Backend and Database Development

13 classes

Day 10 : May 15 2024

Java Technologies

JSP : Java Server Pages. JSP is tag base interpreter object oriented server side scripting language.

JSP provide lot of pre defined tags which help to create dynamic web page on server side.

JSP tags

1. Scripting tag
   1. Scriptlet tag

<% opening tag

Java coding or the code which we write inside a method ie doGet or doPost

%> closing tag

* 1. Declarative tag :

<%! Opening tag

Variable declaration or object creation or the code which we write outside a method but inside a class.

%>

* 1. Expression tag :

<%= expression %>

<%=10+20 %>

<%=sum %>

1. Implicit object
   1. out : out is like PrintWriter class object. In Servlet we need to create the object using respose.getWriter() and we can write any name for that object as pw or obj etc. But in JSP the object name must out. This out is not equal to System.out.prinlnt();
   2. request : request is an implicit object of type HttpServletRequest interface. In doGet or doPost we can change the reference from request to req or obj1. But in JSP the object name must be request we can’t change.
   3. response : response is an implicit object of type HttpServletResponse interface. In doGet or doPost we can change the reference from response to res or obj2. But in jsp the object name must be response we can’t change.
2. Action tags
   1. jsp:include
   2. jsp:forward
3. Directive tags

There are 3 types of directive tags

All directive tags start with pre-fix <% @ page/taglib/include %>

* 1. page directive tags
     1. language = “java” inside scriplet tag <% %> which language it support ie java.
     2. contentType=”text/html” it is equal to response.setContentType(“text/html”);
     3. import=”java.sql.\*” or import=”java.util.\*” if we want to create any pre defined class object inside scriptlet then we need to import the package.
  2. include directive tags

this include is use to include static page.

Jsp action include is use to include dynamic page.

* 1. taglib directive tags

1. JSTL tags

JSP Life cycle : whenever we run the jsp page on browser internally it convert to servlet. And then it start servlet life cycle like init, service and destroy methods.

So In action jsp include both page executed separately and result get include. It included at dynamic time.

But in directive include first both the page included and then it convet to servlet and execute. It included at static time

JSP doesn’t provide nested tags concept.

Login example using jsp pages.