CRUD Application

Web.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xmlns:web=*"http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"* id=*"WebApp\_ID"* version=*"2.5"*>

<display-name>crudapp</display-name>

<welcome-file-list>

<welcome-file>/jsp/user.jsp</welcome-file>

</welcome-file-list>

<servlet>

<description></description>

<servlet-name>userHandler</servlet-name>

<servlet-class>com.durga.user.handler.UserHandler</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>userHandler</servlet-name>

<url-pattern>/userHandler</url-pattern>

</servlet-mapping>

</web-app>

User.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Add New User</title>

</head>

<body>

<form method=*"POST"* action=*'userHandler'* name=*"frmAddUser"*>

<input type=*"hidden"* name=*"action"* value=*"insert"* />

<p><b>Add New Record</b></p>

<table>

<tr>

<td>First Name</td>

<td><input type=*"text"* name=*"firstName"* /></td>

</tr>

<tr>

<td>Middle Name</td>

<td><input type=*"text"* name=*"middleName"* /></td>

</tr>

<tr>

<td>Last Name</td>

<td><input type=*"text"* name=*"lastName"* /></td>

</tr>

<tr>

<td>Preferred User ID</td>

<td><input type=*"text"* name=*"userid"* /></td>

</tr>

<tr>

<td>Preferred Password</td>

<td><input type=*"password"* name=*"userpwd"* /></td>

</tr>

<tr>

<td>Retype Password</td>

<td><input type=*"text"* name=*"userrtpwd"* /></td>

</tr>

<tr>

<td>Gender</td>

<td>

<input type=*"radio"* name=*"gender"* value=*"male"* checked> Male<br>

<input type=*"radio"* name=*"gender"* value=*"female"*> Female<br>

<input type=*"radio"* name=*"gender"* value=*"other"*> Other

</td>

</tr>

<tr>

<td>Zip Code</td>

<td><input type=*"text"* name=*"zip"* /></td>

</tr>

<tr>

<td></td>

<td><input type=*"submit"* value=*"Submit"* /></td>

</tr>

</table>

</form>

<p><a href=*"userHandler?action=listUser"*>View-All-Records</a></p>

</body>

</html>

UserBean.java

===============

**package** com.durga.user.model;

**public** **class** UserBean {

**private** String userId;

**private** String userPassword;

**private** String userFirstName;

**private** String userMiddleName;

**private** String userLastName;

**private** String userGender;

**private** String userZipCode;

**public** String getUserId() {

**return** userId;

}

**public** **void** setUserId(String userId) {

**this**.userId = userId;

}

**public** String getUserPassword() {

**return** userPassword;

}

**public** **void** setUserPassword(String userPassword) {

**this**.userPassword = userPassword;

}

**public** String getUserFirstName() {

**return** userFirstName;

}

**public** **void** setUserFirstName(String userFirstName) {

**this**.userFirstName = userFirstName;

}

**public** String getUserMiddleName() {

**return** userMiddleName;

}

**public** **void** setUserMiddleName(String userMiddleName) {

**this**.userMiddleName = userMiddleName;

}

**public** String getUserLastName() {

**return** userLastName;

}

**public** **void** setUserLastName(String userLastName) {

**this**.userLastName = userLastName;

}

**public** String getUserGender() {

**return** userGender;

}

**public** **void** setUserGender(String userGender) {

**this**.userGender = userGender;

}

**public** String getUserZipCode() {

**return** userZipCode;

}

**public** **void** setUserZipCode(String userZipCode) {

**this**.userZipCode = userZipCode;

}

@Override

**public** String toString() {

**return** "User [userId=" + userId + ", userPassword=" + userPassword + ", userFisrtName=" + userFirstName

+ ", userMiddleName=" + userMiddleName + ", userLastName=" + userLastName + ", userGender=" + userGender

+ ", userZIpCode=" + userZipCode + "]";

}

}

UserHandler.java

=====================

**package** com.durga.user.handler;

**import** java.io.IOException;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** com.durg.user.dao.UserDao;

**import** com.durga.user.model.UserBean;

**public** **class** UserHandler **extends** HttpServlet {

/\*\*

\*

\*/

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

**private** **static** String *INSERT* = "/jsp/user.jsp";

**private** **static** String *Edit* = "/jsp/edit.jsp";

**private** **static** String *UserRecord* = "/jsp/listUser.jsp";

**private** UserDao dao;

/\*

public UserHandler() {

super();

dao = new UserDao();

}\*/

@Override

**public** **void** init() **throws** ServletException {

// **TODO** Auto-generated method stub

**super**.init();

dao = **new** UserDao();

}

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

String redirect="";

