



National University of Modern Languages

Advance Object Oriented Programming

Semester Project

Submitted By:

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BSCS-5A-Morning

Submitted To:

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Index.jsp

```
<%@page import="com.*" contentType="text/html" pageEncoding="UTF-8"%>
```

```
<%
    System.out.print(session.getAttribute("name"));
    if (session.getAttribute("name") == null) {

        response.sendRedirect("Login.jsp");
    }
%>
```

```
<body>
    <%
        Employee e = new Employee();
        EmployeeDAO dao = new EmployeeDAO();
        if (request.getParameter("id") != null) {
            e.id = request.getParameter("id");
            e = dao.SelectById(e);
        }
    %>
    <...29 lines />
    <br>
    <br>
    <center>
        <div style="margin-top: 5%; padding-top: 10px; width: 400px; height: 450px; background-color: #f0f0f0;">
            <h3>
                <%
                    if (request.getParameter("id") != null) {
                        %> Update Employee Details<%
                    } else {
                        Add Employee Details<%
                    }
                %>
            </h3>
        </div>
    </center>
</body>
```

```
<form method="POST" action="index.jsp" >
    <table cellpadding="10px">
        <tr>
            <td><label for="id">ID:</label></td>
            <td><input class="input" type="text" id="id" name="id" style="" value="<%=request.getParameter("id") != null ? e.id : ""%>" /></td>
        </tr>
        <tr>
            <td><label for="name">Name:</label></td>
            <td><input class="input" type="text" id="name" name="name" value="<%=request.getParameter("id") != null ? e.name : ""%>" /></td>
        </tr>
        <tr>
            <td><label for="designation">Designation:</label></td>
            <td><input class="input" type="text" id="designation" name="designation" style="" value="<%=request.getParameter("id") != null ? e.designation : ""%>" /></td>
        </tr>
        <tr>
            <td><label for="hiringdate">Hiring Date:</label></td>
            <td><input class="input" type="text" id="hiringdate" name="hiringdate" value="<%=request.getParameter("id") != null ? e.hiringdate : ""%>" /></td>
        </tr>
        <tr>
            <td><label for="contact">Contact No:</label></td>
            <td><input class="input" type="text" id="contact" name="contact" value="<%=request.getParameter("id") != null ? e.contact : ""%>" /></td>
        </tr>
    </table>
    <input name="<%=request.getParameter("id") != null ? "Update" : "Add"%>" type="submit" value="<%=request.getParameter("id") != null ? "Update" : "Add"%>" />
</form>
```

```
</body><%  
    if (request.getParameter("Add") != null) {  
  
        e.id = request.getParameter("id");  
        e.contact_no = request.getParameter("contact");  
        e.name = request.getParameter("name");  
        e.hiring_date = request.getParameter("hiringdate");  
        e.designation = request.getParameter("designation");  
        int result = dao.insert(e);  
        if (result > 0) {  
            response.sendRedirect("profile.jsp");  
        }  
    }  
    if (request.getParameter("Update") != null) {  
  
        e.id = request.getParameter("id");  
        e.contact_no = request.getParameter("contact");  
        e.name = request.getParameter("name");  
        e.hiring_date = request.getParameter("hiringdate");  
        e.designation = request.getParameter("designation");  
        int result = dao.update(e);  
        if (result > 0) {  
            response.sendRedirect("profile.jsp");  
        }  
    }  
%></html>
```

Login.jsp

```
<%@page import="java.sql.ResultSet"%>
<%@page import="com.*" contentType="text/html" pageEncoding="UTF-8"%>
<%
    if (session.getAttribute("name") != null) {
        response.sendRedirect("index.jsp");
    }
%>
<!DOCTYPE html>
<html>
    <...27 lines />
    <body style="background: linear-gradient(to bottom, #33ccff 0%, #ff99cc 100%); ">
        <center>
            <div style="margin-top: 5%; width: 400px; height: 550px; background-color: #F9FCFC; border-radius: 15px">
                
                <h4>
                    Login
                </h4>
                <form method="POST" action="Login.jsp" >
                    <br><label for="email">Email:</label>
                    <input class="input" type="text" id="email" name="email" style="margin-left: 27px"><br><br>
                    <label for="password">Password:</label>
                    <input class="input" type="password" id="password" name="password"><br><br>
                    <input name="login" type="submit" value="Login" style="font-size: 14px; background: #33ccff; padding: 3px; border: 1px solid #ccc;" />
                </form>
                <h5><a style="text-decoration: none" href="#"> Forgot your password?</a></h5>
                <h5>Don't have an account? <a style="text-decoration: none" href="register.jsp"> Sign Up</a></h5>
            </div>
        </center>
    </body>
<%
    if(request.getParameter("login")!=null)
    {
        User u = new User();
        UserDAO dao = new UserDAO();
        u.email = request.getParameter("email");
        u.password = request.getParameter("password");
        u = dao.verifyUser(u);
        if(!u.name.isEmpty()){
            session.setAttribute("name", u.name);
            response.sendRedirect("index.jsp");
        }
        else{
            out.println("Invalid Information!!");
            out.println("Try Again");
        }
    }
%>
</html>
```

