

## JSP + Servlets CRUD operation

### Register.jsp

```
<%@ page language="java" contentType="text/html;
charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="SaveServlet">
Username::<input type="text" name="username">
Password::<input type="password" name="password">
<input type="submit" value="submit"> </button>
</form>
<a href="ViewServlet">View Employee List</a>
</body>
</html>
```

### Employee.java

```
package com.test;

public class Employee {

    int id;
    String username;
    String password;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }
}
```

```

    }

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    @Override
    public String toString() {
        return "Employee [id=" + id + ", username=" +
username + ", password=" + password + "]";
    }

}

```

### **SaveServlet.java**

```

package com.test;

import java.io.IOException;

import java.util.ArrayList;

import java.util.List;

import javax.servlet.RequestDispatcher;

```

```

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/SaveServlet ")

public class SaveServlet extends HttpServlet {

    /**
     *
     */

    private static final long serialVersionUID = -711373866551588448L;

    protected void service(HttpServletRequest request, HttpServletResponse
response)

        throws ServletException, IOException {

        //get the data from user
        String name = request.getParameter("username");
        System.out.println("name>>" + name);
        String pass = request.getParameter("password");
        System.out.println("pass>>" + pass);

        //process the data
        Employee employee= new Employee();
        employee.setUsername(name);

```

```
employee.setPassword(pass);
```

```
DBUTIL.save(employee);
```

```
}
```

```
}
```

### ViewServlet.java

```
package com.test;
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

```
import java.util.List;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
/**
```

```
 * Servlet implementation class ViewServlet
```

```
 */
```

```
@WebServlet("/ViewServlet")
```

```
public class ViewServlet extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doGet(HttpServletRequest request,  
        HttpServletResponse response) throws ServletException,  
        IOException {
```

```
        PrintWriter out= response.getWriter();
```

```
        out.print("<h1>Employee List>></h1>");
```

```
        List<Employee> list=DBUTIL.getAllEmployee();
```

```
        System.out.println("list>>" + list);
```

```

        out.print("<table border=1 width='100%'>");

        out.print("<tr><th>ID</th><th>Username</th><th>Password<
/th>");
        for(Employee e: list) {

            out.print("<tr><td>" + e.getId() + "</td><td>" + e.getUsername
() + "</td><td>" + e.getPassword() + "</td><td><a
href='DeleteServlet?id=" + e.getId() + "'>Delete</a></td></tr>")
;
        }
    }
}

```

### **DeleteServlet.java**

```

package com.test;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class DeleteServlet
 */
@WebServlet("/DeleteServlet")
public class DeleteServlet extends HttpServlet {

```

```

        private static final long serialVersionUID = 1L;

        protected void doGet(HttpServletRequest request, HttpServletResponse
response)

            throws ServletException, IOException {

                String empId=request.getParameter("id");

                int id=Integer.parseInt(empId);

                //System.out.println("id>>" +id);

                DBUTIL.delete(id);

            }

    }

```

DBUTIL.java

```

package com.test;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.*;

public class DBUTIL {

    // design utility for connection

    public static Connection getConnection() throws
SQLException {

```

```

        Connection con = null;
        try {
            Class.forName("com.mysql.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tes
t", "root", "root");
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }

        return con;
    }

```

```

    public static void save(Employee employee) {

        try {
            Connection con = DBUTIL.getConnection();
            PreparedStatement ps =
con.prepareStatement("insert into
employee(username,password)values(?,?)");
            ps.setString(1, employee.getUsername());
            ps.setString(2, employee.getPassword());

            ps.executeUpdate();
            con.close();
        } catch (Exception e) {
            e.printStackTrace();
        }

    }

```

```

    public static List<Employee> getAllEmployee() {

        List<Employee> list = new ArrayList<Employee>();

        try {
            Connection con = DBUTIL.getConnection();

```

```

        PreparedStatement ps =
con.prepareStatement("select * from employee");
        ResultSet rs = ps.executeQuery();
        while (rs.next()) {
            Employee employee = new Employee();
            employee.setId(rs.getInt(1));
            employee.setUsername(rs.getString(2));
            employee.setPassword(rs.getString(3));
            list.add(employee);
        }
    } catch (Exception e) {
        e.printStackTrace();
    }

    return list;

}

```

```

public static int delete(int id) {

    int status=0;
    try {

        Connection con = DBUTIL.getConnection();
        PreparedStatement ps =
con.prepareStatement("delete from employee where id=?");
        ps.setInt(1, id);
        status=ps.executeUpdate();
    } catch (Exception e) {
        e.printStackTrace();
    }
    return status;
}
}

```