**Day 18:**

**Limitation of Servlet:**

1. Servlet is normal java program if we do any changes in Servlet application we need to re-compile and re-deploy the application on server.
2. If we want to write any html code or presentation logic inside servlet program is more complex.
3. If want to display simple or static web message using servlet more complex. We need to create normal java class that class implements or extends type of servlet. Then override methods and provide the servlet configuration details using xml file or using annotation. Create the PrintWriter class object and display the message.

JSP : Java Server pages : JSP is server side tag base scripting language which help to create dynamic web page on server side.

Jsp provided lot of pre defined tags

1. Scripting tag
   1. Scriptlet tag

Syntax

<% opening tag

Java coding or the code which we write inside a method

%> closing tag

* 1. Declarative tag

<%**!** Opening tag

We can declare the variable or object creation.

%> closing tag

* 1. Expression tag

<%= opening tag

%> closing tag

<%=10+20%>

<%=sum%>

1. Implicit object
   1. out : out is PrintWriter class object.
   2. request : request is equal to HttpServletRequest object.
   3. response : response is equal to HttpSevletResponse object.
2. Directive tag
   1. Page
   2. Include
   3. Taglib
3. Action tag
   1. Jsp include
   2. Jsp forward
4. Jstl tag

Limitation of JSP

1. JSP is a type of servlet. When we run the JSP page on server internally it converts to servlet. This phase is known as page translation.
2. If we write any business logic simple or complex or JDBC logic. JSP is not secure.
3. In JSP we can do re-usability of particular logic.

MVC : Model View Controller

View -🡪 can html or jsp page. (console base replace by browser base)

Controller -🡪 Servlet (main class replace by Controller)

Model layer 🡪 Java Bean 🡨🡪 map to table

Service class business logic

Dao class jdbc logic

Resource class database connection

Creating MVC style project using Servlet and JSP Application.

**PMSUsingMVC**

Create table product(pid int primary key,pname varchar(30), price float);