Employee.java

```
public class Employee {
    public String id, hiring_date, name, designation, contact_no;
}
```

User.java

```
public class User {  
    public String name,CNIC,gender,password,country,email;  
}
```

Register.jsp

```
<%  
    if (session.getAttribute("name") != null) {  
        response.sendRedirect("index.jsp");  
    }  
%>  
  
<%@page import="com.*" contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
    <...27 lines />  
    <body style="background: linear-gradient(to bottom, #33ccff 0%, #ff99cc 100%); ">  
        <center>  
            <div style="margin-top: 5%; width: 400px; height: 600px; background-color: #F9FCFC; border-radius: 15px">  
                  
                <h4>  
                    Registration  
                </h4>  
                <form method="POST" action="register.jsp" >  
                    <label for="name">Name:</label>  
                    <input class="input" type="text" id="name" name="name" style="margin-left: 27px"><br>  
                    <br><label for="CNIC">CNIC:</label>  
                    <input class="input" type="text" id="CNIC" name="CNIC" style="margin-left: 27px"><br>  
                    <br><label for="email">Email:</label>  
                    <input class="input" type="email" id="CNIC" name="email" style="margin-left: 27px"><br>  
                    <br><label for="gender">Gender:</label>  
                    <input class="" type="radio" name="gender" value="Male">Male  
                    <input class="" type="radio" name="gender" value="Female">Female <br>  
                    <br><label for="password">Password:</label>  
                    <input class="input" type="password" id="password" name="password"><br>  
                    <br><input name="register" type="submit" value="Register" style="font-size: 14px; background: #33ccff; padding:  
                </form>  
                <h5>Have already an account? <a style="text-decoration: none" href="Login.jsp"> Sign In</a></h5>  
            </div>  
        </center>  
    </body>  
<%  
    if(request.getParameter("register")!=null)  
    {  
        try {  
            User s = new User();  
            s.name=request.getParameter("name");  
            s.CNIC=request.getParameter("CNIC");  
            s.gender=request.getParameter("gender");  
            s.email=request.getParameter("email");  
            s.country=request.getParameter("country");  
            s.password=request.getParameter("password");  
            UserDao dao = new UserDao();  
            int chk = dao.Register(s);  
            System.out.print(chk);  
            if(chk>0){  
                response.sendRedirect("index.jsp");  
            }  
        }  
        catch(Exception ex){  
            System.out.println(ex.toString());  
        }  
    }  
}
```


Profile.jsp:

```
<%@page import="com.*,java.sql.*" contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%
    if (session.getAttribute("name") == null) {
        response.sendRedirect("Login.jsp");
    }
%>
<%
    Employee emp = new Employee();
    EmployeeDAO dao = new EmployeeDAO();
    ArrayList<Employee> list = dao.SelectAll();
%>
<html>
    <...5 lines />
    <body>
        <...29 lines />

        <table class="table mt-5">
            <thead>
                <tr>
                    <th scope="col">ID</th>
                    <th scope="col">Name</th>
                    <th scope="col">Hiring Date</th>
                    <th scope="col">Designation</th>
                    <th scope="col">Contact No</th>
                    <th scope="col">Actions</th>
                </tr>
            </thead>
            <tbody>
                <%
                    for (Employee e : list) {
                %>
                <tr>
                    <td><%=e.id%></td>
                    <td><%=e.name%></td>
                    <td><%=e.hiring_date%></td>
                    <td><%=e.designation%></td>
                    <td><%=e.contact_no%></td>
                    <td><a href="index.jsp?id=<%=e.id%>"><button style="background: #33ccff">Update</button>
                </tr>
                <%
                    }
                %>
            </tbody>
        </table>
    </body>
    <%
        if (request.getParameter("id") != null) {
            emp.id = request.getParameter("id");
            int result = dao.delete(emp);
            if (result > 0) {
                response.sendRedirect("profile.jsp");
            }
        }
    %>
</html>
```

