

<b>Exp No: 6</b> <b>Date: 07.04.25</b>	<b>HTTP SESSION</b>
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### AIM:

To Write a Servlet to demonstrate session tracking using HTTP Session. Implement a simple login system where the user's session is tracked.

### PROGRAM:

#### httpsessionhandle.java

```
package siva.servlet;

import java.io.IOException;
import java.io.PrintWriter;

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

/**
 * Servlet implementation class HttpSessionHandle
 */
@WebServlet("/HttpSessionHandle")
public class HttpSessionHandle extends HttpServlet {
    private static final long serialVersionUID = 1L;
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        String username = "WTMA";
        String password = "WTMA";
        PrintWriter p = response.getWriter();
        String user = request.getParameter("username");
        String pass = request.getParameter("password");

        if(user.equals(username) && pass.equals(password))
        {
            HttpSession session = request.getSession(true);
            session.setAttribute("username", user);

            response.sendRedirect(request.getContextPath() +
"/HttpSessionHandleDisplay");
        }

        else
        {
            p.println("fail");
        }
    }
}
```

```
}
```

### **HttpSessionHandleDisply.java**

```
package siva.servlet;

import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException, IOException {
        PrintWriter p = response.getWriter();
        HttpSession session = request.getSession(true);

        String user_name =
        (String)session.getAttribute("username");
        p.println("Usermae is " + user_name);
    }

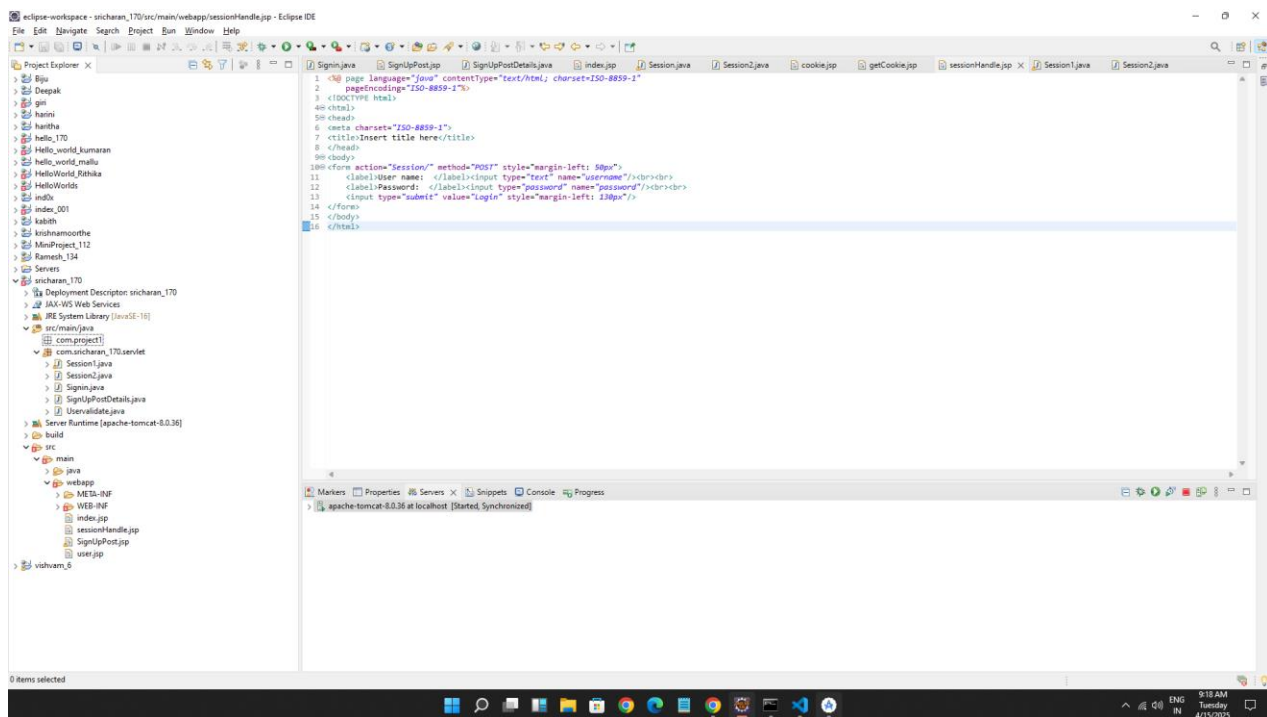
}
```

