**Course 2 - Backend and Database Development**

**JSP :** Java Server Pages : JSP is a tag base as well as object based server side scripting language which help to create dynamic web page on server side.

Limitation of servlet.

1. Servlet is normal java program if we do any change in servlet application we need to re-compile, re-deploy the application once again on server.
2. If we want to write any html code or presentation logic inside a servlet. We need to write pw.println(“<h2>Welcome to Servlet</h2>”)
3. If we want to display simple message through servlet program. We need to create normal java class that class must be extends or implements type of servlet. Then we need to override life cycle method. then we need to create print writer class object and display the message.

**JST tags**

1. Scripting tags
   1. Scriptlet tag

Syntax

**<%** opening tag

Java code or the code which we write inside doGet or doPost

**%>** closing tag

index.jsp

<%

System.out.println(“Welcome to JSP”);

out.println(“Welcome to JSP”);

int a=10;

int b=20;

int sum = a+b;

out.println(“Sum of two number is ”+sum);

%>

* 1. Declarative tag

<%! Opening tag

Variable declaration or object creation.

%>

* 1. Expression tag :

<%= opening tag

Expression or variablename

%> closing tag

1. Implicit object
   1. out : out is like a PrintWriter class object.
   2. request : request is a reference or object of HttpServletRequest interface.
   3. response : response is a reference of or object of HttpServletResponse interface.
2. Directive tags : JPS provided 3 types of directive tags ie page, include and taglib directive. All directive tags start with pre-fix as

<%@ page/include/taglib opening tag

%> closing tag

* 1. Page directive : this tags contains lot of property as
     1. language : inside scriptlet tag code using language ie java.
     2. contentType =”text/html”. This code is equal to response.setContentType(“text/html”);
     3. import : it is use to import pre defined or user defined packages.
  2. Include directive : it is use to include static web page to current page.

1. Action tags : JSP provided set of action tag which help to do different type of operation. All jsp action tags start with pre-fix jsp followed by tag name
   1. Jsp:include
   2. Jsp:forward
2. JSTL tags (Java or JSP Standard Tag Library )

**index.jsp or login.jsp**

Form action=”Check.jsp” method=”post”

Emailid :

Password :

Check.jsp

<%!String emailid,password;%>

<%

emailid = request.getParmeter(“emailid”);

password = request.getParameter(“password”);

if condition if correct successfully login or failure try once again.

%>