

## JSP Life Cycle -----

\_jspinit

\_jspservice is called many times depending on the request

\_jspdestroy

## JSP notations

<% %>	scriptlet	We write java code	It is copied directly in the _jspservice method of the servlet
<%= %>	Output expression	We write a variable name or a method call that returns a value	It is copied in the out.write() in the _jspservice method of the servlet
<%! %>	Initialization expression	Properties or method definition	This is copied directly in the servlet class

## Inbuilt - **IMPLICIT** objects that are available in JSP

	request	HttpServletRequest
	response	HttpServletResponse
	session	HttpSession
	application	ServletContext
	out	response.getWriter()
	exception	exception occurred when the page runs
	pageContext	to store page level data

Exercise --- write a JSP that shows total hit count and user wise hit count from 3 browsers

## JSP Directives --- <%@ %>

1.	1	Page directive	Different settings that can be added to internal servlet
		attributes of page directive	import , session , isErrorPage , contentType,.....
	2	Include directive	To include another page in the current page , REUSE of the page
	3	Taglib directive	To create custom(user defined ) tags

Exercise - Write a JSP that shows today's date .

Exercise ---- Write a JSP that accepts ---- id , name and cost and inserts the record in the database

**Error Handling** ---- We do not want to show the technical errors on the browser, because end user is a non technical person.

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If a page part is needed in every page of the application  
So the page part should be written in a separate jsp  
That JSP can be included in all the pages.

**Advantage - Reuse of page part , single point changes!!!! --- we do using include directive**

Exercise ----- LOGO .jsp

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JSP actions -----

<jsp:forward>	Forward action
<jsp:include>	Include action
<jsp:param>	Param action

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EL = Expression Language !!! Short hand notation to access data in JSP

`${}`

SCOPES ----- of the variables

page  
Request  
Session  
Application

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Please install STS IDE = <https://spring.io/tools>

