



SEMESTER PROJECT

AOOP

Submitted by: MUHAMMAD ALI TAHIR

Submitted to: Sir Imran Ahsan

Class: BSCS-5(AFTERNOON)

ROLL NO : 2281

Date: Jan-18th -2022

Q: Create Signup form having username, name, cnic, contactno, password, nationality & gender entries, Maintain session between login, signup & record JSP files. Perform other crud operations (edit, update & delete) in jsp.

- **Database Table's Structure, template and record Ss:**

Server: 127.0.0.1 » Database: fnldb » Table: fnll

Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations

Table structure
Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	UserName	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 2	Name	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	Passwd	text	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	Cnic	int(11)			No	None			Change Drop More
<input type="checkbox"/> 5	ContactNo	int(11)			No	None			Change Drop More
<input type="checkbox"/> 6	Gender	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 7	Nationality	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
With selected:
Browse
Change
Drop
Primary
Unique
Index
Spatial

SIGN UP
VIEW RECORD/EDIT/DELETE
LOGIN
LOGOUT

Username:
Password:

Login
Sign Up

viewRecord Ss: (Here data is displayed alongside 2 links i. e Edit & Delete, In Edit there is also update operation which updates values after edit)

SIGN UP		VIEW RECORD/EDIT/DELETE		LOGIN	LOGOUT			
UserName	Name	Password	Cnic	Contact#	Gender	Nationality	EDIT	DELETE
ahmedZia	ahmed	asdf	1234	1234	Male	Australian	Edit	Delete
aliTC	ali	ali2	37105	3322222	Male	Pakistani	Edit	Delete
AyshaK	aysha	abcd	32421	12345	Female	Arabian	Edit	Delete

Logic : Here Admin can login only by using username & password from database, Admin can also signup (Not necessary to be logged in for signup). Other than this viewRecord.jsp shows the list of data where we can edit (after editing we apply UPDATE operation) and delete.

- **Index.jsp:**

```
<%@page
import="library.*,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.PrintWriter,javax.servlet
.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax.servlet.http.HttpServlet
Request,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;" contentType="text/html
" pageEncoding="UTF-8"%>
<html>
<head>
<title>LOGIN</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="al.css">
</head>
<body>
<form method = "post" action="">
<div class="topnav">
<a href="signup.jsp">SIGN UP</a>
<a href="viewRecord.jsp">VIEW RECORD/EDIT/DELETE</a>
<a class="active" href="#">LOGIN</a>
<a href="logout.jsp">LOGOUT</a>
</div>
<center >
<div style="padding-left:16px;padding-top:50px">
<div style="padding-top: 200px" >
Username: <input type = "text" name ="t1">
</div >
<div style="padding-top: 5px" >
Password: <input type = "password" name ="t2">
</div>
```

```

        <div style="padding-top: 10px" >
            <input type = "submit" name ="loginbtn" value = "Login">
            <input type = "submit" name ="sgupbtn" value = "Sign Up">
        </div>
    </div>
</center>
</form>
</body>
</html>
<%
    try {
        if (request.getParameter("t1") != null) {
            class1 s = new class1();
            classDao dao = new classDao();
            String str1 = request.getParameter("t1");
            String str2 = request.getParameter("t2");
            s.UserName = request.getParameter("t1");
            s.Passwd = request.getParameter("t2");
            ResultSet rs = dao.logininfo(s);
            if (rs.next()) {          //if username & Password is correct as in database
                HttpSession Session = request.getSession();
                Session.setAttribute("t1", str1);
                Session.setAttribute("t2", str2);

                response.sendRedirect("home.jsp");
            } else { %>
<p>Invalid Username or Password, Please try again</p><br>
<% }
                if (request.getParameter("sgupbtn") != null) {
                    response.sendRedirect("signup.jsp");
                }
            }
        } catch (Exception ex) {
            System.out.println(ex.toString());
        }
    }
%>

```

- **signup.jsp:**

```

<%@page
import="library.*,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.PrintWriter,javax.servlet
.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax.servlet.http.HttpServlet
Request,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;"contentType="text/html
" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <title>Sign Up</title>

