

Kamnoetvidya Science Academy
Object Oriented Programming using Java

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Java Session

Create the files as required in the below code and try using sessions in java servlets

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd">

    <servlet>

        <servlet-name>LoginServlet</servlet-name>

        <servlet-class>LoginServlet</servlet-class>

    </servlet>

    <servlet>

        <servlet-name>LogoutServlet</servlet-name>

        <servlet-class>LogoutServlet</servlet-class>

    </servlet>

    <servlet-mapping>

        <servlet-name>LoginServlet</servlet-name>

        <url-pattern>/LoginServlet</url-pattern>

    </servlet-mapping>

    <servlet-mapping>

        <servlet-name>LogoutServlet</servlet-name>

        <url-pattern>/LogoutServlet</url-pattern>

    </servlet-mapping>

    <session-config>

        <session-timeout>
```

30

```
</session-timeout>
```

```
</session-config>
```

```
</web-app>
```

index.html

```
<!DOCTYPE html>
```

```
<!--
```

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and open the template in the editor.

```
-->
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="US-ASCII">
```

```
<title>Login Page</title>
```

```
</head>
```

```
<body>
```

```
<form action="LoginServlet" method="post">
```

```
Username: <input type="text" name="user">
```

```
<br>
```

```
Password: <input type="password" name="pwd">
```

```
<br>
```

```
<input type="submit" value="Login">
```

```
</form>
```

```
</body>
```

</html>

LoginServlet.java

```
/*
```

```
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```

```
* To change this template file, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import javax.servlet.RequestDispatcher;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.Cookie;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

```
* Servlet implementation class LoginServlet
```

```
*/
```

```
@WebServlet("/LoginServlet")
```

```
public class LoginServlet extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    private final String userID = "kvisuser";
```

```
    private final String password = "vistec";
```

```
protected void doPost(HttpServletRequest request,
                        HttpServletResponse response) throws ServletException, IOException {

    // get request parameters for userID and password
    String user = request.getParameter("user");
    String pwd = request.getParameter("pwd");

    if(userID.equals(user) && password.equals(pwd)){
        Cookie loginCookie = new Cookie("user",user);
        //setting cookie to expiry in 30 mins
        loginCookie.setMaxAge(30*60);
        response.addCookie(loginCookie);
        response.sendRedirect("LoginSuccess.jsp");
    }else{
        RequestDispatcher rd =
getServletContext().getRequestDispatcher("/login.html");
        PrintWriter out= response.getWriter();
        out.println("<font color=red>Either user name or password is wrong.</font>");
        rd.include(request, response);
    }

}

}
```

LoginSuccess.jsp

<%--

Document : LoginSuccess

Created on : Jan 25, 2017, 2:18:11 PM

Author : 591003

--%>

<%@ page language="java" contentType="text/html; charset=US-ASCII"

pageEncoding="US-ASCII"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">

<title>Login Success Page</title>

</head>

<body>

<%

String userName = null;

Cookie[] cookies = request.getCookies();

if(cookies !=null){

for(Cookie cookie : cookies){

if(cookie.getName().equals("user")) userName = cookie.getValue();

}

}

if(userName == null) response.sendRedirect("login.html");

%>

<h3>Hi <%=userName %>, Login successful.</h3>


```
<form action="LogoutServlet" method="post">
<input type="submit" value="Logout" >
</form>
</body>
</html>
```

LogoutServlet.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
```

```
import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 * Servlet implementation class LogoutServlet
 */
@WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
    response.setContentType("text/html");
```

```
    Cookie loginCookie = null;
```

```
    Cookie[] cookies = request.getCookies();
```

```
    if(cookies != null){
```

```
        for(Cookie cookie : cookies){
```

```
            if(cookie.getName().equals("user")){
```

```
                loginCookie = cookie;
```

```
                break;
```

```
            }
```

```
        }
```

```
    }
```

```
    if(loginCookie != null){
```

```
        loginCookie.setMaxAge(0);
```

```
        response.addCookie(loginCookie);
```

```
    }
```

```
    response.sendRedirect("index.html");
```

```
}
```

```
}
```