**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** 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{

**protected** **void** service(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

// get the data from user or jsp page

String Username = request.getParameter("username");

System.***out***.println("Username is>>" + Username);

String Password = request.getParameter("password");

System.***out***.println("Password is>>" + Password);

// process data

Employee employee = **new** Employee();

// how to set the value into objects

employee.setUsername(Username);

employee.setPassword(Password);

DBUITL.*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 {

**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;

@WebServlet("/DeleteServlet")

**public** **class** DeleteServlet **extends** HttpServlet {

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

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

// how to get id here

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

**int** id = Integer.*parseInt*(employeeId);

System.***out***.println("id is>>" + id);

DBUITL.*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/test", "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;

}

}