# new 4、SpingMVC 实战

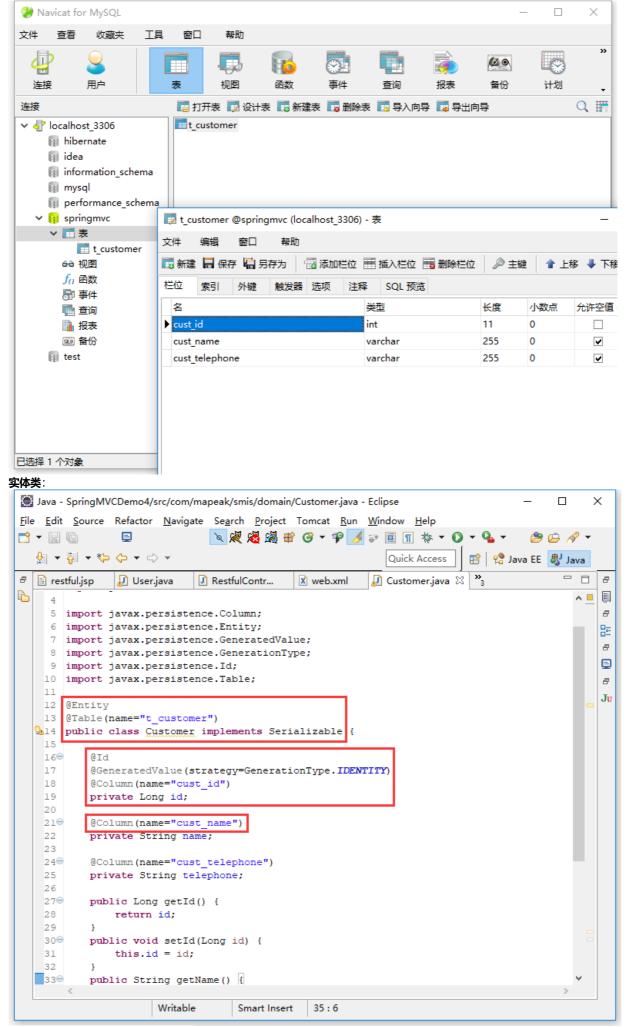
# CRM 系统的客户 CRUD

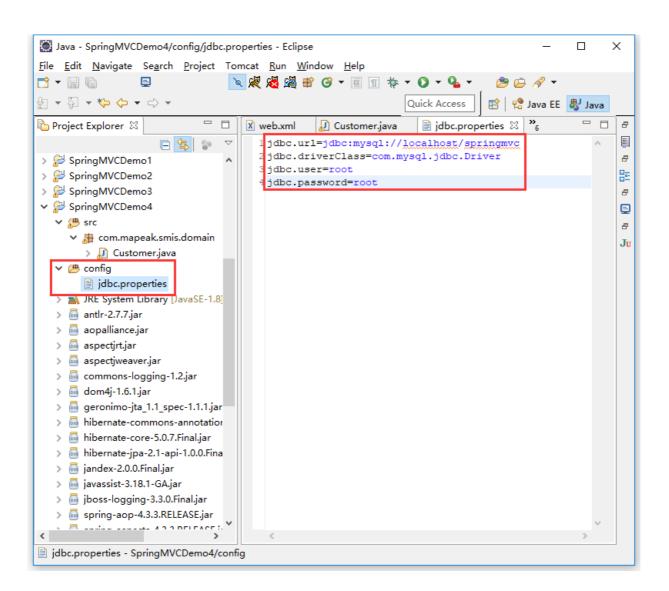
使用 SpringMVC4 + Spring4 + Hibernate5 + restful 实现

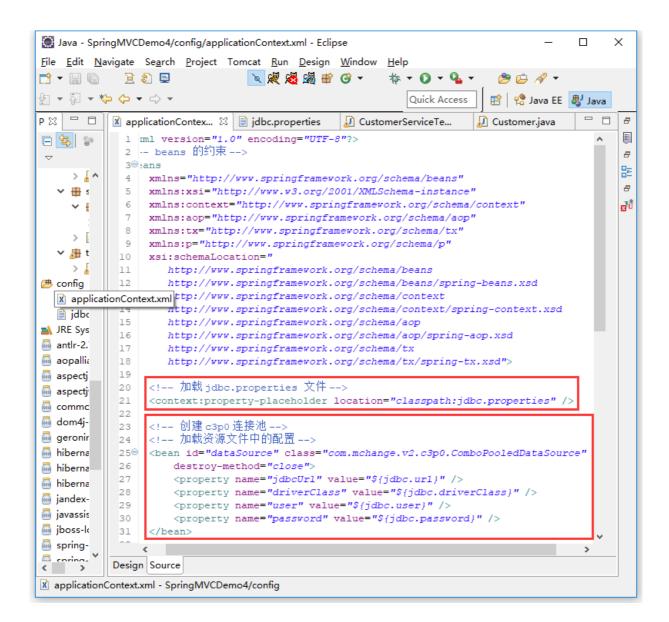
# 导入 Hibernate 和 spring 相关 jar 包: JavaWeb 相关包:

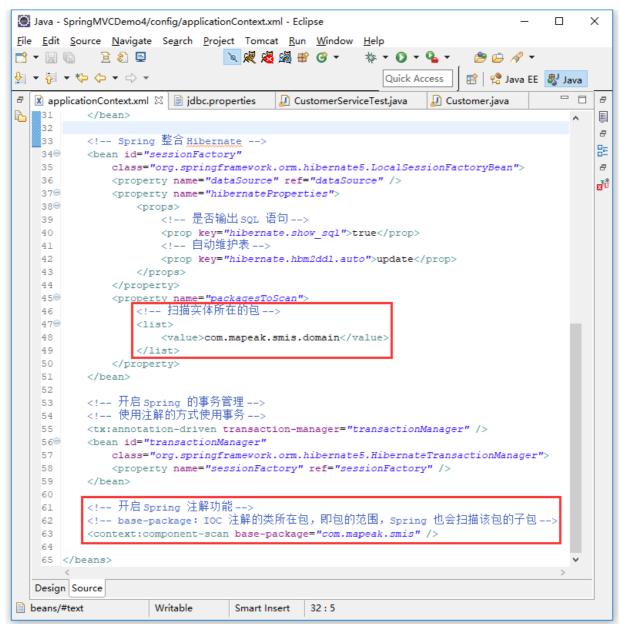
PS: 本框架为手工从 JavaSE	15日 开始这建	師以重要 javaWeh	相羊句