```

```

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="al.css">
</head>
<body>
<form method = "post" action="">
  <div class="topnav">
    <a class="active" href="#">SIGN UP</a>
    <a href="viewRecord.jsp">VIEW RECORD/EDIT/DELETE</a>
    <a href="index.jsp">LOGIN</a>
    <a href="logout.jsp">LOGOUT</a>
  </div>
  Username:<input type="text" name="UserName" /> <br>
  Name: <input type="text" name="Name" /> <br>
  Password: <input type="Password" name="Passwd" /> <br>
  Cnic: <input type="text" name="Cnic" /> <br>
  Contact#: <input type="text" name="ContactNo" /> <br>
  Gender: <input type="radio" name="Gender" value="Male"/> Male
  <input type="radio" name="Gender" value="Female"/> Female <br>
  Nationality: <select name ="Nationality">
    <option value="Choose Country">Choose Country</option>
    <option value="Pakistani">Pakistani</option>
    <option value="Australian">Australian</option>
    <option value="Italian">Italian</option>
    <option value="Arabian">Arabian</option>
  </select>
  <input type = "submit" name = "sgnbtn" value = "Sign Up">
</form>
</body>
</html>
<%
try {
  HttpSession Session = request.getSession();
  class1 s = new class1();
  classDao dao = new classDao();
  if (request.getParameter("UserName") != null) {
    s.UserName = request.getParameter("UserName");
    s.Name = request.getParameter("Name");
    s.Passwd = request.getParameter("Passwd");
    s.Cnic = Integer.parseInt(request.getParameter("Cnic"));
    s.ContactNo = Integer.parseInt(request.getParameter("ContactNo"));
    s.Gender = request.getParameter("Gender");
    s.Nationality = request.getParameter("Nationality");
    if (request.getParameter("sgnbtn") != null) {
      int res = dao.Insert(s); %>
    }
  }
  <p> Signed Up Successfully </p>
  <a href="index.jsp">Go Back?</a>
<%

```

```

    }
}
} catch (Exception ex) {
    System.out.println(ex.toString());
}%>

```

- edit.jsp:

```

<%@page
import="library.*,java.sql.DriverManager,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.
PrintWriter,javax.servlet.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax
.servlet.http.HttpServletRequest,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;"
contentType="text/html" pageEncoding="UTF-8"%>
<%
    //After Pressing Update btn, after fetching
    class1 s = new class1();
    classDao dao = new classDao();
    String radiovalue = null;
    String selectvalue = null;
    if (request.getParameter("updatebtn") != null) {
        s.UserName = request.getParameter("UserName");
        s.Name = request.getParameter("Name");
        s.Passwd = request.getParameter("Passwd");
        s.Cnic = Integer.parseInt(request.getParameter("Cnic"));
        s.ContactNo = Integer.parseInt(request.getParameter("ContactNo"));
        s.Gender = request.getParameter("Gender");
        s.Nationality = request.getParameter("Nationality");
        int res = dao.Update(s); %>
<p>Updated Successfully</p>
<% } %>
<!DOCTYPE html>
<html>
    <head>
        <title>edit</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="stylesheet" href="al.css">
    </head>
    <body>
        <%
            //FOR EDIT/fetching
            s.UserName = request.getParameter("UserName");
            ResultSet rs = dao.SelectByUserName(s);
            while (rs.next()) {
                radiovalue = rs.getString(6);
                selectvalue = rs.getString(7);
            %>

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

