

Developing a Hello World Web application

[Accessing JMS in Web applications](#)

[Developing Web applications](#)

[Developing JavaServer faces applications](#)

This application is a simple Hello World application which will output **Hello World!!** on the browser. It needs a dynamic Web project and a JSP associated with it.

To run this tutorial, as a minimum you will be required to have installed the following prerequisite software:

1. Sun JDK 6.0+ (J2SE 1.6)
2. Eclipse IDE for Java EE Developers, which is platform specific
3. Apache Geronimo Eclipse Plugin 2.1.x
4. Apache Geronimo Server 2.1.x



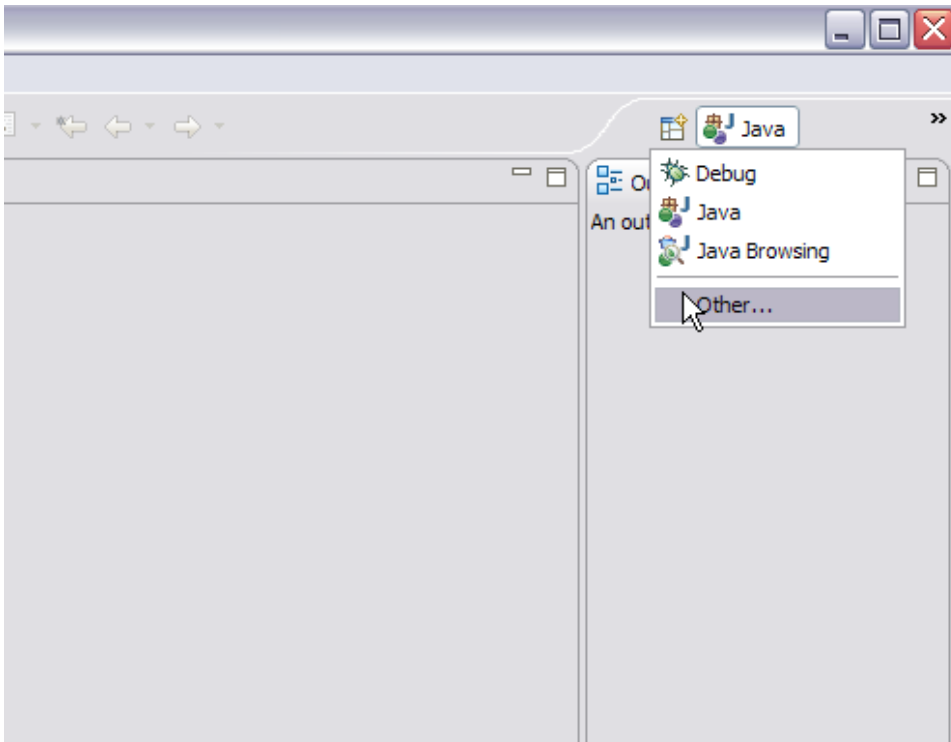
Geronimo version 2.1.x, Java 1.5 runtime, and Eclipse Ganymede are used in this tutorial but other versions can be used instead (e.g., Geronimo version 2.2, Java 1.6, Eclipse Europa)

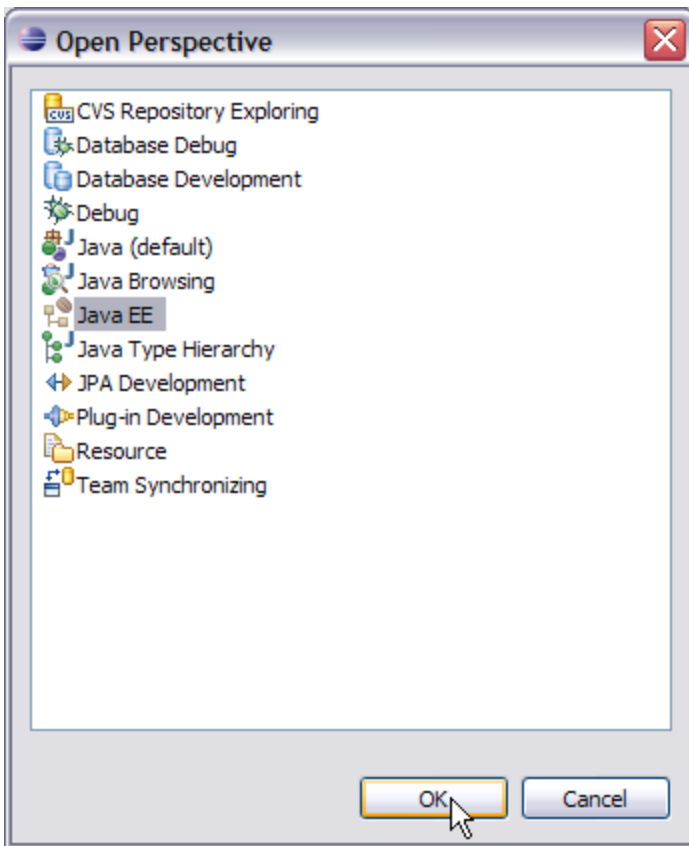
Details on installing eclipse are provided in the [Development environment](#) section. This tutorial is organized in the following sections:

- [Creating a dynamic Web project using Eclipse](#)
- [Adding a JSP to the project](#)
- [Making hello.jsp the welcome file](#)
- [Run and deploy](#)

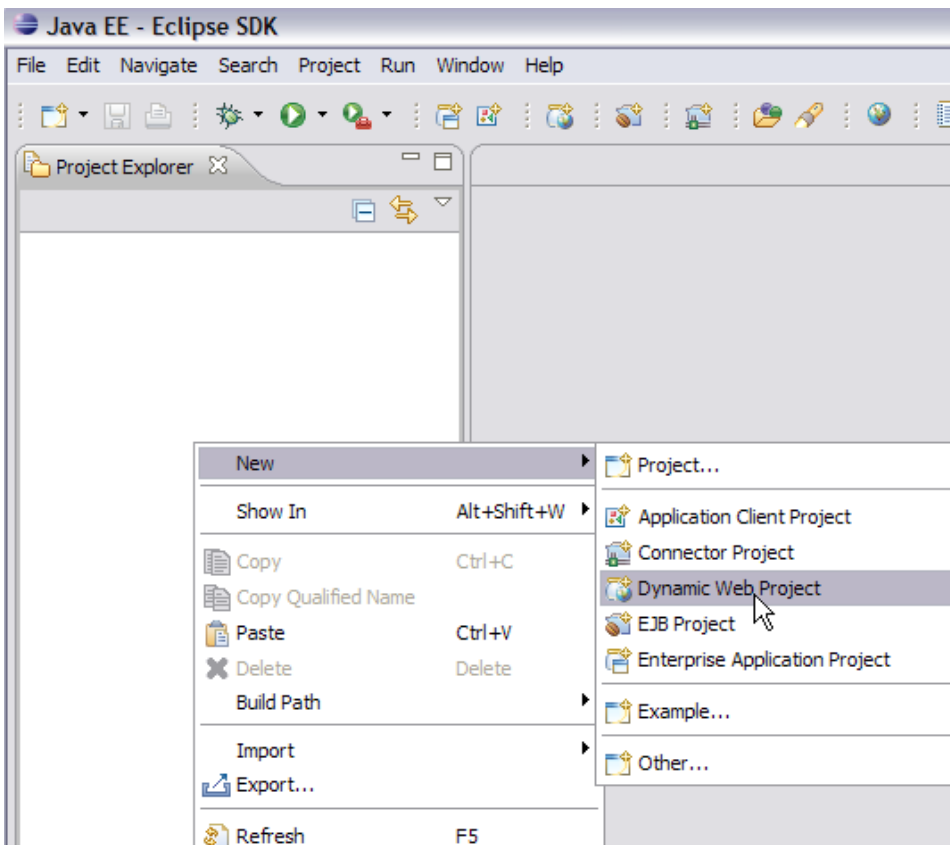
Creating a dynamic Web project using Eclipse

1. Launch Eclipse and Switch to *Java EE* perspective.

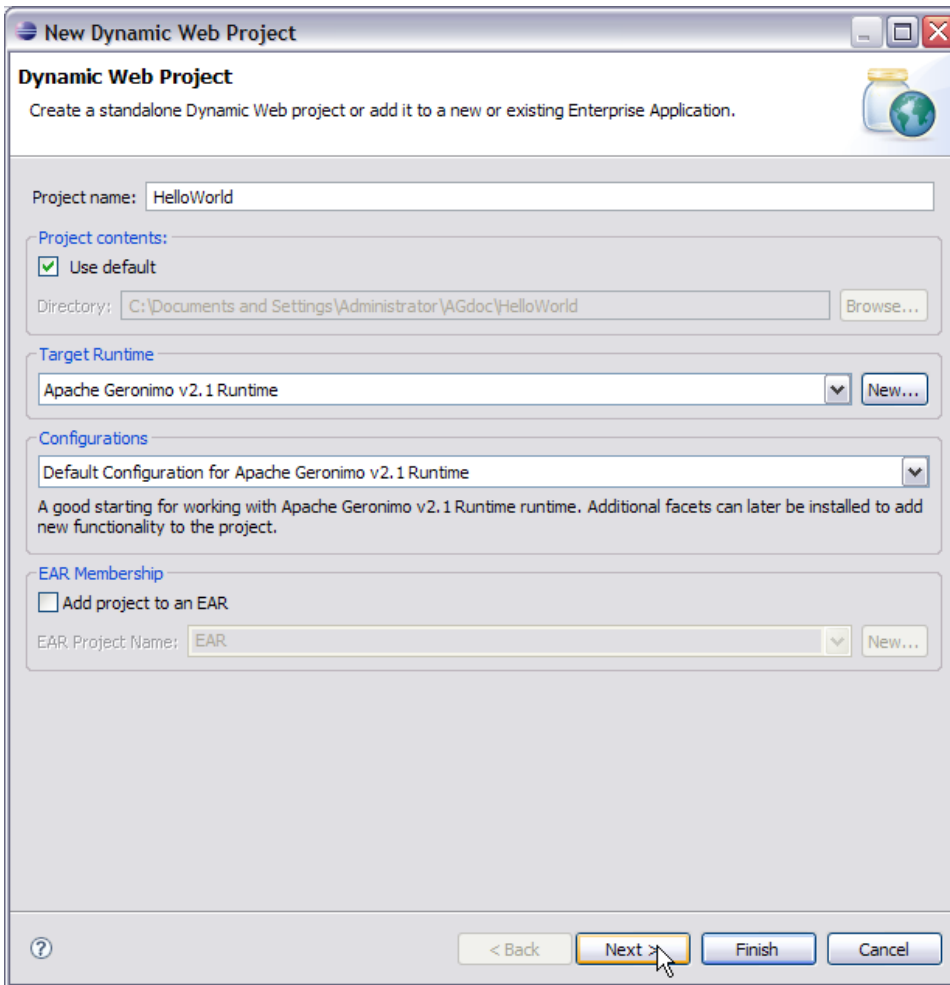




2. Right click under the project explorer and select **Dynamic Web Project** as shown in the figure



3. Name the project as *HelloWorld*.



New Dynamic Web Project

Dynamic Web Project
Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.

Project name: HelloWorld

Project contents:
☒ Use default
Directory: C:\Documents and Settings\Administrator\AGdoc\HelloWorld [Browse...](#)

Target Runtime
Apache Geronimo v2.1 Runtime [New...](#)

Configurations
Default Configuration for Apache Geronimo v2.1 Runtime
A good starting for working with Apache Geronimo v2.1 Runtime runtime. Additional facets can later be installed to add new functionality to the project.

EAR Membership
☐ Add project to an EAR
EAR Project Name: EAR [New...](#)

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

4. Keep default values for all the fields and select **Finish**.

New Dynamic Web Project

Geronimo Deployment Plan
Configure the geronimo deployment plan.

Group Id: default

Artifact Id:

Version: 1.0

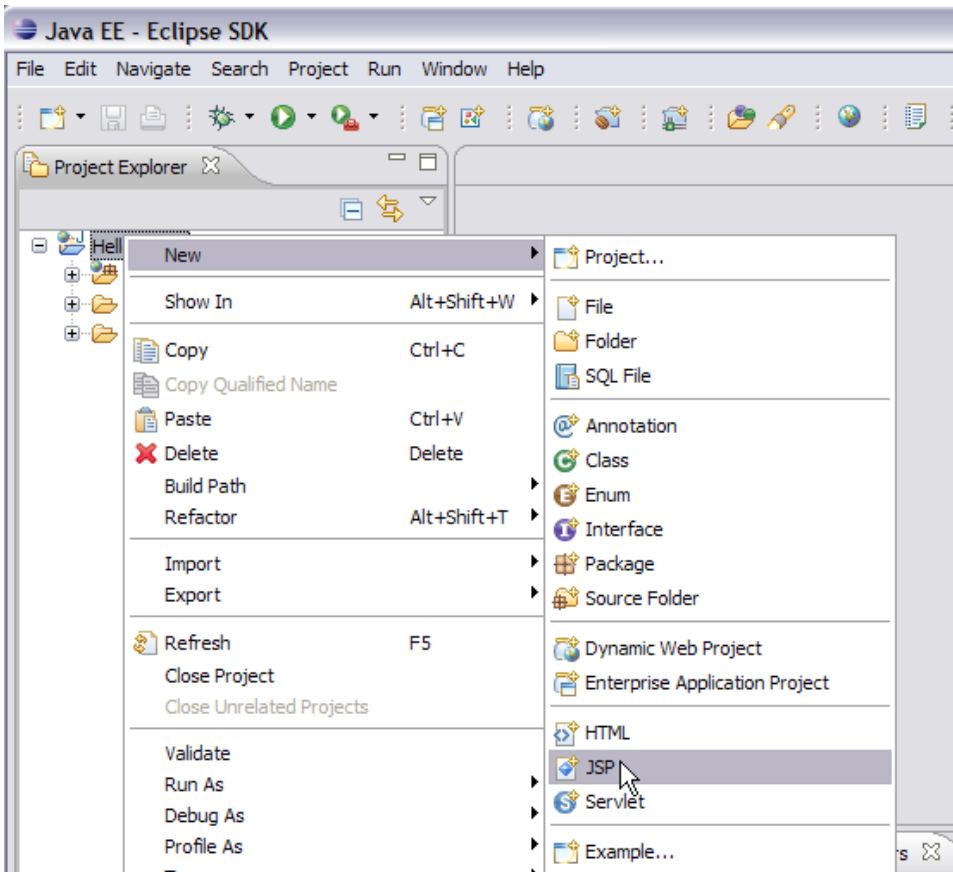
Artifact Type: car

☐ Add a runtime dependency to Geronimo's shared library

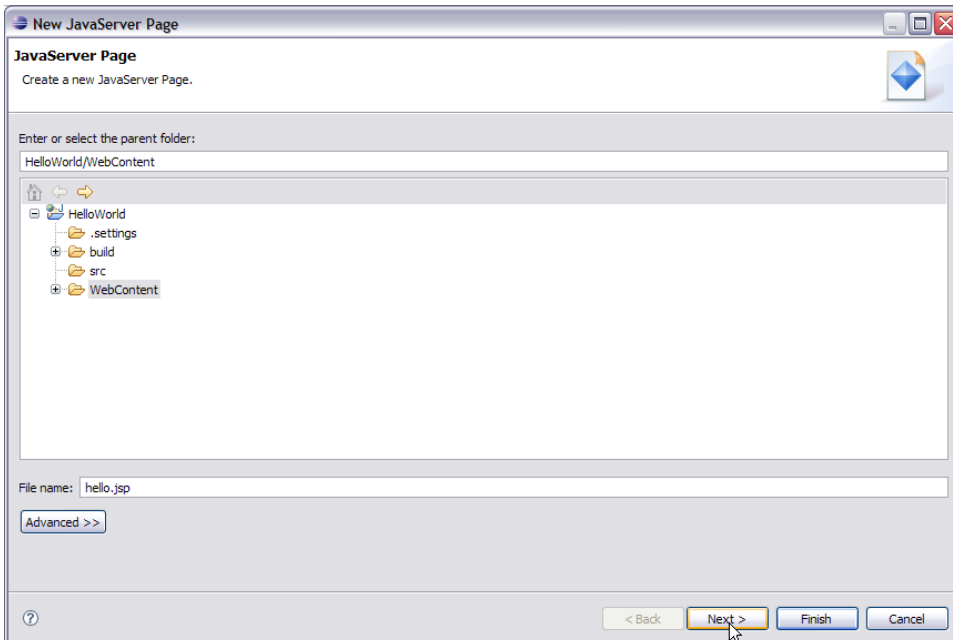
? < Back Next > Finish Cancel

Adding a JSP to the project

1. Right-click on the project **HelloWorld** and create a new JSP as shown in the figure.



2. Give the name as **hello.jsp** and select **Next**. Select **Finish** on the next screen



