# 第三章 SpringMVC(三)

-Ajax异步、统一全局异常处理、RESTFul编程、拦截器2018/11/14 [泽林.王峰]

# 授课目标

- 1、 上章回顾
- 2、 SpringMVC-Ajax异步处理
- 3、 SpringMVC全局异常统一处理
- 4、 SpringMVC-RESTful编程实践
- 5、 SpringMVC拦截器实战

## 授课内容

## 1、 上章回顾

# 2、 Spring-Ajax异步处理

## 2.1) 方式二:

只需要添加如下三个jar包就可以了。

```
commons=dbcp=1.2.2.jar
commons=i0=2.4.jar
commons=i0=2.4.jar
commons=logging=1.1.1.jar
commons=pool2=2.3.jar
commons=pool=1.3.jar
jackson=annotations=2.4.0.jar
jackson=core=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
jackson=databind=2.4.2.jar
log4j=1.2.jar
log4j=1.2.jar
log4j=1.2.jar
log4j=1.2.17.jar
```

## 2.1.1)修改resource/spring/applicationContext-mvc.xml文件

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

```
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
 2
 3
           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
           xmlns:context="http://www.springframework.org/schema/context"
 4
           xmlns:mvc="http://www.springframework.org/schema/mvc"
 5
 6
           xsi:schemaLocation="http://www.springframework.org/schema/beans"
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/mvc
    http://www.springframework.org/schema/mvc/spring-mvc.xsd">
        <!--1、配置springmvc的包扫描-->
 7
 8
        <context:component-scan base-package="com.zelin.web.controller"/>
 9
        <mvc:annotation-driven conversion-service="conversionService"/>
10
        <!--2.添加视图解析器-->
11
        <!--3.配置转换器-->
12
        <bean id="conversionService"</pre>
    class="org.springframework.format.support.FormattingConversionServiceFactoryBean">
13
            cproperty name="converters">
14
                t>
15
                    <bean class="com.zelin.web.converter.DateConverter"/>
16
                </list>
17
            </property>
18
        </bean>
19
    </beans>
```