```

```

<div class="topnav">
  <a href="signup.jsp">SIGN UP</a>
  <a class="active" href="viewRecord.jsp">VIEW RECORD/EDIT/DELETE</a>
  <a href="index.jsp">LOGIN</a>
  <a href="logout.jsp">LOGOUT</a>
</div>
Username:<input type="text" value ="<%=rs.getString(1)%>" name="UserName" /> <br>
Name: <input type="text" value ="<%=rs.getString(2)%>" name="Name" /> <br>
Password: <input type="Password" value ="<%=rs.getString(3)%>" name="Passwd" /> <br>
Cnic: <input type="text" value ="<%=rs.getString(4)%>" name="Cnic" /> <br>
Contact#: <input type="text" value ="<%=rs.getString(5)%>" name="ContactNo" /> <br>
<%
  if (radiovalue.equals("Male")) {%>
    Gender: <input type="radio" checked="true" name="Gender"
value="<%=rs.getString(6)%>" /><%=rs.getString(6)%>
    <input type="radio" name="Gender" value="Female" /> Female <br>
    <% } else {%>
    Gender:<input type="radio" name="Gender" value="Male" /> Male
    <input type="radio" checked="true" name="Gender"
value="<%=rs.getString(6)%>" /><%=rs.getString(6)%><br>
    <% }%>
    Nationality: <select name ="Nationality">

      <% if (selectvalue.equals("Pakistani")) {%>
      <option selected = "true" value="<%=rs.getString(7)%>"><%=rs.getString(7)%></option>
      <option value="Australian">Australian</option>
      <option value="Italian">Italian</option>
      <option value="Arabian">Arabian</option>
      <% }
      if (selectvalue.equals("Australian")) {%>
      <option value="Pakistani">Pakistani</option>
      <option selected = "true" value="<%=rs.getString(7)%>"><%=rs.getString(7)%></option>
      <option value="Italian">Italian</option>
      <option value="Arabian">Arabian</option>
      <% }
      if (selectvalue.equals("Italian")) {%>
      <option value="Pakistani">Pakistani</option>
      <option value="Australian">Australian</option>
      <option selected = "true" value="<%=rs.getString(7)%>"><%=rs.getString(7)%></option>
      <option value="Arabian">Arabian</option>
      <% }
      if (selectvalue.equals("Arabian")) {%>
      <option value="Pakistani">Pakistani</option>
      <option value="Australian">Australian</option>
      <option value="Italian">Italian</option>
      <option selected = "true" value="<%=rs.getString(7)%>"><%=rs.getString(7)%></option>
      <% }
      if (selectvalue.equals("Choose Country")) {%>

```

```

        <option value="Choose Country">Choose Country</option>
        <option value="Pakistani">Pakistani</option>
        <option value="Australian">Australian</option>
        <option value="Italian">Italian</option>
        <option value="Arabian">Arabian</option>
        <% } %>
    </select>
    <% } %>
    <input type = "submit" name = "updatebtn" value = "Update">
</form>
</body>
</html>

```

- delete.jsp:

```

<%@page
import="library.*,java.util.*,java.sql.*,java.sql.DriverManager,java.io.IOException,javax.servlet.*,java.io.
PrintWriter,javax.servlet.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax
.servlet.http.HttpServletRequest,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;"
contentType="text/html" pageEncoding="UTF-8"%>
<%
    try {
        HttpSession Session = request.getSession();
        if(session.getAttribute("t1")==null)
        {
            response.sendRedirect("index.jsp");
        }
        else{
            class1 s = new class1();
            s.UserName = request.getParameter("UserName");
            classDao dao=new classDao();
            int res = dao.Delete(s); %>
<p> Deleted Successfully </p>
<a href="viewRecord.jsp">Go Back?</a>
<%
        }
    }
    catch (Exception ex) {
        System.out.println(ex.toString());
    }%>

```

- viewRecord.jsp:

```

<%@page
import="library.*,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.PrintWriter,javax.servlet
.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax.servlet.http.HttpServlet
Request,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;"contentType="text/html
" pageEncoding="UTF-8"%>
<%
    try {
        HttpSession Session = request.getSession();

