EXP NO: 6	**Servlet-Based Login System Demonstrating Session Tracking with HttpSession**

AIM:

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

CODE:
Session.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="./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>
```

HttpSessionHandle.Java

```java
package com.karthick.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;

  /**
   * @see HttpServlet#HttpServlet()
   */
  public HttpSessionHandle() {
    super();
    // TODO Auto-generated constructor stub
  }

        /**
         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
         */

        @SuppressWarnings("deprecation")
        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.putValue("username", user);
```

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

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

HttpSessionHandleDisplay.Java

```java
package com.karthick.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#HttpServlet()
   */
  public HttpSessionHandleDisplay() {
    super();
    // TODO Auto-generated constructor stub
  }

        /**
         * @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);
```
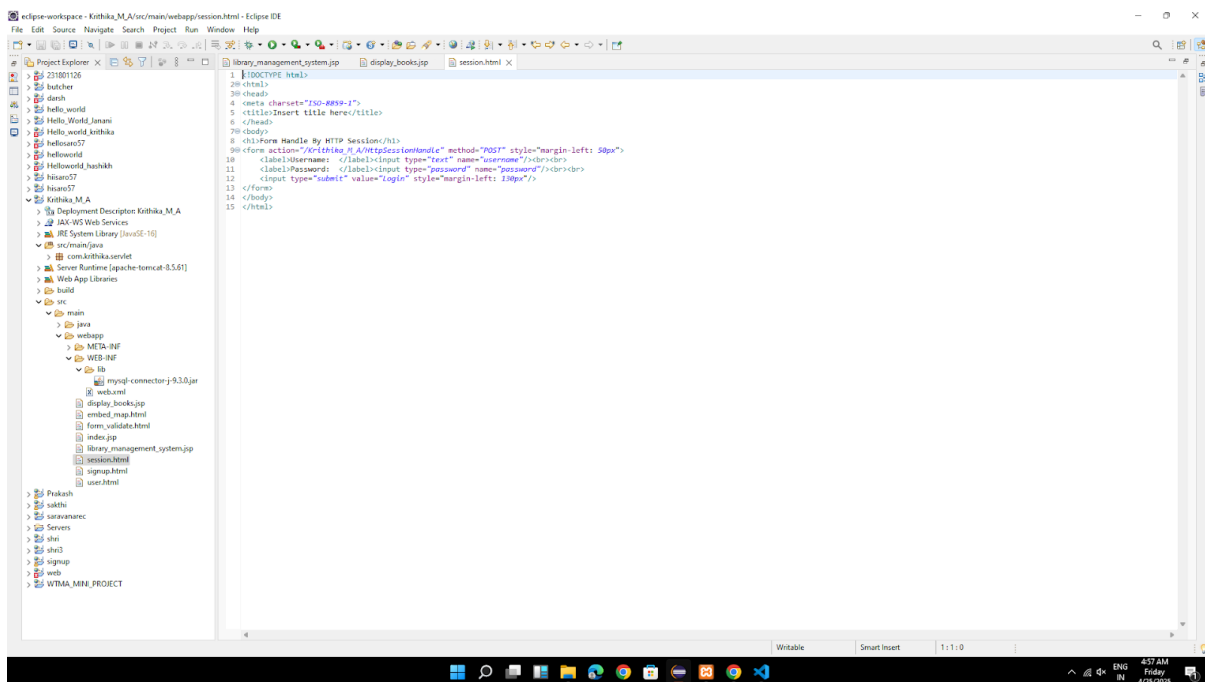
```
                @SuppressWarnings("deprecation")
                String user_name = (String)session.getValue("username");
                p.println("Usernmae is " + user_name);
        }


        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
                // TODO Auto-generated method stub
                doGet(request, response);
        }


}
```

OUTPUT:

```java
package com.krithika.servlet;

import java.io.IOException;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public HttpSessionHandle() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    @SuppressWarnings("deprecation")
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        String username = "Krithi";
        String password = "Hehehe";

        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.putValue("username", user);

            response.sendRedirect(request.getContextPath() + "/HttpSessionHandleDisplay");
        }
        else
        {
            p.println("fail");
        }
    }
}
```

```java
package com.krithika.servlet;

import java.io.IOException;

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public HttpSessionHandleDisplay() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @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);

        @SuppressWarnings("deprecation")
        String user_name = (String)session.getValue("username");
        p.println("Username is " + user_name);
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}
```
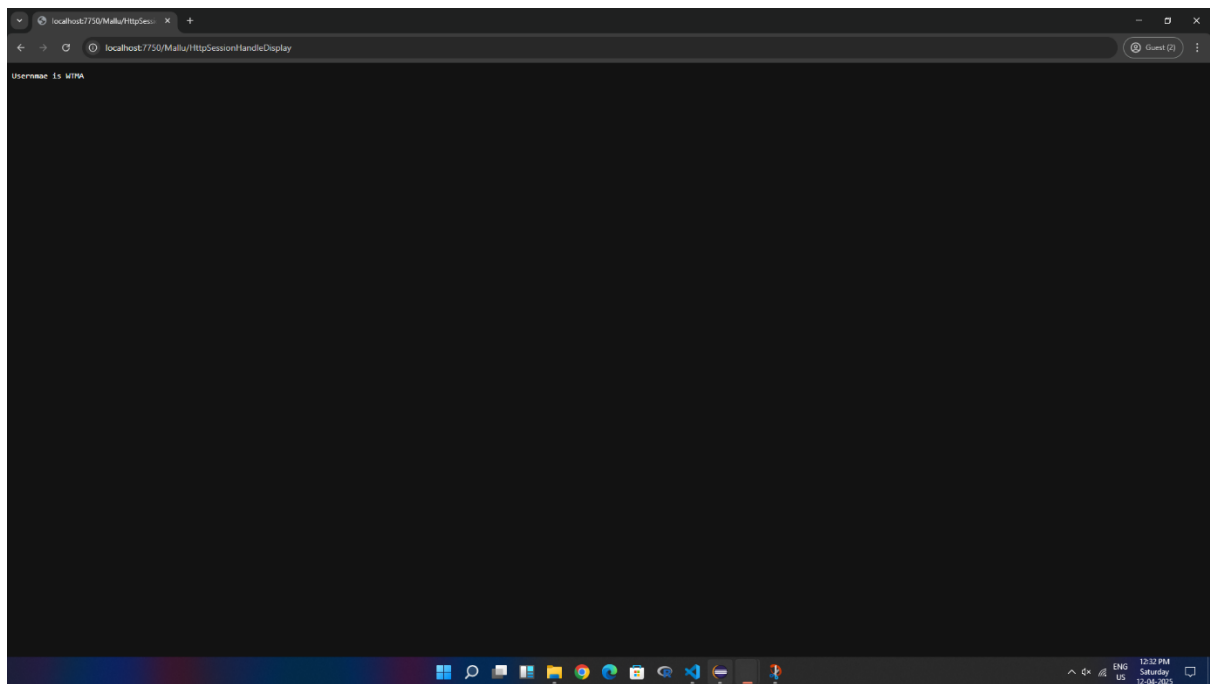
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Form Handle By HTTP Session

Username: WTMA
Password: ••••

Login

Usernmae is WTMA

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RESULT:

Thus, the Session Tracking is demonstrated using HTTP session.

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