String userId = request.getParameter("userid");

String action = request.getParameter("action");

**if**(!((userId)== **null**) && action.equalsIgnoreCase("insert"))

{

UserBean userBean = **new** UserBean();

userBean.setUserId(request.getParameter("userid"));

userBean.setUserFirstName(request.getParameter("firstName"));

userBean.setUserMiddleName(request.getParameter("middleName"));

userBean.setUserLastName(request.getParameter("lastName"));

userBean.setUserPassword(request.getParameter("userpwd"));

userBean.setUserGender(request.getParameter("gender"));

userBean.setUserZipCode(request.getParameter("zip"));

dao.addUser(userBean);

redirect = *UserRecord*;

request.setAttribute("users", dao.getAllUsers());

System.***out***.println("Record Added Successfully");

}

**else** **if** (action.equalsIgnoreCase("delete")){

userId = request.getParameter("userId");

dao.removeUser(userId);

redirect = *UserRecord*;

request.setAttribute("users", dao.getAllUsers());

System.***out***.println("Record Deleted Successfully");

}**else** **if** (action.equalsIgnoreCase("editform")){

redirect = *Edit*;

} **else** **if** (action.equalsIgnoreCase("edit")){

UserBean userBean = **new** UserBean();

userBean.setUserId(request.getParameter("userId"));

userBean.setUserFirstName(request.getParameter("firstName"));

userBean.setUserMiddleName(request.getParameter("middleName"));

userBean.setUserLastName(request.getParameter("lastName"));

userBean.setUserPassword(request.getParameter("userpwd"));

userBean.setUserGender(request.getParameter("gender"));

userBean.setUserZipCode(request.getParameter("zip"));

dao.editUser(userBean);

request.setAttribute("user", userBean);

redirect = *UserRecord*;

System.***out***.println("Record updated Successfully ;");

} **else** **if** (action.equalsIgnoreCase("listUser")){

redirect = *UserRecord*;

request.setAttribute("users", dao.getAllUsers());

} **else** {

redirect = *INSERT*;

}

RequestDispatcher rd = request.getRequestDispatcher(redirect);

rd.forward(request, response);

}

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

doGet(request, response);

}

}

UserDao.java

**package** com.durg.user.dao;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.util.ArrayList;

**import** java.util.List;

**import** com.durga.db.connect.ConnectionProvider;

**import** com.durga.user.model.UserBean;

**public** **class** UserDao {

**private** Connection conn;

**public** UserDao() {

conn = ConnectionProvider.*getConnection*();

}

**public** **void** addUser(UserBean userBean) {

**try** {

PreparedStatement pst = conn.prepareStatement("INSERT INTO users values(?,?,?,?,?,?,?)");

pst.setString(1, userBean.getUserId());

pst.setString(2, userBean.getUserPassword());

pst.setString(3, userBean.getUserFirstName());

pst.setString(4, userBean.getUserMiddleName());

pst.setString(5, userBean.getUserLastName());

pst.setString(6, userBean.getUserGender());

pst.setString(7, userBean.getUserZipCode());

pst.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public** **void** removeUser(String userId) {

**try** {

String sql = "DELETE FROM users WHERE user\_id=?";

PreparedStatement pst = conn.prepareStatement(sql);

pst.setString(1, userId);

pst.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public** **void** editUser(UserBean userBean) {

**try** {

String sql = "UPDATE users SET user\_first\_name=?, user\_middle\_name=?,user\_last\_name=?,user\_gender=?,user\_zip\_code=? WHERE user\_id=?";

PreparedStatement pst = conn.prepareStatement(sql);

pst.setString(1, userBean.getUserFirstName());

pst.setString(2, userBean.getUserMiddleName());

pst.setString(3, userBean.getUserLastName());

pst.setString(4, userBean.getUserGender());

pst.setString(5, userBean.getUserZipCode());

pst.setString(6, userBean.getUserId());

pst.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

**public** List <UserBean> getAllUsers() {

List <UserBean> users = **new** ArrayList<UserBean>();

**try** {

String sql = "SELECT \* FROM users";

PreparedStatement ps = conn.prepareStatement(sql);

ResultSet rs = ps.executeQuery();

**while** (rs.next()) {

UserBean userBean = **new** UserBean();

userBean.setUserId(rs.getString(1));

userBean.setUserFirstName(rs.getString(3));

userBean.setUserMiddleName(rs.getString(4));

userBean.setUserLastName(rs.getString(5));

userBean.setUserGender(rs.getString(6));

userBean.setUserZipCode(rs.getString(7));

users.add(userBean);

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** users;