```



```

        if(session.getAttribute("t1")==null)
        {
            response.sendRedirect("index.jsp");
        }
        else{ %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <link rel="stylesheet" href="al.css">
        <title>View Record</title>
    </head>
    <body>
        <% classDao dao = new classDao();
            ArrayList<class1> list1 = dao.SearchAll(); %>
        <form method = "post" action = "">
            <div class="topnav">
                <a href="signup.jsp">SIGN UP</a>
                <a class="active" href="#">VIEW RECORD/EDIT/DELETE</a>
                <a href="index.jsp">LOGIN</a>
                <a href="logout.jsp">LOGOUT</a>
            </div>
            <table border='1' width = '100%'>
                <tr><th>UserName</th><th>Name</th><th>Password</th><th>Cnic</th><th>Contact#</th><th>Gender</th><th>Nationality</th><th>EDIT</th><th>DELETE</th></tr>
                <% for (class1 s : list1) {%>
                <tr><td><%=s.UserName%></td><td><%=s.Name%></td><td><%=s.Passwd%></td><td><%=s.Cnic%></td><td><%=s.ContactNo%></td><td><%=s.Gender%></td><td><%=s.Nationality%></td><td><a href="edit.jsp?UserName=<%=s.UserName%>">Edit</a></td><td><a href="delete.jsp?UserName=<%=s.UserName%>">Delete</a></td></tr>
                <% }%>
            </table>
        </form>
    </body>
</html>
    <% }
}catch (Exception ex)
{
    System.out.println(ex.toString());
}
%>

```

- home.jsp:

```

<%@page
import="library.*,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.PrintWriter,javax.servlet
.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax.servlet.http.HttpServlet
Request,javax.servlet.http.HttpServletRequestResponse,javax.servlet.http.HttpSession;" contentType="text/html
" pageEncoding="UTF-8"%>

```

```

<%
try {
    HttpSession Session = request.getSession();
    if(session.getAttribute("t1")==null)
    {
        response.sendRedirect("index.jsp");
    }
    else{ %>
<html>
    <head>
        <title>Home</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="stylesheet" href="al.css">
        <style>
            body{
                background-color: activecaption;
            }
            .links{
                background-color: cornflowerblue;
                margin-top:150px;
                padding: 60px;
            }
        </style>
    </head>
    <body>
    <center>
        <form method = "post" action="">
            <div class="topnav">
                <a href="signup.jsp">SIGN UP</a>
                <a href="viewRecord.jsp">VIEW RECORD/EDIT/DELETE</a>
                <a href="index.jsp">LOGIN</a>
                <a href="logout.jsp">LOGOUT</a>
            </div>
            <p>Signed in as Admin, Here you can see records, edit,update,delete in records. If admin don't
have an account he/she can Sign Up</p>
        </form>
    </center>
    </body>
</html>
    <% }
}catch (Exception ex)
{
    System.out.println(ex.toString());
}
%>

```

- Logout.jsp:

```

<%@page
import="library.*,java.util.*,java.sql.*,java.io.IOException,javax.servlet.*,java.io.PrintWriter,javax.servlet
.ServletException,javax.servlet.annotation.WebServlet,javax.servlet.http.*,javax.servlet.http.HttpServlet
Request,javax.servlet.http.HttpServletResponse,javax.servlet.http.HttpSession;" contentType="text/html
" pageEncoding="UTF-8"%>
<%
    try {
        HttpSession Session = request.getSession();
        if (session.getAttribute("t1") != null) { %>
<!DOCTYPE html>
<html>
    <head>
        <title>Logout</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="stylesheet" href="al.css">
    </head>
    <body>
        <form method="post" action="">
            <div class="topnav">
                <a href="signup.jsp">SIGN UP</a>
                <a href="viewRecord.jsp">VIEW RECORD/EDIT/DELETE</a>
                <a href="index.jsp">LOGIN</a>
                <a class="active" href="#">LOGOUT</a>
            </div>
            <% session.setAttribute("t1", null); %>
            <p>Logged Out Successfully</p>
            <a href="index.jsp">GO BACK?</a>
        </form>
    </body>
</html>
<% } else {
        response.sendRedirect("index.jsp");
    }
} catch (Exception ex) {
    System.out.println(ex.toString());
}
%>

```

- **class1.java:**

```

package library;
public class class1{
    public String UserName;
    public String Name;
    public String Passwd;
    public int Cnic;
    public int ContactNo;
    public String Gender;