PS: 本框架为手上从 JavaSE 项目开始搭建,所以需要 JavaWeb 相关包					
🖺 el-api.jar	2018/10/24 19:56	Executable Jar File	79 KB		
🕌 jsp-api.jar	2018/10/24 19:56	Executable Jar File	60 KB		
🕌 jstl.jar	2018/10/23 19:20	Executable Jar File	21 KB		
🖺 servlet-api.jar	2018/10/12 10:22	Executable Jar File	239 KB		
🖺 standard.jar	2018/10/23 19:20	Executable Jar File	385 KB		
Spring 完整包:					
🖺 aopalliance.jar	2017/12/11 16:02	Executable Jar File	5 KB		
🖺 aspectjrt.jar	2017/12/11 16:02	Executable Jar File	115 KB		
🖺 aspectjweaver.jar	2017/12/11 16:02	Executable Jar File	1,816 KB		
🖺 commons-logging-1.2.jar	2017/12/11 16:02	Executable Jar File	61 KB		
🖺 spring-aop-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	372 KB		
🖺 spring-aspects-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	58 KB		
🖺 spring-beans-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	743 KB		
spring-context-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	1,109 KB		
spring-context-support-4.3.3.RELEAS	2017/12/11 16:02	Executable Jar File	183 KB		
🖺 spring-core-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	1,085 KB		
spring-expression-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	258 KB		
🖺 spring-jdbc-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	417 KB		
🖺 spring-orm-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	466 KB		
🕌 spring-test-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	580 KB		
🖺 spring-tx-4.3.3.RELEASE.jar	2017/12/11 16:02	Executable Jar File	261 KB		
🖺 spring-web-4.3.3.RELEASE.jar	2017/12/11 21:48	Executable Jar File	795 KB		
🖺 spring-webmvc-4.3.3.RELEASE.jar	2017/12/11 21:45	Executable Jar File	893 KB		
Hibernate 基本包:					
🕌 antlr-2.7.7.jar	2017/12/11 16:02	Executable Jar File	435 KB		
🖺 dom4j-1.6.1.jar	2017/12/11 16:02	Executable Jar File	307 KB		
🖺 geronimo-jta_1.1_spec-1.1.1.jar	2017/12/11 16:02	Executable Jar File	16 KB		
hibernate-commons-annotations-5.0	2017/12/11 16:02	Executable Jar File	74 KB		
🖺 hibernate-core-5.0.7.Final.jar	2017/12/11 16:02	Executable Jar File	5,453 KB		
🖺 hibernate-jpa-2.1-api-1.0.0.Final.jar	2017/12/11 16:02	Executable Jar File	111 KB		
🕌 jandex-2.0.0.Final.jar	2017/12/11 16:02	Executable Jar File	184 KB		
🕌 javassist-3.18.1-GA.jar	2017/12/11 16:02	Executable Jar File	698 KB		
🖺 jboss-logging-3.3.0.Final.jar	2017/12/11 16:02	Executable Jar File	66 KB		
c3p0 连接池包:					
🖺 c3p0-0.9.2.1.jar	2017/12/11 16:03	Executable Jar File	414 KB		
🖺 hibernate-c3p0-5.0.7.Final.jar	2017/12/11 16:03	Executable Jar File	12 KB		
🕌 mchange-commons-java-0.2.3.4.jar	2017/12/11 16:03	Executable Jar File	568 KB		
MySQL 驱动包:					
🖺 mysql-connector-java-5.1.7-bin.jar	2017/12/11 16:02	Executable Jar File	694 KB		
数据库表:					









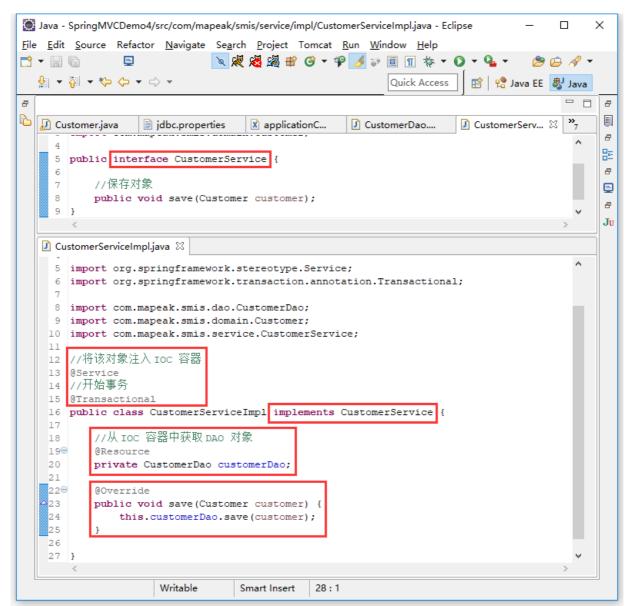
编写 DAO 接口和实现:

```
🌉 Java - SpringMVCDemo4/src/com/mapeak/smis/dao/impl/CustomerDaoImpl.java - Eclipse
 <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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🚨 🔝 Customer.java 🔃 CustomerDao.java 🛭
                                                                                                                                                                                                                                                                                             8
          1 package com.mapeak.smis.dao;
                                                                                                                                                                                                                                                                                            85
               3 import com.mapeak.smis.domain.Customer;
                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                            w<sup>™</sup>Ü
               5 public interface CustomerDao {
                                  //保存
                8
                               public void save(Customer customer);
               9 }

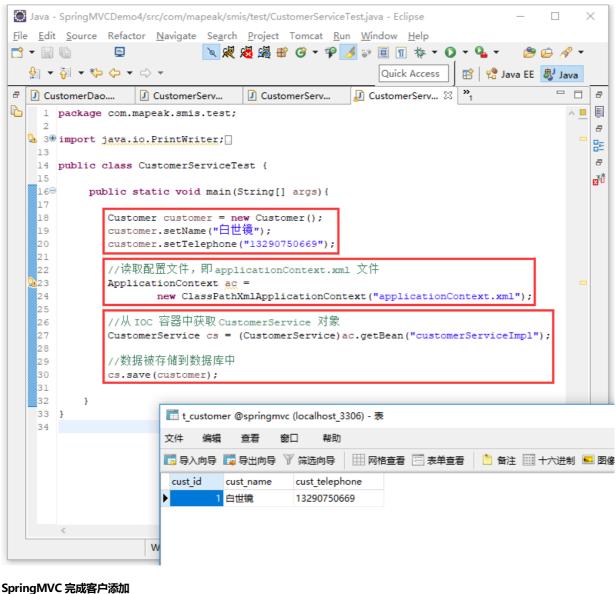
☑ CustomerDaoImpl.java 
☒

         1 package com.mapeak.smis.dao.impl;
               3⊕ import javax.annotation.Resource; [.]
             11
             12 @Repository
             public class CustomerDaoImpl extends HibernateDaoSupport implements CustomerDao {
             14
                                     //注入 SessionFactory 对象
             15
             169
                                    @Resource
             17
                                   public void setMySessionFactory(SessionFactory sessionFactory){
             18
                                              super.setSessionFactory(sessionFactory);
             19
             20
            21⊖
                                  @Override
          △22
                                   public void save(Customer customer) {
            23
                                              this.getHibernateTemplate().save(customer);
            24
             25 }
                                                                  Writable
                                                                                                         Smart Insert 1:1
```

