JSP CRUD Example

We can easily create CRUD Example in JSP. Here, we are using DAO files for database and JSTL for traversing records.

SQL File to Import in MySQL

Database: `test`;

CREATE TABLE IF NOT EXISTS `register` (

`id` int(10) NOT NULL AUTO\_INCREMENT,

`name` varchar(100) NOT NULL,

`password` varchar(100) NOT NULL,

`email` varchar(100) NOT NULL,

`sex` varchar(100) NOT NULL,

`country` varchar(100) NOT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=21 ;

INSERT INTO `register` (`id`, `name`, `password`, `email`, `sex`, `country`) VALUES

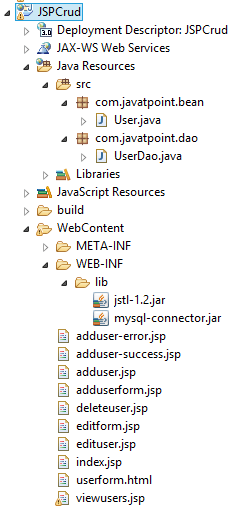
(17, 'arun', 'kumar', 'arun@gmail.com', 'Male', 'India'),

(19, 'sonoo', 'jaiswal', 'sonoo@javatpoint.com', 'male', 'India'),

(20, 'Ashok', 'ashok', 'ashok@javatpoint.com', 'male', 'India');

CRUD Example

**Directory Structure in Eclipse**

  
**index.jsp**

<!DOCTYPE html>

<html>

<head>

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

<title>JSP CRUD Example</title>

</head>

<body>

<h1>JSP CRUD Example</h1>

<a href="adduserform.jsp">Add User</a>

<a href="viewusers.jsp">View Users</a>

</body>

</html>

**adduserform.jsp**

<!DOCTYPE html>

<html>

<head>

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

<title>Add User Form</title>

</head>

<body>

<jsp:include page="userform.html"></jsp:include>

</body>

</html>

**userform.html**

**<a** href="viewusers.jsp"**>**View All Records**</a><br/>**

**<h1>**Add New User**</h1>**

**<form** action="adduser.jsp" method="post"**>**

**<table>**

**<tr><td>**Name:**</td><td><input** type="text" name="name"**/></td></tr>**

**<tr><td>**Password:**</td><td>**

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

**<tr><td>**Email:**</td><td><input** type="email" name="email"**/></td></tr>**

**<tr><td>**Sex:**</td><td>**

**<input** type="radio" name="sex" value="male"**/>**Male

**<input** type="radio" name="sex" value="female"**/>**Female **</td></tr>**

**<tr><td>**Country:**</td><td>**

**<select** name="country" style="width:155px"**>**

**<option>**India**</option>**

**<option>**Pakistan**</option>**

**<option>**Afghanistan**</option>**

**<option>**Berma**</option>**

**<option>**Other**</option>**

**</select>**

**</td></tr>**

**<tr><td** colspan="2"**><input** type="submit" value="Add User"**/></td></tr>**

**</table>**

**</form>**

**adduser.jsp**

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

<jsp:useBean id="u" **class**="com.javatpoint.bean.User"></jsp:useBean>

<jsp:setProperty property="\*" name="u"/>

<%

**int** i=UserDao.save(u);

**if**(i>0){

response.sendRedirect("adduser-success.jsp");

}**else**{

response.sendRedirect("adduser-error.jsp");

}

%>

**User.java**

**package** com.javatpoint.bean;

**public** **class** User {

**private** **int** id;

**private** String name,password,email,sex,country;

//generate getters and setters

}

**UserDao.java**

**package** com.javatpoint.dao;

**import** java.sql.\*;

**import** java.util.ArrayList;

**import** java.util.List;

**import** com.javatpoint.bean.User;

**public** **class** UserDao {

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

    Connection con=**null**;

**try**{

        Class.forName("com.mysql.jdbc.Driver");

        con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test10","root","root");

    }**catch**(Exception e){System.out.println(e);}

**return** con;

}

**public** **static** **int** save(User u){

**int** status=0;

**try**{

        Connection con=getConnection();

        PreparedStatement ps=con.prepareStatement(

"insert into register(name,password,email,sex,country) values(?,?,?,?,?)");

        ps.setString(1,u.getName());

        ps.setString(2,u.getPassword());

        ps.setString(3,u.getEmail());

        ps.setString(4,u.getSex());

        ps.setString(5,u.getCountry());

        status=ps.executeUpdate();

