

# MVC 模式

- M: Model, 即模型, 对于 JavaBean
- V: View, 即视图, 对应 JSP 页面
- C: Controller, 即控制器, 对应 Servlet

1. 以下为 MVC 实现一个简单的 增删改查 功能

1> 显示记录

学生信息如下:					
ID	姓名	密码	性别	年龄	操作
1001	木塔	2851654	男	25	<a href="#">增加</a> <a href="#">删除</a> <a href="#">更新</a>
1002	小花	34534	女	12	<a href="#">增加</a> <a href="#">删除</a> <a href="#">更新</a>
1003	muta	65465	男	21	<a href="#">增加</a> <a href="#">删除</a> <a href="#">更新</a>
1004	李三	5555	男	23	<a href="#">增加</a> <a href="#">删除</a> <a href="#">更新</a>

2> 增加一条记录

姓名:	<input type="text" value="小木"/>
密码:	<input type="password" value="•••••"/>
性别:	<input checked="" type="radio"/> 男 <input type="radio"/> 女
年龄:	<input type="text" value="23"/>
<input type="button" value="提交"/> <input type="button" value="重置"/>	

[查询](#)

### 3> 修改一条记录

学生ID:	<input type="text" value="1001"/>
学生姓名:	<input type="text" value="木塔"/>
学生密码:	<input type="password" value="••••••"/>
学生性别:	<input checked="" type="radio"/> 男 <input type="radio"/> 女
学生年龄:	<input type="text" value="25"/>
<input type="button" value="提交"/> <input type="button" value="重置"/>	

[查询](#)

### 4> 删除一条记录

.....

程序源代码:

M 层: 模型层

1.封装一条信息的所有属性 `JavaBean.java` , 即 VO

```
package muta.bean;

/**
 * @author help
 * 封装一条信息的所有属性
 */

public class JavaBean {

    private int id;

    private String name;

    private String password;

    private String sex;

    private int age;
```

```
public int getId() {  
    return id;  
}  
  
public void setId(int id) {  
    this.id = id;  
}  
  
public String getName() {  
    return name;  
}  
  
public void setName(String name) {  
    this.name = name;  
}  
  
public String getPassword() {  
    return password;  
}  
  
public void setPassword(String password) {  
    this.password = password;  
}  
  
public String getSex() {  
    return sex;  
}  
  
public void setSex(String sex) {
```

```
        this.sex = sex;

    }

    public int getAge() {

        return age;

    }

    public void setAge(int age) {

        this.age = age;

    }

}
```

## 2.封装数据库连接以及操作 **JavaBean** 所用到的方法，即 **DAO**

```
package muta.bean;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;
```

```
/**
 * @author help
 *操作数据库的方法
 */

public class SqlBean {

    Connection con;

    PreparedStatement pre;

    ResultSet rs;

    public SqlBean()

    {

        try {

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

        } catch (ClassNotFoundException e) {

            e.printStackTrace();

        }

        try {

            con=DriverManager.getConnection("jdbc:mysql://127.0.0.1:3306/MyServlet","root","122828");

        } catch (SQLException e) {

            e.printStackTrace();

        }

    }

}
```

```

/**
 * @author help
 *
 *插入新的一条记录
 * @return
 */

public int getInsert(String sql,JavaBean jBean)
{
    int count =0;

    try {

        pre = con.prepareStatement(sql);

        pre.setString(1,jBean.getName());

        pre.setString(2,jBean.getPassword());

        pre.setString(3,jBean.getSex());

        pre.setInt(4,jBean.getAge());

        count=pre.executeUpdate();

    } catch (SQLException e) {

        e.printStackTrace();

    }

    finally

{

    try {

```

```

        pre.close();

        con.close();

    } catch (SQLException e) {

        // TODO Auto-generated catch block

        e.printStackTrace();

    }

}

return count;

}

/**
 * @author help
 *
 * 删除一条记录
 * @return
 */

public int getDelete(String sql,int id)

{

    int count =0;

    try {

        pre = con.prepareStatement(sql);

        pre.setInt(1, id);