INDEX.HTML

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>HTTP Session</title>
</head>
<body>
<h1>Form Handle By HTTP Session</h1>
<form action="/sivamurugan/HttpSessionHandle" method="POST"
style="margin-left: 50px">
    <label>Username: </label><input type="text"
name="username"/><br><br>
    <label>Password: </label><input type="password"
name="password"/><br><br>
    <input type="submit" value="Login" style="margin-left: 130px"/>
</form>
</body>
</html>

```



The screenshot shows the Eclipse IDE with the 'Session1.java' file open. The code defines a Servlet implementation class 'Session1' that extends 'HttpServlet'. It includes a package declaration 'package com.sricharan\_170.servlet;', imports 'java.io.IOException', and a serial version UID. The class has a 'doGet' method that returns 'Session2/' and a 'doPost' method that checks if the user is 'vishva' and the password is 'vishva'. If correct, it returns 'Session2/'; otherwise, it prints 'fail!'. The IDE interface includes a Project Explorer on the left showing the project structure, a Package Explorer in the middle, and a code editor on the right. The status bar at the bottom shows 'Writable', 'Smart Insert', and '45:56:1450'.

```
1 package com.sricharan_170.servlet;
2
3 import java.io.IOException;
4
5 /**
6  * Servlet implementation class Session
7  */
8 @WebServlet("/Session/")
9 public class Session1 extends HttpServlet {
10     private static final long serialVersionUID = 1L;
11
12     /**
13      * @see HttpServlet#HttpServlet()
14      */
15     public Session1() {
16         super();
17         // TODO Auto-generated constructor stub
18     }
19
20     /**
21      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
22      */
23     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
24         response.getWriter().append("Served at: ").append(request.getContextPath());
25     }
26
27     /**
28      * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
29      */
30     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
31         // TODO Auto-generated method stub
32         String username = request.getParameter("username");
33         String password = request.getParameter("password");
34
35         if (username.equals("vishva") && password.equals("vishva")) {
36             HttpSession session = request.getSession(true);
37             session.setAttribute("username", username);
38             response.sendRedirect(request.getContextPath() + "/Session2/");
39         } else {
40             p.println("fail!");
41         }
42     }
43 }
```

The screenshot shows the Eclipse IDE with the 'Session2.java' file open. The code defines a Servlet implementation class 'Session2' that extends 'HttpServlet'. It includes a package declaration 'package com.sricharan\_170.servlet;', imports 'java.io.IOException', 'java.io.PrintWriter', 'javax.servlet.ServletException', 'javax.servlet.annotation.WebServlet', 'javax.servlet.http.HttpServlet', 'javax.servlet.http.HttpServletRequest', 'javax.servlet.http.HttpServletResponse', and 'javax.servlet.http.HttpSession'. The class has a 'doGet' method that returns 'Session2/' and a 'doPost' method that checks if the user is 'vishva' and the password is 'vishva'. If correct, it returns 'Session2/'; otherwise, it prints 'fail!'. The IDE interface includes a Project Explorer on the left showing the project structure, a Package Explorer in the middle, and a code editor on the right. The status bar at the bottom shows 'Writable', 'Smart Insert', and '1:35:34'.

```
1 package com.sricharan_170.servlet;
2
3 import java.io.IOException;
4 import java.io.PrintWriter;
5
6 import javax.servlet.ServletException;
7 import javax.servlet.annotation.WebServlet;
8 import javax.servlet.http.HttpServlet;
9 import javax.servlet.http.HttpServletRequest;
10 import javax.servlet.http.HttpServletResponse;
11 import javax.servlet.http.HttpSession;
12
13 /**
14  * Servlet implementation class Session2
15  */
16 @WebServlet("/Session2/")
17 public class Session2 extends HttpServlet {
18     private static final long serialVersionUID = 1L;
19
20     /**
21      * @see HttpServlet#HttpServlet()
22      */
23     public Session2() {
24         super();
25         // TODO Auto-generated constructor stub
26     }
27
28     /**
29      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
30      */
31     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
32         PrintWriter p = response.getWriter();
33         HttpSession session = request.getSession(true);
34
35         @SuppressWarnings("deprecation")
36         String user_name = (String)session.getAttribute("username");
37         p.println("User name is " + user_name);
38         response.getWriter().append("Served at: ").append(request.getContextPath());
39     }
40
41     /**
42      * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
43      */
44     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
45         // TODO Auto-generated method stub
46         doGet(request, response);
47     }
48 }
49
50
51 }
```

## OUTPUT:

