

# Setting up a Java EE Project in Eclipse with Tomcat

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# Agenda



Quick overview of the structure of a Java EE application

How to connect Eclipse to a Tomcat instance

Create a Java EE Maven project

Run in with Tomcat, debug it

Use Maven to package the web application



# Overview of Java EE Applications

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Java EE application?

Typically a web application

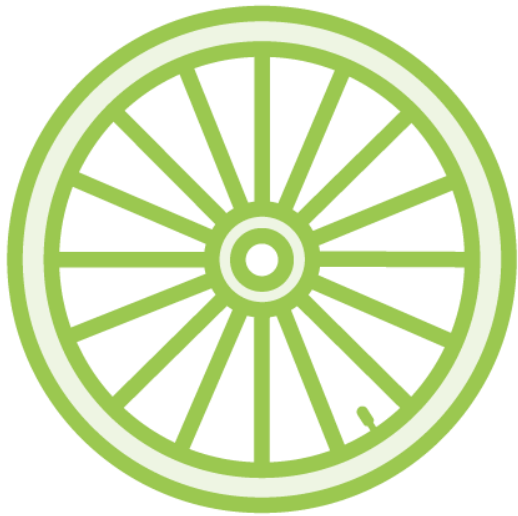
It has

- a set of classes, servlets, WS, RS
- some static resources (HTML, CSS, JPEG)
- some dynamic pages (JSP)
- some JavaScript files
- metadata in XML descriptors
- and more...



Eclipse supports all that  
It has a special Java EE project  
And can support it through Maven





Java EE applications are not standalone  
They run in an application server  
Tomcat, Glassfish, JBoss, Weblogic, ...  
Eclipse needs to connect to those servers



# Connecting Eclipse to Tomcat

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Eclipse needs a plugin for each application server, sometimes for each version

Sometimes the plugin needs to be downloaded from the Marketplace

Once this is done, a connection to a server instance must be established





# Eclipse / Application Server Organization



Workspace



.metadata



Project 1



# Demo



Let us create, deploy and run a Webapp!

We will be using Tomcat

Other application servers might differ,  
but not too much



# Module Wrap Up



What did you learn?

Eclipse configuration to interact with Tomcat

How use the GUI to create the elements of a web application

How to launch it and debug it

How to package using Maven



# Course Wrap Up



## Eclipse for Java developers

### The most useful tasks:

- configure a Java project
- create a project with Maven
- use Git for source control management
- interact with databases
- create, debug and package web applications



# Course Wrap Up



# Thank you!

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