```

```

    public String Nationality;
}

```

- **classDao.java:**

```

package library;
import java.sql.*;
import java.util.*;
public class classDao {
    Connection con = null;
    public void Connection() {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            String url = "jdbc:mysql://localhost:3306/fnldb";
            con = DriverManager.getConnection(url, "root", "ali8080");
        } catch (Exception ex) {
            System.out.println(ex.toString());
        }
    }
    public int Insert(class1 s) {
        int res = 0;
        try {
            Connection();
            String qry = "insert into fnll values (?, ?, ?, ?, ?, ?)";
            PreparedStatement pst = con.prepareStatement(qry);
            pst.setString(1, s.UserName);
            pst.setString(2, s.Name);
            pst.setString(3, s.Passwd);
            pst.setInt(4, s.Cnic);
            pst.setInt(5, s.ContactNo);
            pst.setString(6, s.Gender);
            pst.setString(7, s.Nationality);

            res = pst.executeUpdate();
        } catch (Exception ex) {
            System.out.println(ex.toString());
        }
        return res;
    }
    public int Update(class1 s) {
        int res = 0;
        try {
            Connection();
            PreparedStatement pst = con.prepareStatement("update fnll set Name = ?,Passwd = ?,Cnic=
?,ContactNo= ?,Gender= ?,Nationality= ? where UserName = ?");
            pst.setString(1, s.Name);
            pst.setString(2, s.Passwd);
            pst.setInt(3, s.Cnic);
            pst.setInt(4, s.ContactNo);

```

```

        pst.setString(5, s.Gender);
        pst.setString(6, s.Nationality);
        pst.setString(7, s.UserName);
        res = pst.executeUpdate();
    } catch (Exception ex) {
        System.out.println(ex.toString());
    }
    return res;
}

public int Delete(class1 s) {
    int res = 0;
    try {
        Connection();
        PreparedStatement psta = con.prepareStatement("delete from fnll where UserName = ?");
        psta.setString(1, s.UserName);
        res = psta.executeUpdate();
    } catch (Exception ex) {
        System.out.println(ex.toString());
    }
    return res;
}

public ArrayList<class1> SearchAll() {
    ArrayList<class1> list1 = new ArrayList<class1>();
    ResultSet rs = null;
    try {
        Connection();
        String qry = "Select * from fnll";
        Statement st = con.createStatement();
        rs = st.executeQuery(qry);
        while (rs.next()) {
            class1 s = new class1();
            s.UserName = rs.getString(1);
            s.Name = rs.getString(2);
            s.Passwd = rs.getString(3);
            s.Cnic = rs.getInt(4);
            s.ContactNo = rs.getInt(5);
            s.Gender = rs.getString(6);
            s.Nationality = rs.getString(7);
            list1.add(s);
        }
    } catch (Exception ex) {
        System.out.println(ex.toString());
    }
    return list1;
}

public ResultSet SelectByUserName(class1 s) //for exhibition table
{
    ResultSet rs = null;

```

```

try {
    Connection();
    String qry = "Select * from fnll where UserName = ?";
    PreparedStatement pst = con.prepareStatement(qry);
    pst.setString(1, s.UserName);
    rs = pst.executeQuery();
} catch (Exception ex) {
    System.out.println(ex.toString());
}
return rs;
}
public ResultSet logininfo(class1 s) {
    ResultSet rs = null;
    try {
        Connection();
        String qry = "Select * from fnll where UserName = ? and Passwd = ?";
        PreparedStatement pst = con.prepareStatement(qry);
        pst.setString(1, s.UserName);
        pst.setString(2, s.Passwd);
        rs = pst.executeQuery();
    } catch (Exception ex) {
        System.out.println(ex.toString());
    }
    return rs;
}
}

```

- **.CSS File:**

```

body {
    background-color:grey;
    margin: 0;
    font-family: Arial, Helvetica, sans-serif; }
.topnav {
    overflow: hidden;
    background-color: #333; }
.topnav a {
    float: left;
    color: #f2f2f2;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
    font-size: 17px; }
.topnav a:hover {
    background-color: #ddd;
    color: black; }
.topnav a.active {
    background-color: #04AA6D;
    color: white; }

```