编写 Service 接口和实现:



测试 Service 方法:

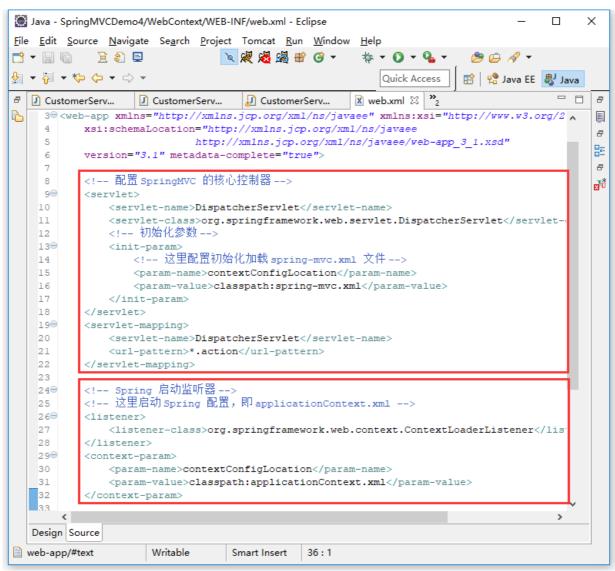


# SpringMVC 完成客户添加导入 SpringMVC 支持:

PS:

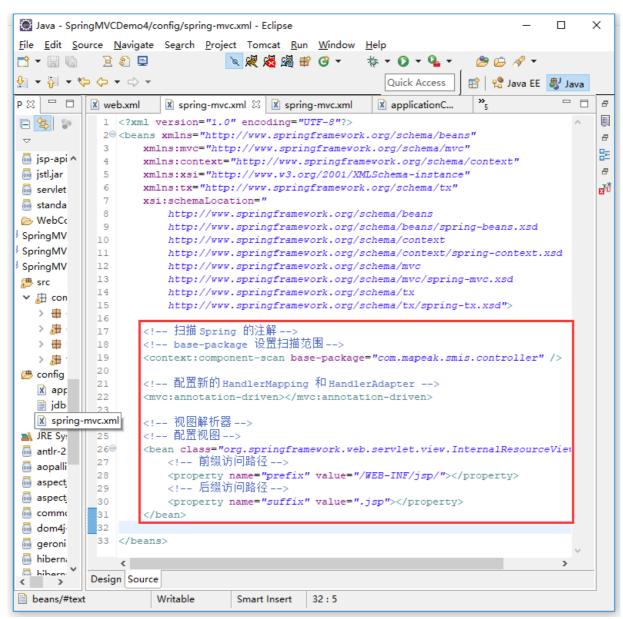
spring-web-4.3.3.RELEASE.jar (这个包启动 spring 的 web 环境) 这两个包之前已导入

编写 web.xml 启动 SpringMVC 、Spring:



### 编写 SpringMVC 配置:

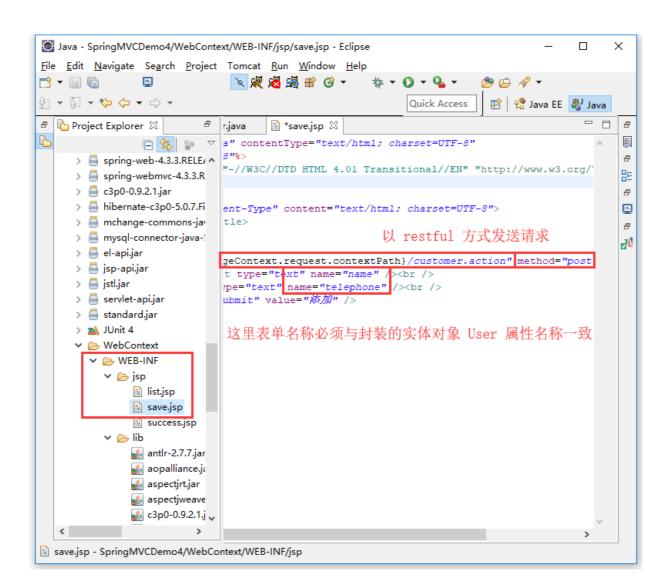
即配置 spring-mvc.xml 文件

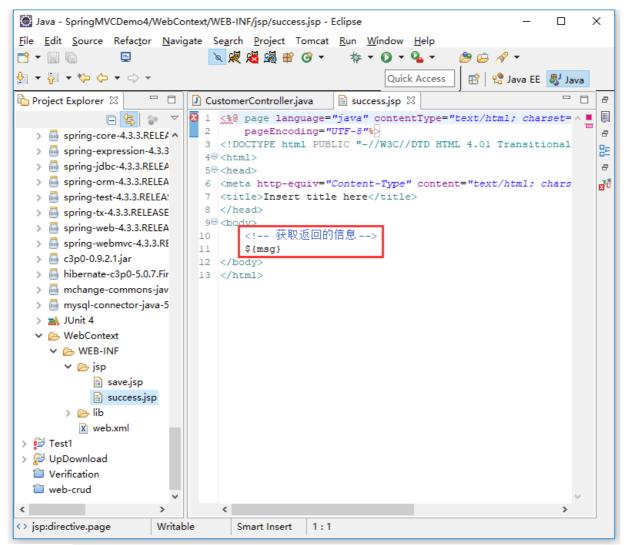


页面:

以 restful 方式发送请求

PS: 这里表单名称必须与封装的实体对象 User 属性名称一致

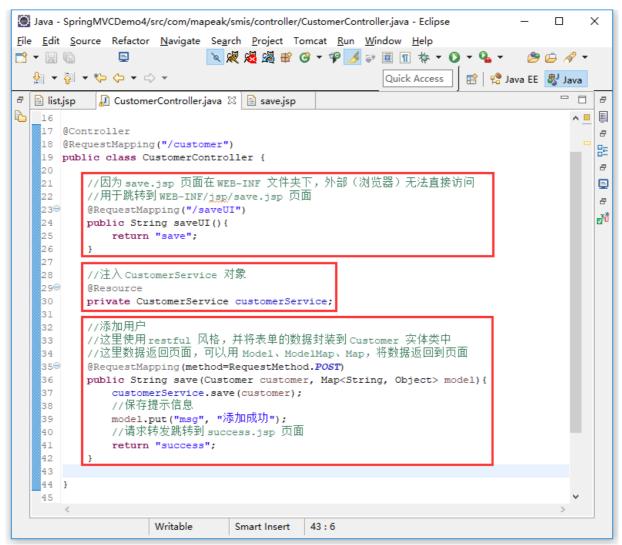




#### Controller:

以 restful 方式执行 CREATE 操作,即:method=RequestMethod.POST **PS**:

由于 save.jsp 在 WEB-INF 文件夹中,无法直接访问,所以需要跳转控制器 这里使用 restful 风格,并将表单的数据封装到 Customer 实体类中 这里数据返回页面,可以用 Model、ModelMap、Map,将数据返回到页面

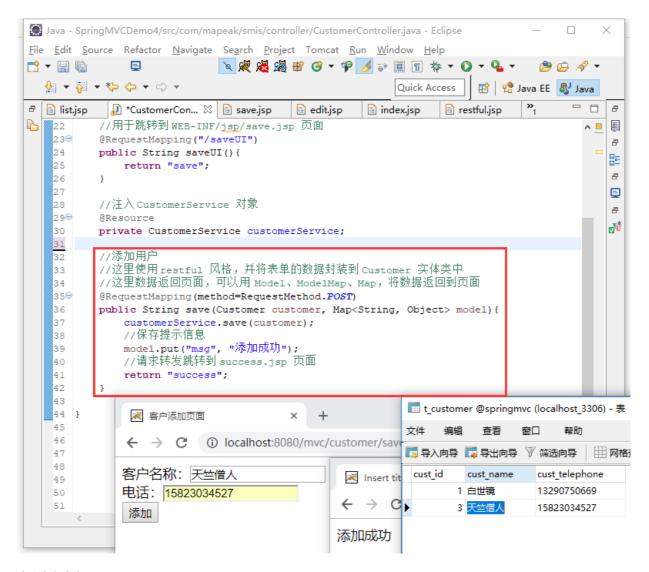


### 添加 SpringMVC 的编码过滤器:

web.xml 里配置,解决中文乱码问题。

```
Java - SpringMVCDemo4/WebContext/WEB-INF/web.xml - Eclipse
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🗗 🗾 CustomerController.java
                        🛚 web.xml 🖂
                                                                                       1 ml version="1.0" encoding="UTF-8"?>
                                                                                       8
    3@:b-app xmlns="http://xmlns.jcp.org/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001
                                                                                       먎
    4 xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
                                                                                        8
                       http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
       version="3.1" metadata-complete="true">
                                                                                       w<sup>™</sup>ů
    6
       <!-- 配置 SpringMVC 的 POST 请求编码过滤器 -->
    8
    9⊖ <filter>
   1.0
            <filter-name>CharacterEncodingFilter</filter-name>
    11
            <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-</pre>
            <!-- 初始化参数 -->
   12
   13⊖
            <init-param
               <!-- 这里配置字符集名称 -->
   14
   15
               <param-name>encoding</param-name>
                <param-value>UTF-8</param-value>
   16
   17
            </init-param>
        </filter>
   18
   19⊖
       <filter-mapping>
           <filter-name>CharacterEncodingFilter</filter-name>
   21
            <url-pattern>/*</url-pattern>
        </filter-mapping>
   22
    23
   25⊖
        <servlet>
   26
           <servlet-name>DispatcherServlet</servlet-name>
    27
            <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-cla</pre>
           <!-- 初始化参数 -->
   28
   20A /init nam
   Design Source
web-app/#text
                    Writable
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                                           24:33
```

测试:



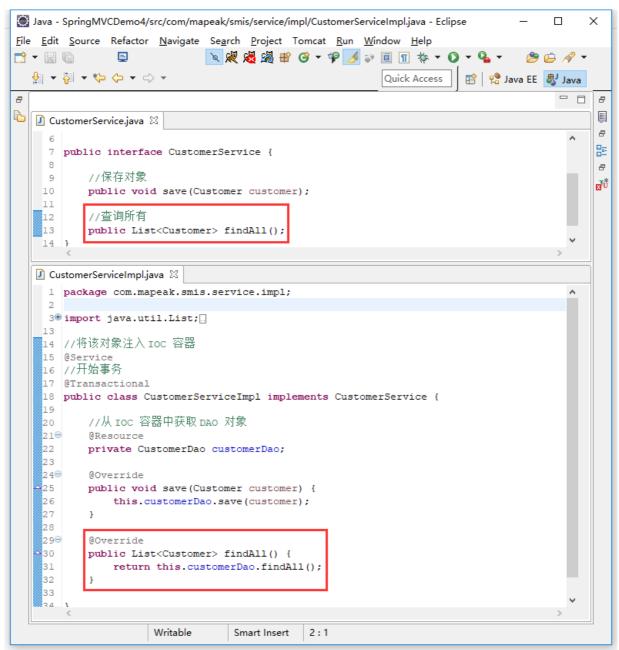
## 客户查询功能

DAO:

PS: HibernateDaoSupport 所在包: org.springframework.orm.hibernate5.support.HibernateDaoSupport, 不是 hibernate4