3. Modify the code of `hello.jsp` as follows:

hello.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Hello World</title>
</head>
<body>
Hello World!!
</body>
</html>
```

Making hello.jsp the welcome file

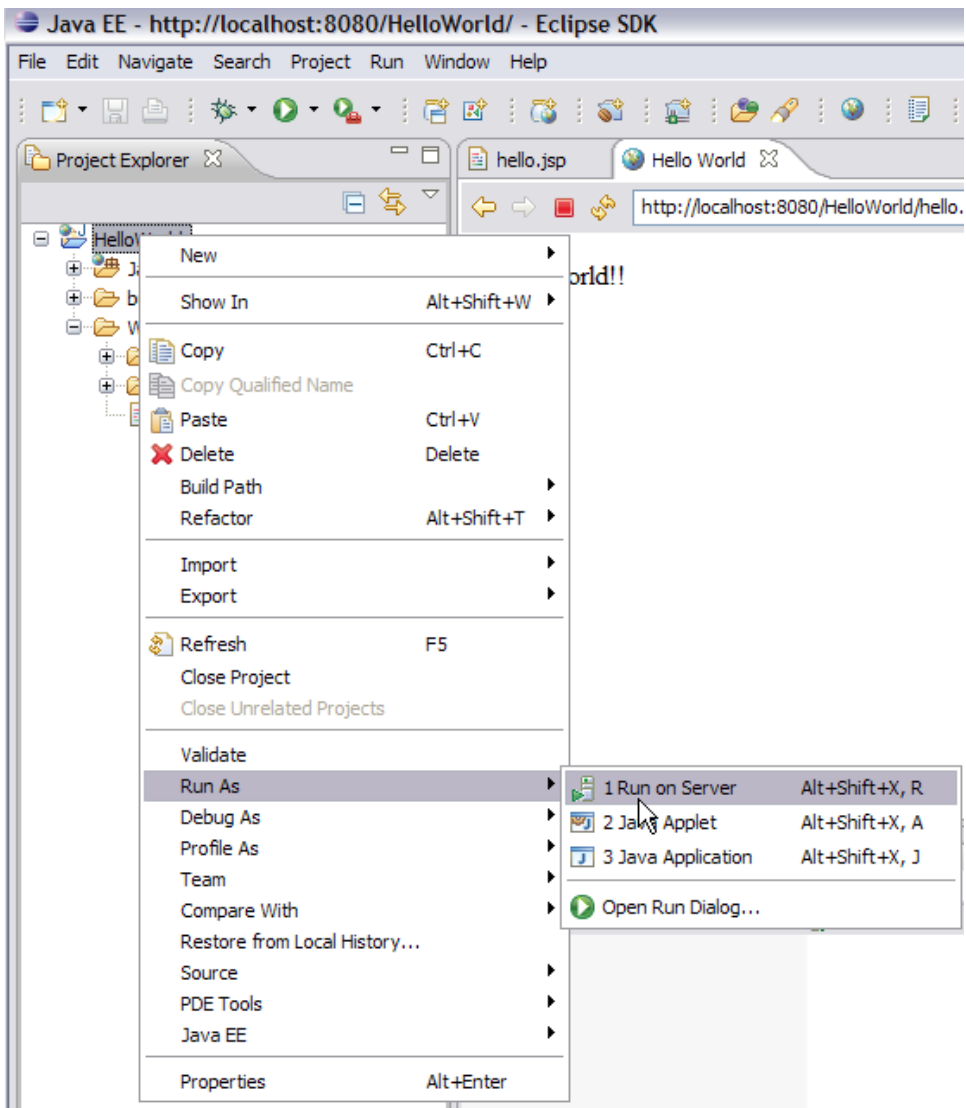
1. Click **WebContent** -> **WEB-INF** and open web.xml.
2. Add hello.jsp as a welcome file under the <welcome-file-list> tag:

web.xml

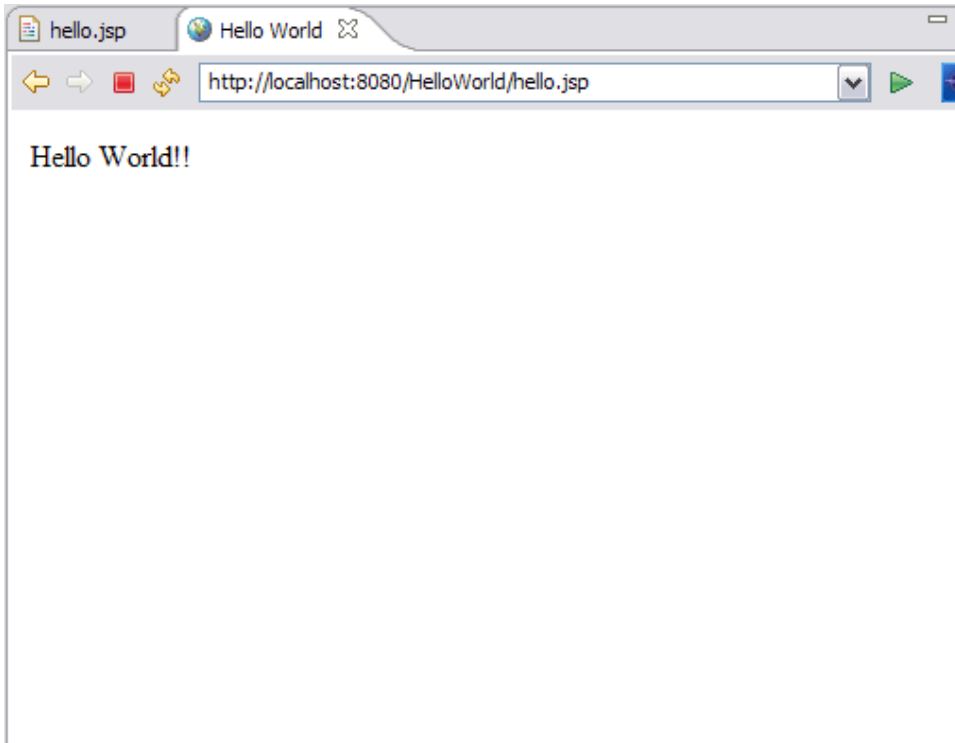
```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-
app_2_5.xsd" id="WebApp_ID" version="2.5">
    <display-name>HelloWorld</display-name>
    <welcome-file-list>
        <welcome-file>hello.jsp</welcome-file>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
</web-app>
```

Run and deploy

1. Deploy the application on the server.



2. launch the application using <http://localhost:8080/HelloWorld/hello.jsp>



3. This will display **HelloWorld!!** on the browser window.