#### 2.1.2) 前端页面index.html编写:

```
<!DOCTYPE html>
2
   <html lang="en">
3
   <head>
       <meta charset="UTF-8">
4
5
       <title>学生列表</title>
6
       <link rel="stylesheet" href="bootstrap-3.3.7/css/bootstrap.min.css">
7
       <script src="bootstrap-3.3.7/js/jquery.min.js"></script>
8
       <script src="bootstrap-3.3.7/js/bootstrap.min.js"></script>
9
       <style>
10
           .table {
               text-align: center;
11
12
           }
13
14
           .container {
15
               margin-top: 20px;
16
           }
17
       </style>
   </head>
18
19
   <body>
20
    <div class="container">
       <div class="panel panel-primary">
21
22
           <div class="panel-heading ">
               <h4 class="glyphicon glyphicon-user">学生管理系统</h4>
23
24
           </div>
25
```

```
26
27
                   学号
                   姓名
28
                   性别
29
30
                   付址
31
32
                   生日
33
                   新在班级
                   操作
34
35
               36
37
38
           <div class="panel-footer clearfix" style="text-align:right;padding:10px;">
39
               <a href="javascript:add()" class="btn btn-sm btn-warning pull-left</pre>
40
    glyphicon glyphicon-plus-sign"
41
                 id="btn add">添加学生</a>
42
               泽林信息版权所有 2000-2018.
43
           </div>
       </div>
44
45
   </div>
46
47
48
   <!-- 模态框(添加或修改学生) -->
    <div class="modal fade" id="myModal" tabindex="-1" role="dialog" aria-</pre>
49
    labelledby="myModalLabel">
       <div class="modal-dialog" role="document">
50
           <div class="modal-content">
51
               <div class="modal-header">
52
                   <button type="button" class="close" data-dismiss="modal" aria-</pre>
53
   label="Close"><span aria-hidden="true">&times;</span>
54
                   </button>
55
                   <h4 class="modal-title" id="myModalLabel">编辑学生信息</h4>
56
               </div>
57
               <div class="modal-body">
                   <form class="form-horizontal" id="form1">
58
                      <input type="hidden" name="sid" id="sid">
59
                      <div class="form-group">
60
                          <label class="col-sm-2 control-label">学生姓名:</label>
61
                          <div class="col-sm-10">
62
                              <input type="text" class="form-control" placeholder="輸</pre>
63
    入姓名" name="sname" id='sname'>
                          </div>
64
65
                      </div>
                      <div class="form-group">
66
67
                          <label class="col-sm-2 control-label">性别:</label>
                          <div class="radio">
68
69
                              <label>
70
                                 <input type="radio" name="sex" value="男" >男
71
                              </label>
72
                              <label>
                                 <input type="radio" name="sex" value="女">女
73
74
                              </label>
```

```
75
                              </div>
 76
                         </div>
 77
                         <div class="form-group">
                              <label class="col-sm-2 control-label">学生年龄:</label>
 78
 79
                              <div class="col-sm-10">
                                  <input type="text" class="form-control" placeholder="输</pre>
 80
     入年龄" name="age" id="age">
 81
                              </div>
                         </div>
 82
                         <div class="form-group">
 83
                              <label class="col-sm-2 control-label">学生住址:</label>
 84
                              <div class="col-sm-10">
 85
                                 <input type="text" class="form-control" placeholder="输</pre>
     入住址" name="addr" id="addr">
                              </div>
 87
                         </div>
 88
 89
                         <div class="form-group">
 90
                              <label class="col-sm-2 control-label">生日:</label>
 91
                              <div class="col-sm-10">
                                  <input type="text" class="form-control" placeholder="输</pre>
 92
     入生日" name="birth" id="birth">
 93
                             </div>
 94
                         </div>
 95
                         <div class="form-group">
                             <label class="col-sm-2 control-label">班级:</label>
 96
                              <div class="col-sm-10">
 97
                                  <select class="form-control" name="cid" id="cid">
98
 99
                                  </select>
100
101
                              </div>
102
                         </div>
103
                     </form>
104
                 </div>
105
106
                 <div class="modal-footer">
                     <button type="button" class="btn btn-default" data-dismiss="modal">
107
     关闭</button>
108
                     <button type="button" class="btn btn-primary" id="btn_save">保存
     </button>
109
                 </div>
110
             </div>
         </div>
111
112
     </div>
113
     </body>
     </html>
114
115
     <script>
116
