**Day 3- Servlet and JSP - 14-10-2019**

**MVC : Model View Controller**

**Store Employee Details and Same page display employee details in table formats using MVC DAO layer using Jdbc or hibernate or jpa.**

**MVC : Model View Controller**

**View ---> Presentation Logic --->HTML/CSS/JavaScript/JSP**

**Controller ---> Servlet**

**Model ----> Normal Java classes**

**JavaBean class Normal Java classes**

**1. scripting tags**

**2. directive tags**

**a. page**

**b. include**

**c. taglib**

**3. implicit objects**

**4. action tags**

**5. jstl tags**

**6. custom tags**

**Session Tracking : Session is a collection of http request and response within a particular period of a time.**

**By default http is stateless protocol.**

**By default every web application default session time is 3 min.**

**1. cookies : Cookies is a small text file created by server when client send first request to server. That file store on client side. That file contains lot of information in the form of key-value pairs.**

**a. sessionId**

**b. cookies file path**

**c. life of the cookies**

**etc**

**---->1st req------>**

**-----2nd req + sessionId----->**

**----nth req------>**

**Client Server**

**<----1st res +cookies ----**

**Demo1.java 1st Write cookies**

**Cookies cc = new Cookies(n1,"Ravi");**

**res.addCookies(cc);**

**Demo2.java Read Cookies 1st req**

**Cookies cc[] = req.getCookies();**

**for(){**

**}**

**2. url writing**

**3. hidden form field :**

**action ="Home"**

**CustId<input type="text" name="c">**

**<input type="hidden" name="hh" value="1"/>**

**action ="home"**

**Name<input type="text" name="c2">**

**Password<input type="text" name="c3">**

**<input type="hidden" name="hh" value="2"/>**

**4. HttpSession API (Java)**

**HttpSession is a interface which provide set of methods which help to keep the track about the session.**

**HttpSession hs = request.getSession();**

**5. SSL : Secure socket layer :**

**https:**

**Scope objects or values :**

**4 types**

**1. Servlet or Page scope**

**2. request scope**

**3. session scope**

**4. ServletContext or application scope**

**<%!int c=40;%>**

**class Demo1 {**

**int b=20;**

**void doGet() {**

**int a=10;**

**req.setAttribute("obj",a);**

**HttpSession hs = req.getSession();**

**hs.setAttribute("obj1",a);**

**}**

**}**

**class Demo2{**

**void doGet() {**

**a and b;**

**Object obj = req.getAttribute("obj");**

**HttpSession hs = req.getSession();**

**Object obj1 = hs.getAttribute("obj1");**

**}**

**}**

**<%**

**Object obj3 = session.getAttribute("obj1");**

**Object obj4 = application.getAttribute("obj3");**

**%>**

**http://localhost:9999/SessionTracking/Demo1**

**http://localhost:9999/SessionTracking/Demo1**

**http://localhost:9999/SessionTracking/display.jsp**

**Day 4- Servlet and JSP - 15-10-2019**

**JSTL : Java or JSP Standard Tag Library :**

**JSTL provided set of tags which help to do core functionality, sql functionality, numberformat functionality as well as xml functionality purely using tags.**

**<%**

**%>**

**directive tags**

**1. page**

**2. include**

**3. taglib**

**<%@taglib uri="address " prefix="prefixName"%>**

**taglibs-standard-spec-1.2.5.jar**

**taglibs-standard-impl-1.2.5.jar**

**EL : Expression Language**

**${10+20}**

**<%=10+20 %>**

**Servlet**

**request.setAttribute("obj","Raj");**

**<%**

**out.println(request.getAttribute("obj"));**

**%>**

**${requestScope.obj}**

**Filter : It is a type of Servlet which help to scan the request and response before request reach to specific servlet or response back to client.**

**Client Server**

**f1 f2 fn s1**

**s2**

**sn**

**Servlet Filter**

**interfaces**

**5 methods 3 methods**

**3 life cycle methods**

**init init**

**ServletConfig FilterConfig**

**destroy destroy**

**service doFilter**

**request, response request, response**

**FitlerChain**

**AJAX :**

**Asynchronous**

**JavaScript**

**And**

**Xml**

**2005 :**

**readyState**

**0-->not initialize**

**1 --> ready to send**

**2 --> sent**

**3-->process**

**4-->ready to give response**