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ADVANCED INTERNET PROGRAMMING

Subject Code:22CAP653

Student Name: Rishav Kumar

UID:22MCC20039

Section/Group: MCD-1/(A)

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Experiment No. 2.3

1. Aim/Overview of the practical:

- Write the Admin panel application using JSP or Servlet. In the Admin panel there should be following modules.
- Admin panel should be open through login window and login should be properly managed by session.
- Admin can register the new user
- Admin can remove the user
- Admin can modify the user
- 5.Admin can search the specific user

Task to be done:

2. Algorithm/Flowchart :

- Create a admin.jsp page where admin can remove all the contents from the table with login session.
- Give the authority to perform CRUD operations to the admin user.

3. Code for experiment/practical:

LOGIN SERVLET:

```

19 /**
20  * Servlet implementation class loginServlet
21  */
22 @WebServlet("/loginServlet")
23 public class loginServlet extends HttpServlet {
24     private static final long serialVersionUID = 1L;
25
26     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
27         String name = request.getParameter("name");
28         String pass = request.getParameter("pass");
29         RequestDispatcher dispatcher = null;
30         HttpSession session = request.getSession();
31         try {
32             Class.forName("com.mysql.jdbc.Driver");
33             Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/project2?useSSL=false","root","");
34             PreparedStatement pst = con.prepareStatement("select * from user where name = ? and pass = ?");
35             pst.setString(1, name);
36             pst.setString(2, pass);
37
38             ResultSet rs = pst.executeQuery();
39             if(rs.next()) {
40                 session.setAttribute("name", rs.getString("name"));
41                 dispatcher = request.getRequestDispatcher("home.jsp");
42             } else {
43                 request.setAttribute("status", "failed");
44                 dispatcher = request.getRequestDispatcher("login.jsp");
45             }
46             dispatcher.forward(request, response);
47         } catch (Exception e) {
48             e.printStackTrace();
49         }
50     }
51 }
52 }

```

ADMIN.jsp PAGE:

```

<nav>
<%
    HttpSession Jesu = request.getSession (false) ;
    if (Jesu != null && Jesu.getAttribute ("username") != null)
%>
    <p>Welcome, <%= Jesu.getAttribute ("username") %>!</p>
    <form action= "logoutServlet" method= "post">
        <input type= "submit" value= "Logout">
    </form>
<%
%>
</nav>
<div align= "center">
<h1>Welcome to our home page</h1><br><br><br>
<form method= "post" action= "crudServlet">
    <input type= "text" name= "id" placeholder= "Name"><br><br>
    <input type= "text" name= "name" placeholder= "Name"><br><br>
    <input type= "text" name= "pass" placeholder= "Password"><br><br>
    <input type= "text" name= "contact" placeholder= "Contact"><br><br>
    <button type= "submit" name= "update">update-user</ button >
    <button type= "submit" name= "delete">Delete</ button >
    <button type= "submit" name= "insert">Insert</ button >
</form>
</div>
</body>
</html>

```

ADMIN SERVLET PAGE: INSERT NEW USER

```

2
3=import java.io.IOException;
4
5import javax.servlet.RequestDispatcher;
6import javax.servlet.ServletException;
7import javax.servlet.annotation.WebServlet;
8import javax.servlet.http.HttpServlet;
9import javax.servlet.http.HttpServletRequest;
10import javax.servlet.http.HttpServletResponse;
11import javax.servlet.http.HttpSession;
12
13import java.io.PrintWriter;
14import java.sql.Connection;
15import java.sql.DriverManager;
16import java.sql.PreparedStatement;|
17import java.sql.ResultSet;
18import java.sql.SQLException;
19
20@WebServlet("/crudServlet")
21public class crudServlet extends HttpServlet {
22    private static final long serialVersionUID = 1L;
23
24
25=    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
26        // TODO Auto-generated method stub
27        String id = request.getParameter("id");
28        String name = request.getParameter("name");
29        String pass = request.getParameter("pass");
30        String mob = request.getParameter("contact");
31        RequestDispatcher dispatcher = null;
32        Connection con = null;
33        if(request.getParameter("insert")!=null) {
34            try {
35                Class.forName("com.mysql.cj.jdbc.Driver");
36                con = DriverManager.getConnection("jdbc:mysql://localhost:3306/project1?useSSL=false","root","");
37                PreparedStatement pst = con.prepareStatement("insert into user(id,name,pass,mobile) values(?, ?, ?, ?)");
38                pst.setString(1, id);
39                pst.setString(2, name);
40                pst.setString(3, pass);
41                pst.setString(4, mob);
42
43                int rowcount = pst.executeUpdate();
44                dispatcher = request.getRequestDispatcher("register.jsp");

```

UPDATE USER

```

loginServlet.java  registerServlet.java  login.jsp  register.jsp  *crudServlet.java x  home.jsp
43
46        if(rowcount>0) {
47            request.setAttribute("status","success");
48        }else {
49            request.setAttribute("status","Failed");
50        }
51
52        dispatcher.forward(request, response);
53    }catch(Exception e){
54        e.printStackTrace();
55    }finally {
56
57        try {
58            con.close();
59        }catch(SQLException e) {
60            e.printStackTrace();
61        }
62    }
63    }else if(request.getParameter("update")!=null) {
64        try {
65            Class.forName("com.mysql.cj.jdbc.Driver");
66            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/project1?useSSL=false","root","");
67            PreparedStatement pst = con.prepareStatement("update user SET name=?, mobile=? where id=id");
68            pst.setString(1,name);
69            pst.setString(2, mob);
70
71            int rowcount = pst.executeUpdate();
72            dispatcher = request.getRequestDispatcher("home.jsp");
73
74            if(rowcount>0) {
75                request.setAttribute("status","success");
76            }else {
77                request.setAttribute("status","Failed");
78            }
79
80            dispatcher.forward(request, response);
81        }catch(Exception e) {
82            e.printStackTrace();
83        }finally {
84            try {
85                con.close();
86            }catch(SQLException e) {
87                e.printStackTrace();

```

DELETE USER

```
}catch(SQLException e) {  
    e.printStackTrace();  
}  
  
} else if(request.getParameter("delete")!=null) {  
    try {  
        Class.forName("com.mysql.cj.jdbc.Driver");  
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/project1?useSSL=false","root","");  
        PreparedStatement pst = con.prepareStatement("Delete from user WHERE id=id");  
        int rowcount = pst.executeUpdate();  
        dispatcher = request.getRequestDispatcher("home.jsp");  
    } catch(Exception e){  
        e.printStackTrace();  
    } finally {  
  
        try {  
            con.close();  
        } catch(SQLException e) {  
            e.printStackTrace();  
        }  
    }  
}  
  
}
```

4. Result/Output/Writing Summary:

Welcome, Jesu!

[Logout](#)

Welcome to our home page

1
Jesu
jesu
82828282
update-user Delete Insert

Learning outcomes (What I have learnt):

- 1. CRUD OPERATION USING JSP AND SERVLET**
- 2. SESSION LOGIN USING JSP AND SERVLET**

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance		5
2.	Worksheet		10
3.	Lab Quiz		5



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