    }**catch**(Exception e){System.out.println(e);}

**return** status;

}

**public** **static** **int** update(User u){

**int** status=0;

**try**{

        Connection con=getConnection();

        PreparedStatement ps=con.prepareStatement(

"update register set name=?,password=?,email=?,sex=?,country=? where id=?");

        ps.setString(1,u.getName());

        ps.setString(2,u.getPassword());

        ps.setString(3,u.getEmail());

        ps.setString(4,u.getSex());

        ps.setString(5,u.getCountry());

        ps.setInt(6,u.getId());

        status=ps.executeUpdate();

    }**catch**(Exception e){System.out.println(e);}

**return** status;

}

**public** **static** **int** delete(User u){

**int** status=0;

**try**{

        Connection con=getConnection();

        PreparedStatement ps=con.prepareStatement("delete from register where id=?");

        ps.setInt(1,u.getId());

        status=ps.executeUpdate();

    }**catch**(Exception e){System.out.println(e);}

**return** status;

}

**public** **static** List<User> getAllRecords(){

    List<User> list=**new** ArrayList<User>();

**try**{

        Connection con=getConnection();

        PreparedStatement ps=con.prepareStatement("select \* from register");

        ResultSet rs=ps.executeQuery();

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

            User u=**new** User();

            u.setId(rs.getInt("id"));

            u.setName(rs.getString("name"));

            u.setPassword(rs.getString("password"));

            u.setEmail(rs.getString("email"));

            u.setSex(rs.getString("sex"));

            u.setCountry(rs.getString("country"));

            list.add(u);

        }

    }**catch**(Exception e){System.out.println(e);}

**return** list;

}

**public** **static** User getRecordById(**int** id){

    User u=**null**;

**try**{

        Connection con=getConnection();

        PreparedStatement ps=con.prepareStatement("select \* from register where id=?");

        ps.setInt(1,id);

        ResultSet rs=ps.executeQuery();

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

            u=**new** User();

            u.setId(rs.getInt("id"));

            u.setName(rs.getString("name"));

            u.setPassword(rs.getString("password"));

            u.setEmail(rs.getString("email"));

            u.setSex(rs.getString("sex"));

            u.setCountry(rs.getString("country"));

        }

    }**catch**(Exception e){System.out.println(e);}

**return** u;

}

}

**adduser-success.jsp**

<!DOCTYPE html**>**

**<html>**

**<head>**

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

**<title>**Add User Success**</title>**

**</head>**

**<body>**

**<p>**Record successfully saved!**</p>**

**<jsp:include** page="userform.html"**></jsp:include>**

**</body>**

**</html>**

**adduser-error.jsp**

<!DOCTYPE html**>**

**<html>**

**<head>**

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

**<title>**Add User Error**</title>**

**</head>**

**<body>**

**<p>**Sorry, an error occurred!**</p>**

**<jsp:include** page="userform.html"**></jsp:include>**

**</body>**

**</html>**

**viewusers.jsp**

<!DOCTYPE html**>**

**<html>**

**<head>**

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

**<title>**View Users**</title>**

**</head>**

**<body>**

**<**%@page import="com.javatpoint.dao.UserDao,com.javatpoint.bean.\*,java.util.\*"%**>**

**<**%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%**>**

**<h1>**Users List**</h1>**

**<**%

List**<User>** list=UserDao.getAllRecords();

request.setAttribute("list",list);

%**>**

**<table** border="1" width="90%"**>**

**<tr><th>**Id**</th><th>**Name**</th><th>**Password**</th><th>**Email**</th>**

**<th>**Sex**</th><th>**Country**</th><th>**Edit**</th><th>**Delete**</th></tr>**

**<c:forEach** items="${list}" var="u"**>**

**<tr><td>**${u.getId()}**</td><td>**${u.getName()}**</td><td>**${u.getPassword()}**</td>**

**<td>**${u.getEmail()}**</td><td>**${u.getSex()}**</td><td>**${u.getCountry()}**</td>**

**<td><a** href="editform.jsp?id=${u.getId()}"**>**Edit**</a></td>**

**<td><a** href="deleteuser.jsp?id=${u.getId()}"**>**Delete**</a></td></tr>**

**</c:forEach>**

**</table>**

**<br/><a** href="adduserform.jsp"**>**Add New User**</a>**

**</body>**

**</html>**

**editform.jsp**

<!DOCTYPE html**>**

**<html>**

**<head>**

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

**<title>**Edit Form**</title>**

**</head>**

**<body>**

**<**%@page import="com.javatpoint.dao.UserDao,com.javatpoint.bean.User"%**>**

**<**%

String id=request.getParameter("id");

User u=UserDao.getRecordById(Integer.parseInt(id));

%**>**

**<h1>**Edit Form**</h1>**

**<form** action="edituser.jsp" method="post"**>**

**<input** type="hidden" name="id" value="<%=u.getId() %>"**/>**

**<table>**

**<tr><td>**Name:**</td><td>**

**<input** type="text" name="name" value="<%= u.getName()%>"**/></td></tr>**

**<tr><td>**Password:**</td><td>**

**<input** type="password" name="password" value="<%= u.getPassword()%>"**/></td></tr>**

**<tr><td>**Email:**</td><td>**

**<input** type="email" name="email" value="<%= u.getEmail()%>"**/></td></tr>**

**<tr><td>**Sex:**</td><td>**

**<input** type="radio" name="sex" value="male"**/>**Male

**<input** type="radio" name="sex" value="female"**/>**Female **</td></tr>**

**<tr><td>**Country:**</td><td>**

**<select** name="country"**>**

**<option>**India**</option>**

**<option>**Pakistan**</option>**

**<option>**Afghanistan**</option>**

**<option>**Berma**</option>**

**<option>**Other**</option>**

**</select>**

**</td></tr>**

**<tr><td** colspan="2"**><input** type="submit" value="Edit User"**/></td></tr>**

**</table>**

**</form>**

**</body>**

**</html>**

**edituser.jsp**

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

**<jsp:useBean** id="u" class="com.javatpoint.bean.User"**></jsp:useBean>**

**<jsp:setProperty** property="\*" name="u"**/>**

**<**%

int i=UserDao.update(u);

response.sendRedirect("viewusers.jsp");