```

```
        count=pre.executeUpdate();  
    } catch (SQLException e) {  
        e.printStackTrace();  
    }  
  
    finally  
    {  
        try {  
            pre.close();  
            con.close();  
        } catch (SQLException e) {  
            // TODO Auto-generated catch block  
            e.printStackTrace();  
        }  
    }  
  
    return count;  
}
```



```
/**
 * @author help
 *
 *根据ID查询某一条记录
 * @return
 */
public JavaBean getSearchById(String sql,int id)
{
    JavaBean jBean = new JavaBean();

    try {
        pre = con.prepareStatement(sql);
        pre.setInt(1, id);
        rs=pre.executeQuery();

        while(rs.next())
        {
            jBean.setId(rs.getInt("id"));
            jBean.setName(rs.getString("name"));
            jBean.setPassword(rs.getString("password"));
            jBean.setSex(rs.getString("sex"));
            jBean.setAge(rs.getInt("age"));
        }
    }
}
```

```

        }

    } catch (SQLException e)

    {

        e.printStackTrace();

    }

    return jBean;

}

/**
 * @author help
 *
 * 更新某一条记录
 * @return
 */
public int getUpdate(String sql,JavaBean jBean)
{

    int count =0;

    try {

        pre = con.prepareStatement(sql);

        pre.setInt(5,jBean.getId());

        pre.setString(1,jBean.getName());

        pre.setString(2,jBean.getPassword());

```

```
pre.setString(3,jBean.getSex());

pre.setInt(4,jBean.getAge());

count = pre.executeUpdate();

} catch (SQLException e) {

    // TODO Auto-generated catch block

    e.printStackTrace();

}

finally

{

    try {

        pre.close();

        con.close();

    } catch (SQLException e) {

        // TODO Auto-generated catch block

        e.printStackTrace();

    }

}

return count;

}
```

```
/**
 * @author help
 *
 * 显示所有记录
 * @return
 */

public List getSearch(String sql)
{
    List list = new ArrayList();

    //获取prepareStatement对象
    try {
        pre = con.prepareStatement(sql);
        rs = pre.executeQuery();

        while(rs.next())
        {
            JavaBean jBean = new JavaBean();
            jBean.setId(rs.getInt("id"));
            jBean.setName(rs.getString("name"));
            jBean.setPassword(rs.getString("password"));
            jBean.setSex(rs.getString("sex"));
        }
    }
}
```

```
        jBean.setAge(rs.getInt("age"));

        list.add(jBean);

    }

} catch (SQLException e) {

    // TODO Auto-generated catch block

    e.printStackTrace();

}

finally

{

    try {

        pre.close();

        con.close();

    } catch (SQLException e) {

        // TODO Auto-generated catch block

        e.printStackTrace();

    }

}

return list;

}

}
```

## V 层：试图层

### 1. 显示记录集的页面 SearchList.jsp

```
<%@ page language="java" import="java.util.*"
pageEncoding="UTF-8"%>

<%

String path = request.getContextPath();

String basePath =

request.getScheme()+"://"+request.getServerName()

+": "+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN">

<html>

<head>

<meta http-equiv="Content-Type"

content="text/html; charset=UTF-8">

<title>显示记录</title>

</head>

<body>

<center >

<font color=red size=72>学生信息如下: </font>
```

```
<hr>

<table border=1 bgColor="#ffffff" width="500px"
height="100px">

<tr>

<td>ID</td>

<td>姓名</td>

<td>密码</td>

<td>性别</td>

<td>年龄</td>

<td><center>操作</center></td>

</tr>


<jsp:useBean id="sBean"class="muta.bean.SqlBean"/>
<jsp:useBean id="jBean"
class="muta.bean.JavaBean"/>

<%

    String sql ="select * from student order by id";

    java.util.List list =sBean.getSearch(sql);

    for(java.util.Iterator it
=list.iterator();it.hasNext();)

    {
```

```

//获取一个JavaBean对象

jBean =(muta.bean.JavaBean) it.next ();

%>

<tr>

    <td><%=jBean.getId() %></td>

    <td><%=jBean.getName() %></td>

    <td><%=jBean.getPassword() %></td>

    <td><%=jBean.getSex() %></td>

    <td><%=jBean.getAge() %></td>


    <td>

        <a href="Insert.jsp">增加</a>

        <a href="Delete?id=<%=jBean.getId() %> ">删除</a>&nbsp;

        <a

href="SearchById?id=<%=jBean.getId() %> ">更新</a>

    </td>

</tr>


<% } %>

</table>

