The Servlet API

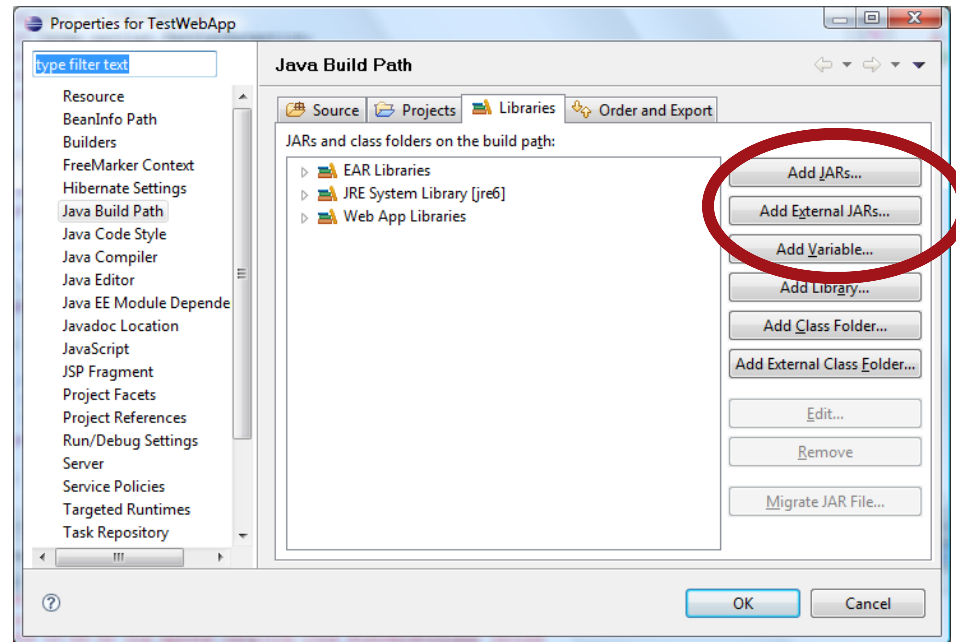
- ▶ The Java Servlet API uses the `javax.servlet.*` namespace
- ▶ It is not part of the standard Java JDK, so has to be added as an external JAR
- ▶ It is added to the *build path* as follows...



The Servlet API

- ▶ The servlet API JAR is vendor specific,

i.e. a J2EE server such as Tomcat provides its own servlet API JAR

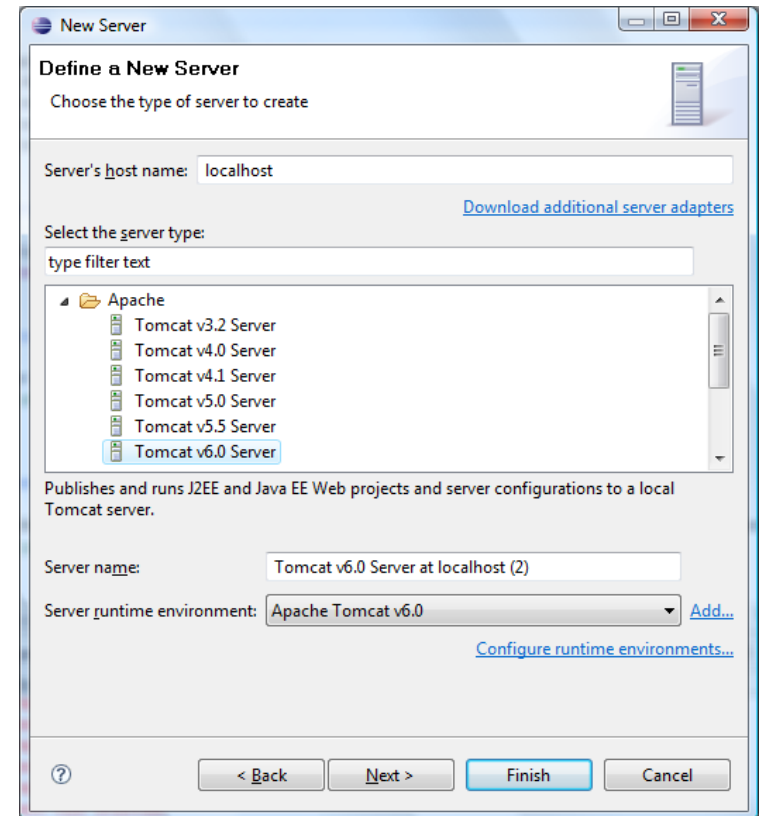


- ▶ Browse for

<tomcat home>/lib/servlet-api.jar

Running a Web App

- ▶ Eclipse can automatically deploy a web app to a J2EE server
- ▶ Choose *"Run on Server"* and Eclipse will display the *New Server* wizard
- ▶ Here you can add your Tomcat installation as a server configuration



WAR Files

- ▶ Eclipse can easily generate a WAR file from a web project...