%**>**

**deleteuser.jsp**

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

**<jsp:useBean** id="u" class="com.javatpoint.bean.User"**></jsp:useBean>**

**<jsp:setProperty** property="\*" name="u"**/>**

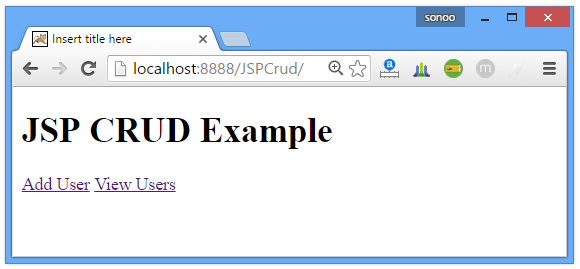
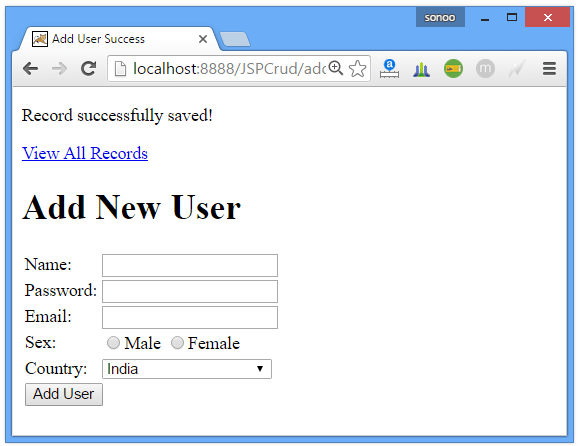
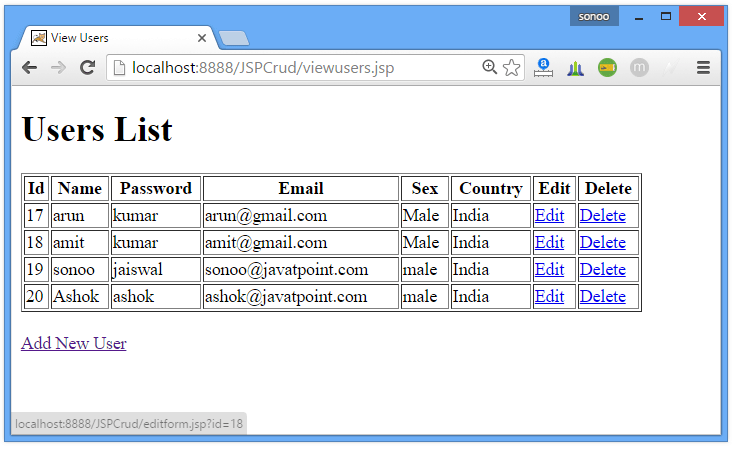
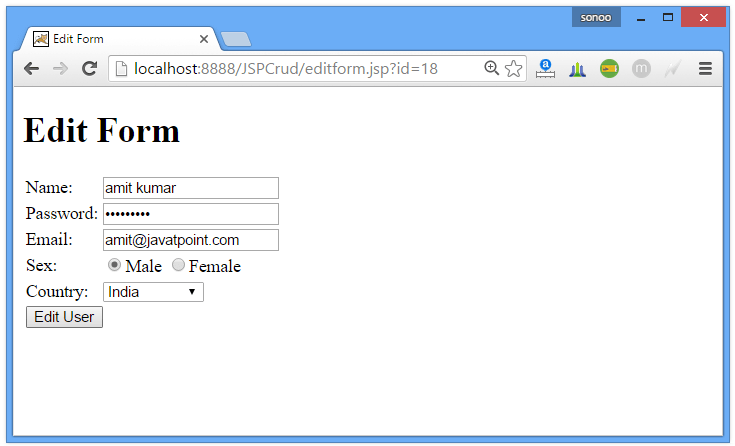
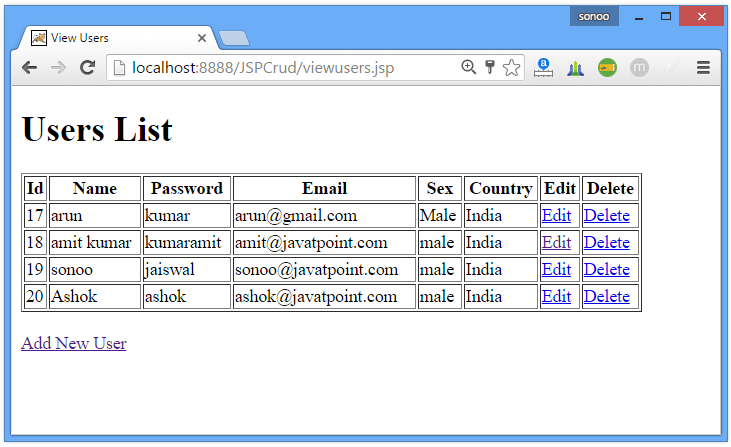
**<**%

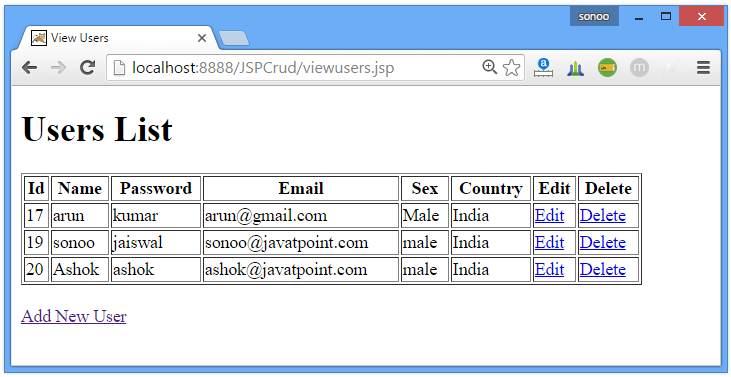
UserDao.delete(u);

response.sendRedirect("viewusers.jsp");

%**>**

Output



Core Java 8 – Topics

* Java History
* How Java is running on our machine?
* JVM, JRE and JDK
* Java Keywords
* Java Data Types
* Java Variables
* Java Operators
* Java Looping Statements
* Java Conditional Blocks
* Java Oops
  + Class
  + Object
  + Methods
  + Inheritance – Single, Multilevel, Hierarchal, Multiple and Hybrid
  + Polymorphism – Method overloading & overriding
  + Encapsulation – Wrapping a data
  + Abstraction – Hiding and Showing functionalities
* Java Arrays
* Java Strings
* Java Exception Handling
* Java File Handling
* Java Multithreading
* Java Collections