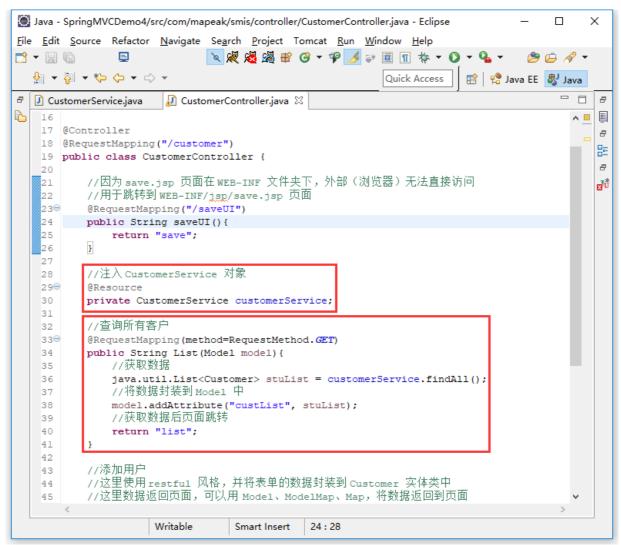
```
🌉 Java - SpringMVCDemo4/src/com/mapeak/smis/dao/CustomerDao.java - Eclipse
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  9 ▼ ₩ ▼ ♦ ▼ □ ▼
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CustomerDao.java 🛭
                                                                                      3 mport com.mapeak.smis.domain.Customer;
                                                                                      8
                                                                                 A =
                                                                                     85
   5 import antlr.collections.List;
                                                                                      8
   🕦 6 import java.util.*;
                                                                                     w<sup>™</sup>Ü
    8 public interface CustomerDao {
          //保存
   10
          public void save(Customer customer);
   11
   12
    13
           //查询所有
          public java.util.List<Customer> findAll();
   14
   15 }
   16
   14 @Repository
   15 public class CustomerDaoImpl extends HibernateDaoSupport implements CustomerDao {
   16
          //注入SessionFactory 对象
   17
   18⊖
          @Resource
          public void setMySessionFactory(SessionFactory sessionFactory){
   19
   20
             super.setSessionFactory(sessionFactory);
   21
    22
    23⊖
          @Override
   ⇔24
          public void save(Customer customer) {
   25
26
             this.getHibernateTemplate().save(customer);
   27
   28⊖
          @Override
   △29
          public List<Customer> findAll() {
              //Hibernate 模板查询所有数据
   30
   31
              return this.getHibernateTemplate().loadAll(Customer.class);
   32
    33 }
                    Writable
                               Smart Insert
                                          1:29
```

Service:



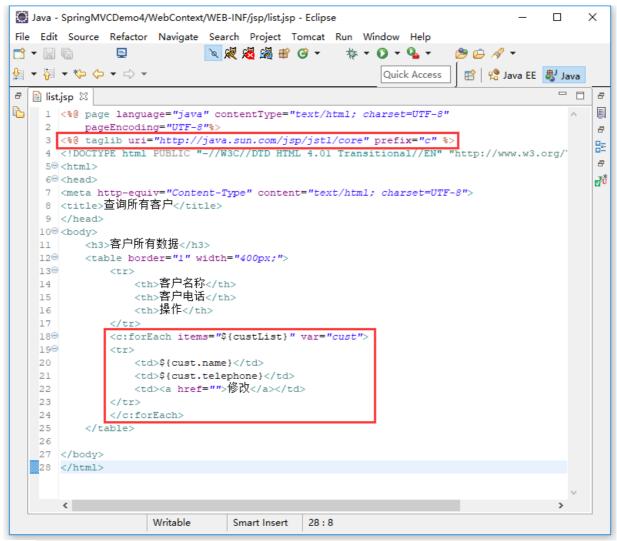
#### Controller:

以 restful 方式执行 SELECT 操作,即:method=RequestMethod.GET



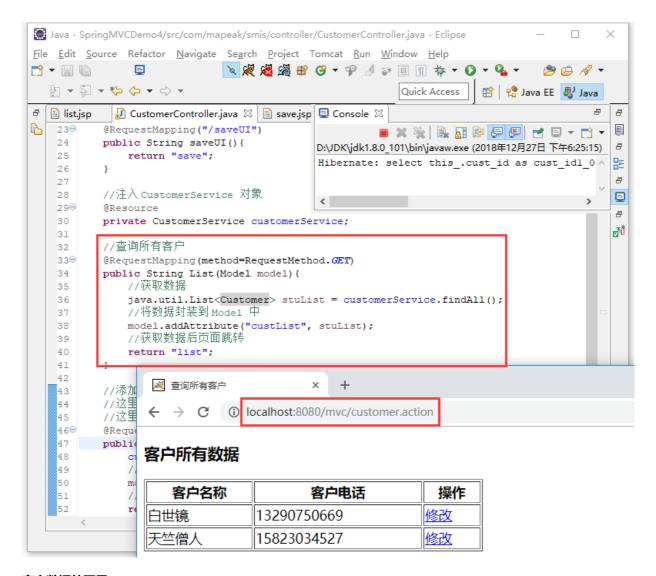
#### 页面:

导入 JSTL 的标签库: <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>



测试:

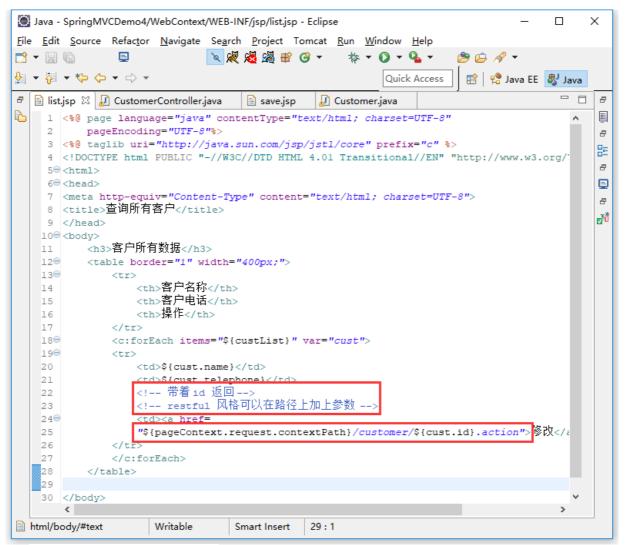
PS: 浏览器的默认请求方式为 get,所以能执行 GET 请求的 action 方法,此时获取数据成功



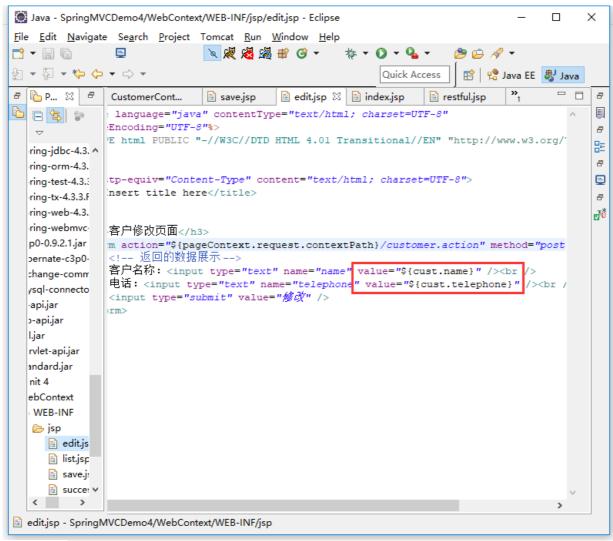
## 客户数据的回显

页面:

PS: restful 风格也可以在路径上加上参数



PS: value="\${cust.name}" 展示返回的数据



#### Controller:

PS: 获取 url 中的 id 值

```
🗿 Java - SpringMVCDemo4/src/com/mapeak/smis/controller/CustomerController.java - Eclipse
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□ CustomerCont... 🖾 🖸 CustomerDaol...
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                                  CustomerServ...
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27
                                                                                     return "save";
                                                                                  A 📙
   28
                                                                                     8
   29
                                                                                     먎
   30
          //注入CustomerService 对象
                                                                                     8
   31⊖
          @Resource
    32
          private CustomerService customerService;
                                                                                     ▣
    33
                                                                                     8
          //查询一个客户
    34
                                                                                     ₽ŤŮ
          //使用restful 风格访问
   35
          //返回的id 值,获取url 中的id 值
    36
          @RequestMapping(value="/{id}", method=RequestMethod.GET)
    37⊜
          public String findById(@PathVariable("id")Long id, Map<String, Object> model)
   38
   39
    40
              //根据返回的id 查询数据,将查询的数据封装到Map 集合
    41
              Customer customer = this.customerService.findById(id);
    42
              model.put("cust", customer);
    43
              //跳转页面
    44
              return "edit";
    45
    46
    47
    48
          //查询所有客户
    49⊖
          @RequestMapping (method=RequestMethod. GET)
   50
          public String List(Model model) {
             //获取数据
   51
    52
             java.util.List<Customer> stuList = customerService.findAll();
              //将数据封装到 Model 中
   53
             model.addAttribute("custList", stuList);
   54
              //获取数据后页面跳转
   55
              return "list";
                   Writable
                               Smart Insert 28:7
```

Service:

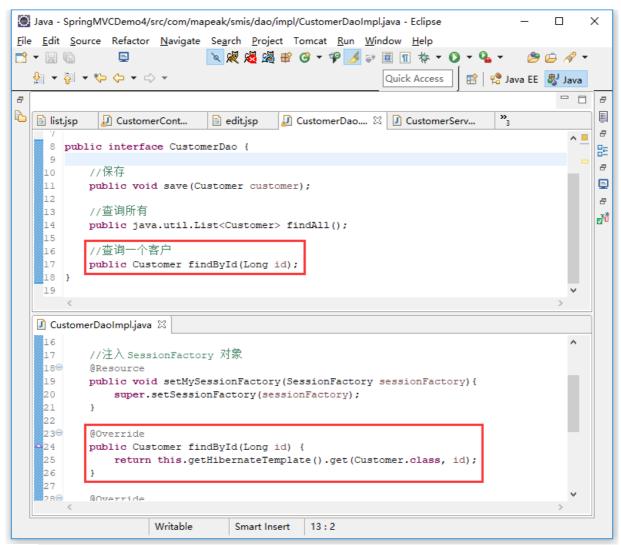
```
Java - SpringMVCDemo4/src/com/mapeak/smis/service/CustomerService.java - Eclipse
                                                                             <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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CustomerCont...
                                                                                    8
    7 public interface CustomerService {
                                                                                    먎
                                                                                    8
          //保存对象
    9
                                                                                    ▣
   10
         public void save(Customer customer);
   11
                                                                                    8
    12
          //查询所有
                                                                                    ₽ŤŮ
          public List<Customer> findAll();
   13
   14
          //根据id 查询客户
   15
   16
          public Customer findById(Long id);
   17 }
   18

☑ CustomerServiceImpl.java 

☒

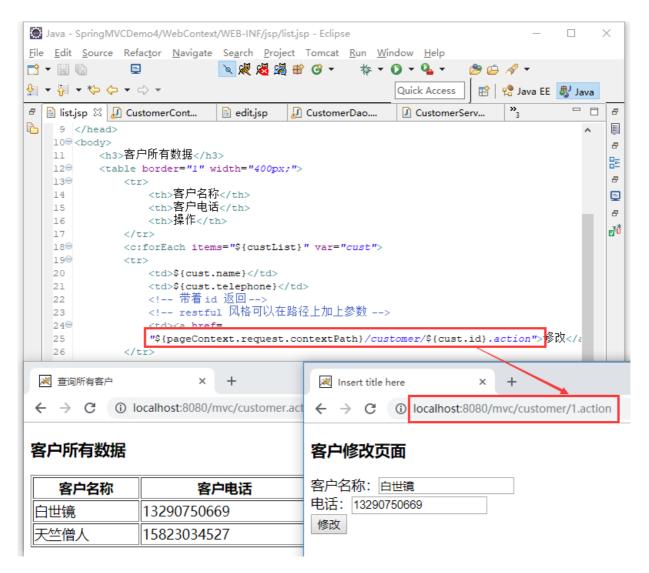
   28
29⊝
          @Override
   △30
          public List<Customer> findAll() {
   31
32
             return this.customerDao.findAll();
   33
   34⊖
          @Override
   <del>-</del>35
          public Customer findById(Long id) {
    36
              return this.customerDao.findById(id);
    37
    38
   39 }
   40
                    Writable
                               Smart Insert
                                         1:33
```

Dao:



测试:

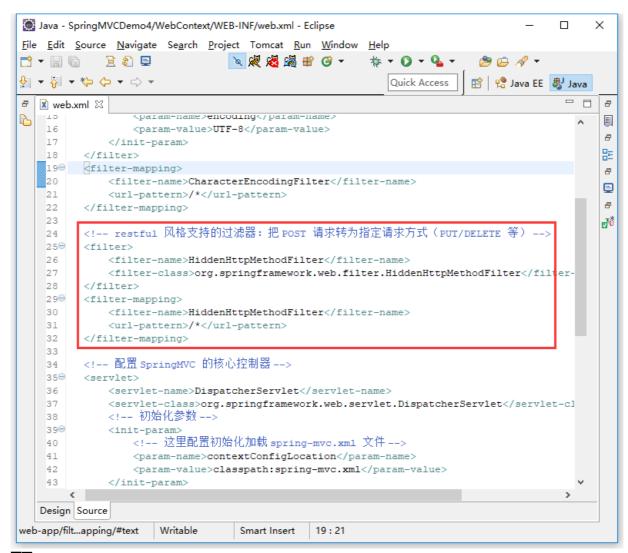
数据正确回显,请求的路径中带id值



# 客户数据保存更新

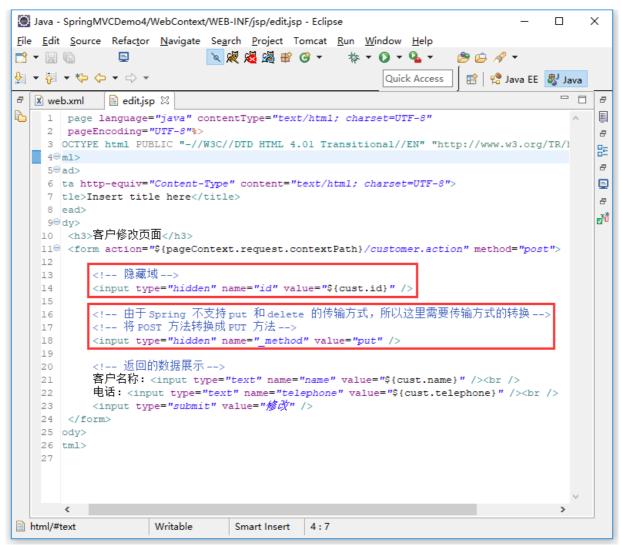
配置请求方法过滤器

作用: 把表单的 post 请求转换为 put 请求



页面: PS:

由于 Spring 不支持 put 和 delete 的传输方式,所以这里需要传输方式的转换,将 POST 方法转换成 PUT 方法



#### Controller:

以 restful 方式执行 UPDATE 操作,即:method=RequestMethod.PUT PS: PUT、DELETE 方式必须加上 @ResponseBody 注解,不然会报错

```
🗿 Java - SpringMVCDemo4/src/com/mapeak/smis/controller/CustomerController.java - Eclipse
                                                                                   <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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279
                                                                                      ^ | |
          @RequestMapping("/saveUI")
    28
          public String saveUI(){
                                                                                          8
    29
               return "save";
                                                                                         먎
    30
                                                                                          8
    31
    32
           //注入CustomerService 对象
                                                                                          ▣
    33⊖
           @Resource
                                                                                          8
          private CustomerService customerService;
    34
                                                                                         ₽ŤŮ
    35
          //修改客户
    36
           //将前端返回的数据封装到 JavaBean 对象
    37
          //restful 风格,PUT 请求方式,即为: UPDATE
    38
           //PUT、DELETE 方式必须加上@ResponseBody 注解,不然会报错
    39
    40⊖
           @ResponseBody
    41
           \verb|@RequestMapping| (method=RequestMethod. PUT)
    42
          public String Update(Customer customer, Model model) {
    43
              //更新数据
    44
    45
              this.customerService.update(customer);
              //返回处理结果
    46
              model.addAttribute("msg", "修改成功");
    47
    48
               //处理后跳转页面
    49
              return "success";
    50
    51
    52
          //查询一个客户
    53
          //使用restful 风格访问
    54
           //返回的id 值,获取url 中的id 值
    55
           @RequestMapping(value="/{id}", method=RequestMethod.GET)
    56⊖
      <
                    Writable
                                Smart Insert 30:8
```

Service:

```
🌉 Java - SpringMVCDemo4/src/com/mapeak/smis/service/impl/CustomerServiceImpl.java - Eclipse
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
                             ▼ 🔌 😂 🕶 😈 ▼ 🚺 🗉 🗊 🕸 🔊 🔊
Quick Access 📔 😭 Java EE 🐉 Java
                                                                                   _ _
                                                                                         5
🕒 🛭 CustomerService.java 🛭
                                                                                         8
   1 package com.mapeak.smis.service;
                                                                                         먎
   3⊕ import java.util.List;[
                                                                                         8
                                                                                         ▣
     7 public interface CustomerService {
                                                                                         8
          //更新对象
    9
                                                                                        ₽Ť
    10
          public void update(Customer customer);
    11
           //保存对象
    12
    13
          public void save(Customer customer);
    14
   16 //开始事务
   17 @Transactional
    18 public class CustomerServiceImpl implements CustomerService {
   19
   20
          //从 Ioc 容器中获取 DAO 对象
   219
          @Resource
    22
          private CustomerDao customerDao;
   23
    249
          @Override
   △25
           public void update(Customer customer) {
   26
              this.customerDao.update(customer);
   27
   28
                     Writable
                                 Smart Insert 30:42
```

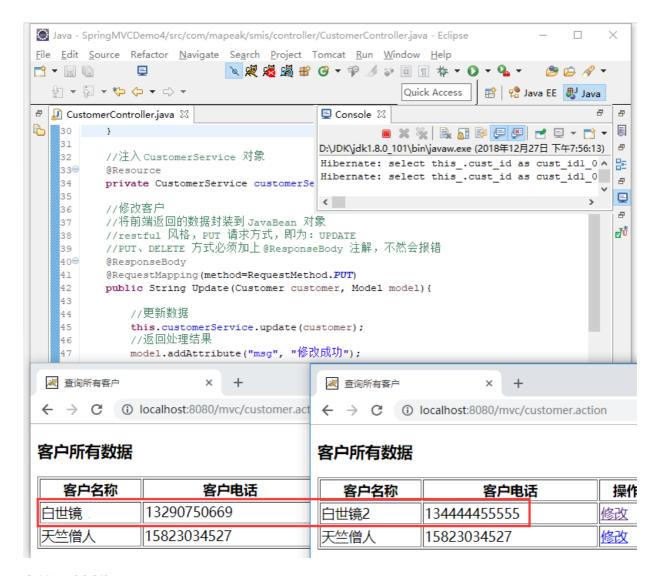
Dao:

```
🌉 Java - SpringMVCDemo4/src/com/mapeak/smis/dao/impl/CustomerDaoImpl.java - Eclipse
                                                                                   <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
                             ₽
  9 ▼ ₩ • ★ ♦ ▼ □ ▼
                                                         Quick Access
                                                                   🔡 😭 Java EE 🐉 Java
                                                                                    _ _
CustomerDao.java 🛭
                                                                                          8
    1 package com.mapeak.smis.dao;
                                                                                      A =
                                                                                          먎

¾ 3⊕ import com.mapeak.smis.domain.Customer;

                                                                                          8
                                                                                          ▣
    8 public interface CustomerDao {
9
                                                                                          8
    10
           //更新客户
                                                                                          ₽ŤŮ
    11
           public void update(Customer customer);
    12
   13
    14 @Repository
    15 public class CustomerDaoImpl extends HibernateDaoSupport implements CustomerDao {
    16
           //注入 SessionFactory 对象
    17
    18⊖
           @Resource
    19
           public void setMySessionFactory(SessionFactory sessionFactory){
    20
               super.setSessionFactory(sessionFactory);
    21
    22
    23⊖
          @Override
   △24
          public void update(Customer customer) {
    25
               this.getHibernateTemplate().update(customer);
    26
    27
   28⊝
           @Override
                     Writable
                                 Smart Insert
                                            36:6
```

