

Prepare Servlet application login using session tracking and database connectivity.**First_page.java**

```
1. import java.io.IOException;
2. import java.io.PrintWriter;
3. import java.sql.Connection;
4. import java.sql.Date;
5. import java.sql.DriverManager;
6. import java.sql.ResultSet;
7. import java.sql.Statement;
8. import javax.servlet.ServletException;
9. import javax.servlet.http.HttpServlet;
10. import javax.servlet.http.HttpServletRequest;
11. import javax.servlet.http.HttpServletResponse;
12. import javax.servlet.http.HttpSession;
13.
14. public class first_page extends HttpServlet {
15.
16.     protected void processRequest(HttpServletRequest request, HttpServletResponse
        response)
17.         throws ServletException, IOException {
18.         response.setContentType("text/html;charset=UTF-8");
19.         HttpSession session;
20.         String struname=request.getParameter("uname");
21.         String strpass =request.getParameter("pass");
22.         try (PrintWriter out = response.getWriter()) {
23.             try
24.             {
25.                 Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
26.                 Connection cn=DriverManager.getConnection("jdbc:odbc:UserDB");
27.                 Statement st=cn.createStatement();
28.                 ResultSet rs=st.executeQuery("select * from login where
        username='"+struname+"' and password='"+strpass+"'");
29.                 out.println("<!DOCTYPE html>");
30.                 out.println("<html>");
31.                 out.println("<head>");
32.                 out.println("<title>User Detail</title>");
33.                 out.println("</head>");
34.                 out.println("<body>");
35.                 out.println("<form method='POST' action='session'>");
36.                 out.println("<div style=\"margin-top:200px;\"");
37.                 session=request.getSession(true);
38.                 if(rs.next())
39.                 {
40.                     session=request.getSession(true);
```

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41.         if(session.getAttribute("user")==null)
42.         {
43.             session.setAttribute("user",rs.getString(2));
44.         }
45.     }
46.     if(session.getAttribute("user")!=null)
47.     {
48.
49.
50.         out.println("<table align='center'>");
51.         out.println("<tr><td><font                color='\"green\"'>Log                In
Success</font></td><td></td></tr>");
52.         out.println("<tr> <td> <br>Welcome, "+session.getAttribute("user"));
53.         out.println("</tr> </td>");
54.         out.println("<tr> <td> </td> <td><input type='submit' name='submit'
value='Logout'>");
55.     }
56.     else
57.     {
58.         out.println("<table align='center'>");
59.         out.println("<tr><td><font color='\"red\"'>Sorry, You have entered an invalied
user name or password</font></td></tr>");
60.         out.println("<tr><td><font                color='\"red\"'><br>Please                Try
Again</font></td></tr>");
61.         out.println("</table>");
62.     }
63.     out.println("</div>");
64.     out.println("</body>");
65.     out.println("</html>");
66.     }
67.     catch(Exception e)
68.     {
69.         out.println("Error Message for Database : "+e.toString());
70.     }
71. }
72. }
73. // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign
on the left to edit the code.">
74. /**
75.  * Handles the HTTP <code>GET</code> method.
76.  *
77.  * @param request servlet request
78.  * @param response servlet response
79.  * @throws ServletException if a servlet-specific error occurs
80.  * @throws IOException if an I/O error occurs
81.  */

```

```
82.  @Override
83.  protected void doGet(HttpServletRequest request, HttpServletResponse response)
84.      throws ServletException, IOException {
85.      processRequest(request, response);
86.      HttpSession session = request.getSession(true);
87.      Date creatTime = new Date(session.getCreationTime());
88.
89.
90.  }
91.
92.  /**
93.   * Handles the HTTP <code>POST</code> method.
94.   *
95.   * @param request servlet request
96.   * @param response servlet response
97.   * @throws ServletException if a servlet-specific error occurs
98.   * @throws IOException if an I/O error occurs
99.   */
100. @Override
101. protected void doPost(HttpServletRequest request, HttpServletResponse response)
102.     throws ServletException, IOException {
103.     processRequest(request, response);
104. }
105.
106. /**
107.  * Returns a short description of the servlet.
108.  *
109.  * @return a String containing servlet description
110.  */
111. @Override
112. public String getServletInfo() {
113.     return "Short description";
114. } // </editor-fold>
115. }
```

Session.java

```
1.  import java.io.IOException;
2.  import java.io.PrintWriter;
3.  import javax.servlet.ServletException;
4.  import javax.servlet.http.HttpServlet;
5.  import javax.servlet.http.HttpServletRequest;
6.  import javax.servlet.http.HttpServletResponse;
7.  import javax.servlet.http.HttpSession;
8.  import java.net.*;
9.
10. public class session extends HttpServlet {
11.
12.
13.     protected void processRequest(HttpServletRequest request, HttpServletResponse
        response)
14.         throws ServletException, IOException {
15.         response.setContentType("text/html;charset=UTF-8");
16.         try (PrintWriter out = response.getWriter()) {
17.             HttpSession session;
18.             session=request.getSession(true);
19.             session.setAttribute("user", null);
20.             session.invalidate();
21.             out.println("<!DOCTYPE html>");
22.             out.println("<html><script type='text/javascript'> windows.location('index.html');
                alert('Jekil'); </script>");
23.             out.println("<head>");
24.             out.println("<title>Servlet session</title>");
25.             out.println("</head>");
26.             out.println("<body>");
27.             out.println("<h1>Servlet session at </h1>");
28.             response.sendRedirect("index.html");
29.             out.println("</body>");
30.             out.println("</html>");
31.         }
32.     }
33.
34.
35.     @Override
36.     protected void doGet(HttpServletRequest request, HttpServletResponse response)
37.         throws ServletException, IOException {
38.         processRequest(request, response);
39.     }
40.
41.
```

```
42.  @Override
43.  protected void doPost(HttpServletRequest request, HttpServletResponse response)
44.      throws ServletException, IOException {
45.      processRequest(request, response);
46.  }
47.
48.
49.  @Override
50.  public String getServletInfo() {
51.      return "Short description";
52.  }
53.
54. }
```

Index.html

```
1.  <!DOCTYPE html>
2.  <!--
3.  To change this license header, choose License Headers in Project Properties.
4.  To change this template file, choose Tools | Templates
5.  and open the template in the editor.
6.  -->
7.  <html>
8.      <head>
9.          <title>User Info</title>
10.         <meta charset="UTF-8">
11.         <meta name="viewport" content="width=device-width, initial-scale=1.0">
12.     </head>
13.     <body>
14.         <form method="POST" action="first_page">
15.             <div style="margin-top:200px;">
16.                 <table border="0" align="center">
17.                     <th colspan="3" align="Left"><h2>Login</h2></th>
18.                     <tr>
19.                         <td>User Name</td>
20.                         <td>:</td>
21.                         <td><input type="text" name="uname" ></td>
22.                     </tr>
23.                     <tr>
24.                         <td>Password</td>
25.                         <td>:</td>
26.                         <td><input type="password" name="pass" ></td>
27.                     </tr>
28.                     <tr>
29.                         <td></td>
30.                         <td></td>
31.                         <td><input type="submit" name="submit" value="Submit"></td>
```

```

32.      </tr>
33.      </table>
34.      </div>
35.      </form>
36.      </body>
37. </html>

```

OUTPUT

Login

User Name :

Password :

Log In Success

Welcome, Jekil

Log IN Success

Login Screen

Sorry, You have entered an invalied user name or password

Please Try Again

Incorrect User name or Password.