

COPENHAGEN BUSINESS ACADEMY



Cphbusiness

Introduction to Java Server Pages(JSP)

- Extension of Java Servlets
- Used for developing dynamic web contents
 - Collecting information via forms
 - Communicating with database (insert, delete, update,select)
 - Communicating between pages
 - E-mail service
 - File management

Introduction to Java Server Pages(JSP)

- Server side scripting language
- .jsp
- Mixture of HTML and Java code

JSP Declarations (variables)

- Use `<%!` To make a declaration.

EXAMPLE:

```
<%! int day = 3; %>
<html>
<head><title>IF...ELSE Example</title></head>
<body>
<% if (day == 1 | day == 7) { %>
    <p> Today is weekend</p>
<% } else { %>
    <p> Today is not weekend</p>
<% } %>
</body>
</html>
```

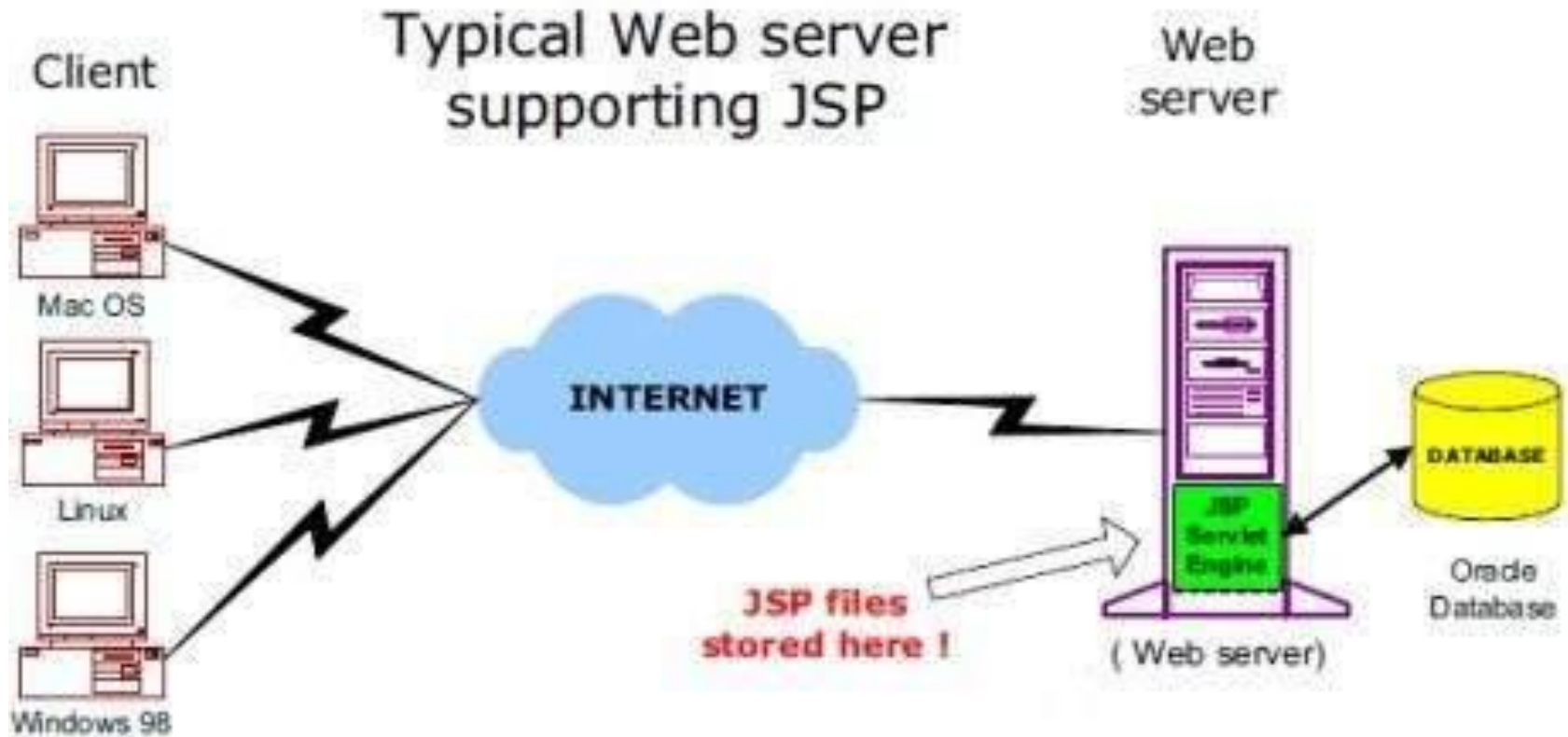
Declaring a variable to be used in the entire page:

```
<%! int i = 0; %>
```

Java Server Pages(JSP) Architecture

- JSP container and servlet engine
- JSP container is responsible for intercepting requests from JSP pages
- Webservers you will use have built in JSP container and servlet engine

JSP Architecture



Implicit objects

JSP supports nine automatically defined variables, which are also called implicit objects. They are always available and are are:

Objects	Description
request	This is the HttpServletRequest object associated with the request.
response	This is the HttpServletResponse object associated with the response to the client.
out	This is the PrintWriter object used to send output to the client.
session	This is the HttpSession object associated with the request.
application	This is the ServletContext object associated with application context.
config	This is the ServletConfig object associated with the page.
pageContext	This encapsulates use of server-specific features like higher performance JspWriters .
page	This is simply a synonym for this , and is used to call the methods defined by the translated servlet class.
Exception	The Exception object allows the exception data to be accessed by designated JSP.

JSP Comments

- Use this syntax to make comments:

Syntax	Purpose
<code><%-- comment --%></code>	A JSP comment. Ignored by the JSP engine.
<code><!-- comment --></code>	An HTML comment. Ignored by the browser.

Loop

- Use standard Java inside `<%` to make a for loop:

```
<%! int fontSize; %>
<html>
<head><title>FOR LOOP Example</title></head>
<body>
  <%for ( fontSize = 1; fontSize <= 3; fontSize++){ %>
    <font color="green" size="<%= fontSize %>">
      JSP Tutorial
    </font><br />
  <%}%>
</body>
</html>
```

result

```
JSP Tutorial
JSP Tutorial
JSP Tutorial
```