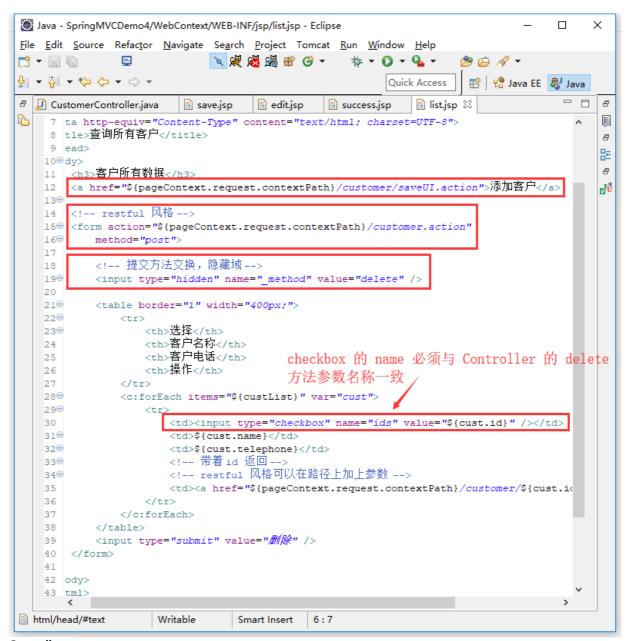
测试:



## 客户批量删除功能

页面:

PS: checkbox的 name 必须与 Controller的 delete 方法参数名称一致



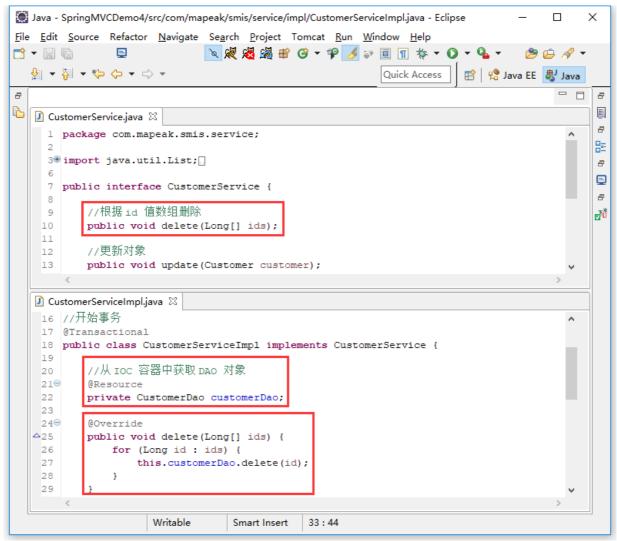
# Controller:

接收页面传过来的 id 集合,<mark>名称必须一致</mark> restful 风格,DELETE 请求方式,即为:DELETE

PUT、DELETE 方式必须加上 @ResponseBody 注解,不然会报错

```
🗿 Java - SpringMVCDemo4/src/com/mapeak/smis/controller/CustomerController.java - Eclipse
                                                                                File Edit Source Refactor Navigate Search Project Tomcat Run Window Help
B B A ▼
  9 ▼ ₩ ▼ ♦ ▼ □ ▼
                                                      Quick Access 🛮 😭 😭 Java EE 🐉 Java
🗗 🕖 CustomerController.java 🛭 🖹 save.jsp
                                                                                 _ _
                                  edit.jsp
                                             success.jsp
                                                          list.jsp
                                                                                      21
                                                                                   ^ <u>=</u>
    22 @Controller
                                                                                      8
    23 @RequestMapping("/customer")
                                                                                      먎
    24 public class CustomerController {
                                                                                      8
           //因为 save.jsp 页面在 WEB-INF 文件夹下,外部(浏览器)无法直接访问
                                                                                      ₽ŤŮ
    26
    27
           //用于跳转到 WEB-INF/jsp/save.jsp 页面
           @RequestMapping("/saveUI")
    28⊖
           public String saveUI(){
    30
               return "save";
    31
    32
           //注入CustomerService 对象
    33
    34⊜
           @Resource
    35
           private CustomerService customerService;
    36
           //删除客户
    37
           //接收页面传过来的ia 集合,名称必须一致
    38
           //restful 风格, DELETE 请求方式,即为: DELETE
    39
           //PUT、DELETE 方式必须加上@ResponseBody 注解,不然会报错
    40
    410
           @ResponseBody
    42
           @RequestMapping (method=RequestMethod.DELETE)
    43
           public String delete(Long[] ids, Map<String, Object> model) {
              this.customerService.delete(ids);
    44
    45
               model.put("msg", "删除成功");
               return "success";
    46
    47
    48
    49
           //修改客户
    50
                    Writable
                                Smart Insert
                                          2:3
```

Service:



#### Dao:

hibernateTemplate模板没有提供直接根据id来删除数据的方法,所以这里先根据id来查找对象,然后再将查找到的实体对象来删除

```
🌉 Java - SpringMVCDemo4/src/com/mapeak/smis/dao/impl/CustomerDaoImpl.java - Eclipse
                                                                                   <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
                             旦
  9 ▼ ₩ • ★ ♦ ▼ □ ▼
                                                         Quick Access 📔 😭 Java EE 🐉 Java
                                                                                    5
🚨 🔝 CustomerController.java 💹 CustomerDao.java 🛭
                                                                                          8
    package com.mapeak.smis.dao;
                                                                                      A =
                                                                                          먎

¼ 3⊕ import com.mapeak.smis.domain.Customer;

                                                                                          8
                                                                                          ▣
    8 public interface CustomerDao {
                                                                                          8
          //删除
    10
                                                                                          ₽Ť
    11
         public void delete(Long id);
    12

☐ CustomerDaoImpl.java 
☐

    14 @Repository
    15 public class CustomerDaoImpl extends HibernateDaoSupport implements CustomerDao {
    16
    17
           //注入 SessionFactory 对象
    189
           @Resource
    19
           public void setMySessionFactory(SessionFactory sessionFactory){
    20
              super.setSessionFactory(sessionFactory);
    21
    22
23
           //hibernateTemplate 模板没有提供直接根据id 来删除数据的方法,所以这里先根据
    24
           //ia 来查找对象,然后再将查找到的实体对象来删除
    25
   26⊖
⇔27
           @Override
           public void delete(Long id) {
    28
               this.getHibernateTemplate().delete(findById(id));
    29
                     Writable
                                 Smart Insert
                                            35:2
```

测试:

