# **Developing a Hello World Web application**

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Accessing JMS in Web applications
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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

A Geronimo version 2.1.x, Java 1.5 runtime, and Eclipse Ganymede are used is 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 hellp.jsp the welcome file
- Run and deploy

#### Creating a dynamic Web project using Eclipse

1. Launch Eclipse and Switch to Java EE perspective.

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	Other



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	_ 🗆 🔀				
<b>Dynamic Web Project</b> Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.					
Project name: HelloWorld					
Project contents:					
Directory: C:\Documents and Settings\Administrator\AGdoc\HelloWorld	Browse				
Apache Geronimo v2.1 Runtime	✓ New				
Configurations Default Configuration for Apache Geronimo v2.1 Runtime	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					
EAR Project Name: EAR	✓ New				
C Back Next > F	inish Cancel				

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

👄 New Dynamic Web Project 📃 🗌 🔀				
Geronimo Deployment Plan				
Configure the	Configure the geronimo deployment plan.			
Group Id:	default			
Artifact Id:				
Version:	1.0			
Artifact Type:	car			
Add a runtin	ne dependency to Geronimo's shared library			
?	<back next=""> Finish</back>	Cancel		

## Adding a JSP to the project

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

Java EE - Eclipse SDK			
File Edit Navigate Search Project Run	Window Help		
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Project Explorer 🛛	<u> </u>		
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Show In	Alt+Shift+W	File	
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Import	► #	Package	
Export	<b>•</b>	Source Folder	-
🔊 Refresh	F5 📸	Dynamic Web Project	
Close Project	6	Enterprise Application Project	
Close Unrelated Projects		HTMI	
Validate		ISPIN	
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-		Example	's 🕮 🔪

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

New JavaServer Page	
JavaServer Page Create a new JavaServer Page.	
Enter or select the parent folder:	
HelloWorld/WebContent	
<ul> <li>A constraint of the settings</li> <li>A constraint of the se</li></ul>	
File name: hello.jsp	
Advanced >>)	
Ō	< Back Next > Finish Cancel

**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>
<html>
<html>
<html>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Hello World</title>
</head>
<body>
Hello World</title>
</body>
Hello World!!
</body>
</html>
```

### Making hellp.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"</pre>
         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>HellowWorld</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.