UserDAO.java

```
public class UserDAO {

    public UserDAO() {
        Connection();
    }
    Connection conn;
    void Connection() {
        try{
            Class.forName("com.mysql.jdbc.Driver");
            conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment4", "root", "");
        }catch(SQLException e){
            System.out.print(e);
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(UserDAO.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    public int Register(User i){
        int res = 0;
        try{
            PreparedStatement pst = conn.prepareStatement("insert into users values(?, ?, ?, ?,?,?,?)");
            pst.setString(1, null);
            pst.setString(2, i.name);
            pst.setString(3, i.CNIC);
            pst.setString(4, i.gender);
            pst.setString(5, i.password);
            pst.setString(6, i.country);
            pst.setString(7, i.email);
            res = pst.executeUpdate();
        }catch(SQLException e){
            System.out.print(e);
        }
        return res;
    }

    public User verifyUser(User i){
        ResultSet res=null;
        try{
            PreparedStatement pst = conn.prepareStatement("select * from users where email=? and password=?")
            pst.setString(1, i.email);
            pst.setString(2, i.password);
            res = pst.executeQuery();
            i.name = "";
            while(res.next()){
                i.name =res.getString("name");
                i.CNIC =res.getString("CNIC");
            }
        }
        catch(SQLException e){
            System.out.println(e);
        }
        return i;
    }
}
```

EmployeeDAO.java

```
public EmployeeDAO() {
    Connection();
}
Connection conn;
void Connection() {
    try{
        Class.forName("com.mysql.jdbc.Driver");
        String url = "jdbc:mysql://localhost:3306/assignment4";
        conn = DriverManager.getConnection(url, "root", "");
    }catch(SQLException e){
        System.out.print(e);
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(UserDAO.class.getName()).log(Level.SEVERE, null, ex);
    }
}
public int insert(Employee e){
    int result = 0;
    try{
        String qry = "insert into employees values(?,?,?,?,?)";
        PreparedStatement pst = conn.prepareStatement(qry);
        pst.setString(1, e.id);
        pst.setString(2, e.hiring_date);
        pst.setString(3, e.name);
        pst.setString(4, e.designation);
        pst.setString(5, e.contact_no);
        result = pst.executeUpdate();
    }catch(SQLException ex){
        System.out.print(ex);
    }
    return result;
}

public int update(Employee e){
    int result = 0;
    try{
        PreparedStatement pst = conn.prepareStatement("UPDATE employees SET hiring_date = ? , "
            + "name = ? , designation = ? , contact_no = ? WHERE id = ?");
        pst.setString(1, e.hiring_date);
        pst.setString(2, e.name);
        pst.setString(3, e.designation);
        pst.setString(4, e.contact_no);
        pst.setString(5, e.id);
        result = pst.executeUpdate();
    }catch(SQLException ex){
        System.out.print(ex);
    }
    return result;
}

public ArrayList SelectAll() {
    ResultSet res = null;
    ArrayList<Employee> list = new ArrayList<Employee>();
    try{
        PreparedStatement pst = conn.prepareStatement("SELECT * FROM employees");
        res = pst.executeQuery();
        while(res.next()){
            Employee emp = new Employee();
            emp.id = res.getString("id");
            emp.name = res.getString("name");
        }
    }
}
```



```

        emp.designation = res.getString("designation");
        emp.hiring_date = res.getString("hiring_date");
        emp.contact_no = res.getString("contact_no");
        list.add(emp);
    }
} catch (SQLException ex) {
    System.out.print(ex);
}
return list;
}

public Employee SelectById(Employee emp) {
    ResultSet res = null;
    try {
        PreparedStatement pst = conn.prepareStatement("SELECT * FROM employees where id = ?");
        pst.setString(1, emp.id);
        res = pst.executeQuery();
        while (res.next()) {
            emp.contact_no = res.getString("contact_no");
            emp.designation = res.getString("designation");
            emp.hiring_date = res.getString("hiring_date");
            emp.name = res.getString("name");
        }

    } catch (SQLException ex) {
        System.out.print(ex);
    }
    return emp;
}

public int delete(Employee e) {
    int result = 0;
    try {
        PreparedStatement pst = conn.prepareStatement("DELETE FROM employees WHERE id = ?");
        pst.setString(1, e.id);
        result = pst.executeUpdate();
    } catch (SQLException ex) {
        System.out.print(ex);
    }
    return result;
}
}

```