```



```
</center>

</body>

</html>
```

## 2. 插入页面 Insert.jsp

```
<%@ page language="java" import="java.util.*"
pageEncoding="UTF-8"%>

<%

String path = request.getContextPath();

String basePath =

request.getScheme()+"://"+request.getServerName()

+": "+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN">

<html>

<head>

<meta http-equiv="Content-Type"

content="text/html; charset=UTF-8">

<title>插入新值</title>

</head>
```

```
<body>

  <center >

    <font color=red size=72>学生管理页面</font>

  <hr>

  <form action="Insert" method="post">

    <table border="1">

      <tr>

        <td>姓名: </td>

        <td><input name = "name "></td>

      </tr>

      <tr>

        <td>密码: </td>

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

      </tr>

      <tr>

        <td>性别: </td>

        <td><input type="radio" name = "sex" value="男">男

          <input type="radio" name = "sex" value="女">

          女

        </td>
```

```
</tr>

<tr>
<td>年龄: </td>
<td><input type="text" name = "age"></td>
</tr>

<tr>
<td colspan="2">
  <center>
    <input type="submit" value="提交">
    <input type="reset" value="重置">
  </center>
</td>
</tr>

</table>
</form>
<a href="SearchList.jsp">查询</a>
  </center>
</body>
</html>
```

### 3. 更新页面 Update.jsp

```
<%@ page language="java" import="java.util.*"
pageEncoding="UTF-8"%>

<%

String path = request.getContextPath();

String basePath =

request.getScheme()+"://"+request.getServerName()

+": "+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN">

<html>

<head>

<meta http-equiv="Content-Type"

content="text/html; charset=UTF-8">

<title>更新</title>

</head>

<body>

<center>

<font color=red size=72>学生管理页面</font>
```

```
<hr>

<form action="Update" method="post">

<table border="1">

<tr>

<td>学生ID: </td>

<td><input name="id"

value="<%=request.getAttribute("id") %>"

readonly></td>

</tr>

<tr>

<td>学生姓名: </td>

<td><input name="name"

value="<%=request.getAttribute("name") %>" ></td>

</tr>

<tr>

<td>学生密码: </td>

<td><input type="password" name="password"

value="<%=request.getAttribute("password") %>"

></td>

</tr>
```

```

<tr>

<td>学生性别: </td>

<td><input type="radio" name = "sex" value= "男"
"%=request.getAttribute("man") %>>男

        <input type="radio" name = "sex" value= "女"
"%=request.getAttribute("woman") %>>女

</td>

</tr>


<tr>

<td>学生年龄: </td>

<td><input type="text" name= "age"
value= "%=request.getAttribute("age") %> " ></td>

</tr>


<tr>

<td colspan= "2">

<center>

<input type= "submit" value= "提交">

<input type= "reset" value= "重置">

</center>

```

```
</td>

</tr>

</table>

</form>

<a href="SearchList.jsp">查询</a>

</center>

</body>

</html>
```

#### 4. 出错页面 Error.jsp

```
<%@ page language="java" import="java.util.*"
pageEncoding="UTF-8"%>

<%

String path = request.getContextPath();

String basePath =

request.getScheme()+"://"+request.getServerName()

+": "+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN">
```

```
<html>

<head>

<meta http-equiv="Content-Type"
content="text/html; charset=UTF-8">

<title>出错啦!!! </title>

</head>


<body>

    对不起！您<%=request.getAttribute("error") %>失败

</body>

</html>
```

C 层：控制层—Servlet



## 1. 显示记录集的 Servlet---SearchById.java

```
package muta.servlet;

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

import muta.bean.JavaBean;
import muta.bean.SqlBean;

public class SearchById extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * The doDelete method of the servlet. <br>
     *
     * This method is called when a HTTP delete request is received.
     *
     * @param request the request send by the client to the server
     * @param response the response send by the server to the client
    */
}
```

```

    * @throws ServletException if an error occurred

    * @throws IOException if an error occurred

    */

    public void doDelete(HttpServletRequest request,
                          HttpServletResponse response) throws ServletException,
IOException {

        // Put your code here

    }

    /**

    * The doGet method of the servlet. <br>

    *

    * This method is called when a form has its tag value method equals
to get.

    *

    * @param request the request send by the client to the server

    * @param response the response send by the server to the client

    * @throws ServletException if an error occurred

    * @throws IOException if an error occurred

    */

    public void doGet(HttpServletRequest request, HttpServletResponse

```

response)

**throws** ServletException, IOException {

doPost(request,response);

}

/\*\*

\* The doPost method of the servlet. <br>

\*

\* This method is called when a form has its tag value method equals  
to post.

\*

\* @param request the request send by the client to the server

\* @param response the response send by the server to the client

\* @throws ServletException if an error occurred

\* @throws IOException if an error occurred

\*/

**public void** doPost(HttpServletRequest request,  
HttpServletResponse response)

**throws** ServletException, IOException {

```
response.setContentType("text/html");  
request.setCharacterEncoding("utf-8");  
response.setCharacterEncoding("utf-8");
```

//获取用户ID

```
String sid = request.getParameter("id");  
  
int id = Integer.parseInt(sid);
```

```
String sql = "select * from student where id=?";  
  
SqlBean sBean = new SqlBean();  
  
JavaBean jBean = sBean.getSearchById(sql, id);
```

//用户ID

```
request.setAttribute("id",jBean.getId());
```

//用户姓名

```
request.setAttribute("name",jBean.getName());
```

//用户密码

```
request.setAttribute("password",jBean.getPassword());
```

//用户性别

```
String sex="";
```

```
String man="";
```

```
String woman="";

if(jBean.getSex()!=null)
{
    sex=jBean.getSex().trim();

    if(sex.equals("男"))
    {
        man ="checked";
    }

    else
    {
        woman ="checked";
    }
}

request.setAttribute("man",man);
request.setAttribute("woman",woman);
```

//用户年龄

```
request.setAttribute("age",jBean.getAge());
```

//转发

```
request.getRequestDispatcher("Update.jsp").forward(request,
```

```
response);  
  
    }  
  
}
```

## 2. 增加记录的 Servlet---Insert.java

```
package muta.servlet;  
  
import java.io.IOException;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
  
import muta.bean.SqlBean;  
import muta.bean.JavaBean;  
  
public class Insert extends HttpServlet {  
  
    /**  
    *  
    */
```

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

```
/**
```

```
 * The doDelete method of the servlet. <br>
```

```
 *
```

```
 * This method is called when a HTTP delete request is received.
```

```
 *
```

```
 * @param request the request send by the client to the server
```

```
 * @param response the response send by the server to the client
```

```
 * @throws ServletException if an error occurred
```

```
 * @throws IOException if an error occurred
```

```
 */
```

```
public void doDelete(HttpServletRequest request,
```

```
        HttpServletResponse response) throws ServletException,
```

```
        IOException {
```

```
    // Put your code here
```

```
}
```

```
/**
```

```
 * The doGet method of the servlet. <br>
```

```
 *
```

\* This method is called when a form has its tag value method equals to get.

\*

\* @param request the request send by the client to the server

\* @param response the response send by the server to the client

\* @throws ServletException if an error occurred

\* @throws IOException if an error occurred

\*/

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

**throws** ServletException, IOException {

response.setContentType("text/html");

doPost(request,response);

}

/\*\*

\* The doPost method of the servlet. <br>

\*

\* This method is called when a form has its tag value method equals to post.



```
*  
  
* @param request the request send by the client to the server  
  
* @param response the response send by the server to the client  
  
* @throws ServletException if an error occurred  
  
* @throws IOException if an error occurred  
  
*/
```

```
public void doPost(HttpServletRequest request,  
HttpServletResponse response)
```

```
throws ServletException, IOException {
```

```
response.setContentType("text/html");
```

```
request.setCharacterEncoding("utf-8");
```

```
response.setCharacterEncoding("utf-8");
```

```
//获取前台页面数据
```

```
String name =request.getParameter("name");
```

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

```
String sex =request.getParameter("sex");
```

```
String sage = request.getParameter("age");
```

```
int age =Integer.parseInt(sage);
```

```
//封装到JavaBean对象中去
```

```
JavaBean jBean = new JavaBean();
```

```
jBean.setName(name);
```

```
jBean.setPassword(password);
```

```
jBean.setSex(sex);
```

```
jBean.setAge(age);
```

```
//调用模型层
```

```
String sql = "insert into student(name,password,sex,age)
```

```
values(?,?,?,?)";
```

```
SqlBean sBean = new SqlBean();
```

```
int count =sBean.getInsert(sql,jBean);
```

```
String url="";
```

```
if(count>0)
```

```
{
```

```
url="SearchList.jsp";
```

```
}
```

```
else
```

```
{
```

```
url = "error.jsp";
```

```
request.setAttribute("error", "???");
```

```
}
```

```
//转发n
```

```
        request.getRequestDispatcher("SearchList.jsp").forward(request,
response);
    }
}
```

### 3. 更新记录的 Servlet----Updated.java

```
package muta.servlet;

import java.io.IOException;
import java.io.PrintWriter;

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

import muta.bean.JavaBean;
import muta.bean.SqlBean;

public class Update extends HttpServlet {
```

```
/**  
  
 *  
  
 */  
  
private static final long serialVersionUID = 1L;  
  
/**  
  
 * The doDelete method of the servlet. <br>  
 *  
 * This method is called when a HTTP delete request is received.  
 *  
 * @param request the request send by the client to the server  
 * @param response the response send by the server to the client  
 * @throws ServletException if an error occurred  
 * @throws IOException if an error occurred  
 */  
  
public void doDelete(HttpServletRequest request,  
                    HttpServletResponse response) throws ServletException,  
IOException {  
  
    // Put your code here  
  
}
```

```
/**  
  
 * The doGet method of the servlet. <br>  
  
 *  
  
 * This method is called when a form has its tag value method equals  
to get.  
  
 *  
  
 * @param request the request send by the client to the server  
 * @param response the response send by the server to the client  
 * @throws ServletException if an error occurred  
 * @throws IOException if an error occurred  
 */  
  
public void doGet(HttpServletRequest request, HttpServletResponse  
response)  
  
    throws ServletException, IOException {  
  
    doPost(request,response);  
}  
  
/**  
  
 * The doPost method of the servlet. <br>  
  
 *
```

\* This method is called when a form has its tag value method equals to post.

\*

\* @param request the request send by the client to the server

\* @param response the response send by the server to the client

\* @throws ServletException if an error occurred

\* @throws IOException if an error occurred

\*/

**public void** doPost(HttpServletRequest request,  
HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html");

request.setCharacterEncoding("utf-8");

response.setCharacterEncoding("utf-8");

//获得前台表单信息

**String** sid = request.getParameter("id");

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

**String** name =request.getParameter("name");

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

```
String sex = request.getParameter("sex");
```

```
String sage = request.getParameter("age");
```

```
int age = Integer.parseInt(sage);
```

```
//封装到JavaBean对象中去
```

```
JavaBean jBean = new JavaBean();
```

```
jBean.setId(id);
```

```
jBean.setName(name);
```

```
jBean.setPassword(password);
```

```
jBean.setSex(sex);
```

```
jBean.setAge(age);
```

```
String sql = "update student set name=?,password=?,sex=?,age=?
```

```
where id=?";
```

```
SqlBean sBean = new SqlBean();
```

```
int count = sBean.getUpdate(sql,jBean);
```

```
String url="";
```

```
if(count>0)
```

```
{
```

```
url="SearchList.jsp";
```

```
}
```

```
        else
        {
            url = "error.jsp";
            request.setAttribute("error", "更新");
        }
        request.getRequestDispatcher("SearchList.jsp").forward(request,
response);
    }
}
```

#### 4. 删除记录的 Servlet----Delete.java

```
package muta.servlet;

import java.io.IOException;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```



```
import muta.bean.SqlBean;
```

```
public class Delete extends HttpServlet {
```

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

```
    /**
```

```
     * The doDelete method of the servlet. <br>
```

```
     *
```

```
     * This method is called when a HTTP delete request is received.
```

```
     *
```

```
     * @param request the request send by the client to the server
```

```
     * @param response the response send by the server to the client
```

```
     * @throws ServletException if an error occurred
```

```
     * @throws IOException if an error occurred
```

```
    */
```

```
    public void doDelete(HttpServletRequest request,
```

```
        HttpServletResponse response) throws ServletException,
```

```
        IOException {
```

```
        // Put your code here
```

```
    }
```

```
    /**
```

\* The doGet method of the servlet. <br>

\*

\* This method is called when a form has its tag value method equals to get.

\*

\* @param request the request send by the client to the server

\* @param response the response send by the server to the client

\* @throws ServletException if an error occurred

\* @throws IOException if an error occurred

\*/

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

**throws** ServletException, IOException {

response.setContentType("text/html");

doPost(request,response);

}

/\*\*

\* The doPost method of the servlet. <br>

\*

\* This method is called when a form has its tag value method equals

to post.

```
*  
  
* @param request the request send by the client to the server  
* @param response the response send by the server to the client  
* @throws ServletException if an error occurred  
* @throws IOException if an error occurred  
*/
```

```
public void doPost(HttpServletRequest request,  
HttpServletResponse response)
```

```
throws ServletException, IOException {
```

```
response.setContentType("text/html");
```

```
//获取超链接传来的数据
```

```
String sId = request.getParameter("id");
```

```
int id =Integer.parseInt(sId);
```

```
//
```

```
//调用模型层删除方法
```

```
String sql = "delete from student where id=?";
```

```
SqlBean sBean = new SqlBean();
```

```
int count =sBean.delete(sql, id);
```

```

String url="";

if(count>0)

{

    url="SearchList.jsp";

}

else

{

    url = "error.jsp";

    request.setAttribute("error", "删除");

}

//转发

request.getRequestDispatcher(url).forward(request, response);

}

}

```

## XML 文件

```

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

<web-app version="2.5"

    xmlns="http://java.sun.com/xml/ns/javaee"

    xmlns:xsi="http://www.w3.org/2001/XMLSchema-in
stance"

```

```
    xsi:schemaLocation="http://java.sun.com/xml/ns
/javaee
    http://java.sun.com/xml/ns/javaee/web-app_2_5.
xsd">

    <servlet>

        <servlet-name>Update</servlet-name>

<servlet-class>muta.servlet.Update</servlet-class
>

    </servlet>

    <servlet>

        <servlet-name>SearchById</servlet-name>

<servlet-class>muta.servlet.SearchById</servlet-c
lass>

    </servlet>

    <servlet>

        <servlet-name>Insert</servlet-name>

<servlet-class>muta.servlet.Insert</servlet-class
>

    </servlet>
```

```
<servlet>

    <servlet-name>Delete</servlet-name>

<servlet-class>muta.servlet.Delete</servlet-class
>

</servlet>


<servlet-mapping>
    <servlet-name>Update</servlet-name>
    <url-pattern>/Update</url-pattern>
</servlet-mapping>
<servlet-mapping>
    <servlet-name>SearchById</servlet-name>
    <url-pattern>/SearchById</url-pattern>
</servlet-mapping>
<servlet-mapping>
    <servlet-name>Insert</servlet-name>
    <url-pattern>/Insert</url-pattern>
</servlet-mapping>
```

```
<servlet-mapping>
  <servlet-name>Delete</servlet-name>
  <url-pattern>/Delete</url-pattern>
</servlet-mapping>

<welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
</welcome-file-list>
</web-app>
```