}

**public** UserBean getUserById(String userId) {

UserBean userBean = **new** UserBean();

**try** {

String sql = "SELECT \* FROM users WHERE user\_id=?";

PreparedStatement pst = conn.prepareStatement(sql);

pst.setString(1, userId);

ResultSet rs = pst.executeQuery();

**if** (rs.next()) {

userBean = **new** UserBean();

userBean.setUserId(rs.getString(1));

userBean.setUserFirstName(rs.getString(3));

userBean.setUserMiddleName(rs.getString(4));

userBean.setUserLastName(rs.getString(5));

userBean.setUserGender(rs.getString(6));

userBean.setUserZipCode(rs.getString(7));

}

} **catch** (SQLException e) {

e.printStackTrace();

}

**return** userBean;

}

}

ConnectionProvider.java

**package** com.durga.db.connect;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**public** **class** ConnectionProvider {

**private** **static** Connection *con* = **null**;

**public** **static** Connection getConnection() {

**if** (*con* != **null**)

**return** *con*;

**else** {

**try** {

String driver = "oracle.jdbc.driver.OracleDriver";

String url = "jdbc:oracle:thin:@localhost:1521:orcl";

String user = "scott";

String password = "tiger";

Class.*forName*(driver);

*con* = DriverManager.*getConnection*(url, user, password);

} **catch** (ClassNotFoundException cnfe) {

System.***out***.println(cnfe);

} **catch** (SQLException sqe) {

System.***out***.println(sqe);

}

**return** *con*;

}

}

}

listUser.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<%@ page import=*"com.durga.user.model.UserBean"*%>

<%@ page import=*"com.durg.user.dao.UserDao"*%>

<%@ page import=*"java.util.\*"*%>

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>All User</title>

</head>

<body>

<%

UserDao dao = **new** UserDao();

List<UserBean> userList = dao.getAllUsers();

%>

<table border=*"1"*>

<tr>

<th>User Id</th>

<th>First Name</th>

<th>Middle Name</th>

<th>Last Name</th>

<th>Gender</th>

<th>Zip Code</th>

</tr>

<tr>

<%

**for** (UserBean user : userList) {

%>

<td><%=user.getUserId()%></td>

<td><%=user.getUserFirstName()%></td>

<td><%=user.getUserMiddleName()%></td>

<td><%=user.getUserLastName()%></td>

<td><%=user.getUserGender()%></td>

<td><%=user.getUserZipCode()%></td>

<td> <a href=*"userHandler?action=editform&userId=*<%=user.getUserId()%>*"*>Update</a></td>

<td> <a href=*"userHandler?action=delete&userId=*<%=user.getUserId()%>*"*>Delete</a></td>

</tr>

<%

}

%>

</table>

<p><a href=*"userHandler?action=insert"*>Add User</a></p>

</body>

</html>

Edit.jsp

==========

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<%@ page import=*"com.durga.user.model.UserBean"*%>

<%@ page import=*"com.durg.user.dao.UserDao"*%>

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Edit User</title>

</head>

<body>

<%

UserBean user = **new** UserBean();

%>

<%

UserDao dao = **new** UserDao();

%>

<form method=*"POST"* action=*'userHandler'* name=*"frmEditUser"*><input

type=*"hidden"* name=*"action"* value=*"edit"* />

<%

String userId = request.getParameter("userId");

**if** (!((userId) == **null**)) {

user = dao.getUserById(userId);

%>

<table>

<tr>

<td>User ID</td>

<td><input type=*"text"* name=*"userId"* readonly=*"readonly"*

value=*"*<%=user.getUserId()%>*"*></td>

</tr>

<tr>

<td>First Name</td>

<td><input type=*"text"* name=*"firstName"* value=*"*<%=user.getUserFirstName()%>*"* /></td>

</tr>

<tr>

<td>Middle Name</td>

<td><input type=*"text"* name=*"middleName"* value=*"*<%=user.getUserMiddleName()%>*"*/></td>

</tr>

<tr>

<td>Last Name</td>

<td><input type=*"text"* name=*"lastName"* value=*"*<%=user.getUserLastName()%>*"*/></td>

</tr>

<tr>

<td>Gender</td>

<td><input type=*"text"* name=*"gender"* value=*"*<%=user.getUserGender()%>*"* /></td>

</tr>

<tr>

<td>Zip Code</td>

<td><input type=*"text"* name=*"firstName"* value=*"*<%=user.getUserZipCode()%>*"*/></td>

</tr>

<tr>

<td><input type=*"submit"* value=*"Update"* /></td>

</tr>

</table>

<%

} **else**

out.println("ID Not Found");

%>

</form>

</body>

</html>