         $(function () {
117
            //刷新列表
             reloadList();
118
119
         })
120
         //刷新列表
121
        function reloadList() {
122
```

```
123
            //1、发出异步请求加载所有的学生列表
124
            $.post(
125
                'student/list.action',
                function (data) {
126
127
                    var info = "":
128
                    $.each(data, function (i, v) {
129
                        var dt = new Date(v.birth);
                        var dtStr = dt.getFullYear() + "-" + (dt.getMonth() + 1) + "-" +
130
     dt.getDate();
                        info += "";
131
                        info += "" + v.sid + "";
132
                        info += "" + v.sname + "";
133
134
                        info += "" + v.sex + "";
135
                        info += "" + v.age + "";
                        info += "" + v.addr + "";
136
                       info += "" + dtStr + "";
137
138
                       info += "" + v.classes.cname + "";
139
                        info += "";
140
                        info += "<a href='javascript:;'</pre>
     onclick='updateStudent("+v.sid+")' class='btn btn-sm btn-info glyphicon glyphicon-
     pencil'>修改</a>&nbsp;"
141
                       info += "<a href='javascript:;' class='btn btn-sm btn-danger</pre>
     glyphicon glyphicon-trash' onclick='deleStudent("+v.sid+")'>删除</a>"
142
                       info += "";
                       info += "";
143
144
                    })
                    //放上面的字符串放到tbody中
145
146
                    $("#tb").html(info);
                }, "json"
147
148
            //2.发出异步请求,得到所有的班级列表
149
            $.post(
150
151
                'classes/list.action',
152
                function (data) {
153
                    var classesInfo = "";
154
                    $(data).each(function (i, v) {
                        classesInfo += "<option value='" + v.cid + "'>" + v.cname + "
155
     </option>";
156
                   })
                    $("#cid").html(classesInfo);
157
158
                }, "json")
159
        }
160
        //点击"添加学生"按钮
161
162
        $("#btn_add").click(function () {
163
            //1.显示模态对话框
164
            $('#myModal').modal('show');
165
            //2.清空表单
            $('#form1')[0].reset();
166
167
        })
168
        //点击"保存"按钮
169
        $("#btn_save").click(function () {
            //判断是添加还是修改操作?(因为此二者共用一个对话框)
170
```

```
if($('#sid').val() ){ //做修改操作
171
172
                 operation('student/update.action');
173
             }else{
                                                 //做添加操作
                 operation('student/add.action');
174
175
             }
176
177
         })
178
         function operation(url){
             //1.取出表单中的值
179
             var studentEntity = $("#form1").serialize();
180
             //2.将数据异步提交到数据库中
181
             $.post(
182
183
                 url,
184
                 studentEntity,
185
                 function (data) {
                     if(data.success){
186
187
                         //刷新列表
188
                         reloadList();
189
                     }else{
190
                         alert(data.message);
191
192
                     //关闭对话框
193
                     $('#myModal').modal('hide');
194
                 }, "json")
195
         //删除学生
196
         function deleStudent(v){
197
198
             $.post(
199
                 "student/delete.action&sid="+v,
200
                 function(data){
201
                     if(data.success){
                         //刷新列表
202
203
                         reloadList();
204
                     }else{
205
                         alert(data.message);
206
                 },"json"
207
208
             )
209
         }
         //修改学生
210
211
         function updateStudent(v) {
             $('#form1')[0].reset();
212
213
             //1.根据sid查询出这条记录(异步查询)
214
             $.post(
                 "student/findOne.action&sid="+v,
215
216
                 function(data){
                     //将得到的学生对象显示到表单中
217
218
                     $("#sname").val(data.sname);
219
                     $("#age").val(data.age);
220
                     $("#addr").val(data.addr);
221
                     $("#birth").val(data.birth);
222
                     $("#sname").val(data.sname);
                     $('#cid').val(data.cid);
223
```

```
224
                    //设置默认选择性别
225
                    $('input[name=sex]').each(function(i,v){
226
                       $(this).attr("checked",$(v).val() == data.sex);
                    })
227
228
                },'json'
229
            //2.显示对话框,并将当前这条记录显示到表单中
230
231
            $('#myModal').modal('show');
            //3.为表单中的隐藏域字段赋值
232
            $("#sid").val(v);
233
234
        }
235
    </script>
```

#### 2.1.3)后台页面StudentController.java

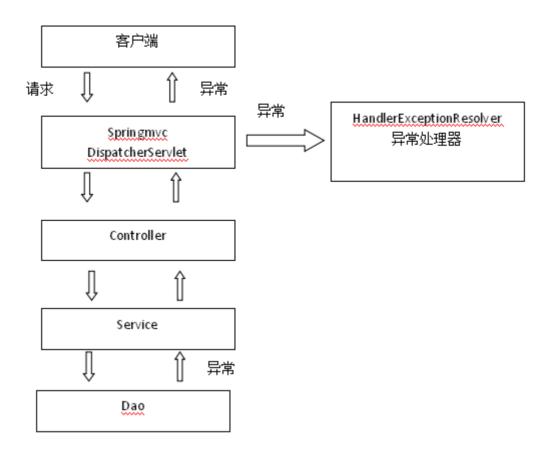
```
@RestController
 1
    @RequestMapping("/student")
    public class StudentController {
4
        @Autowired
 5
        private StudentService studentService;
 6
        //查询所有的学生
 7
        @RequestMapping("/list")
        public List<Student> findAll(){
 8
9
            return studentService.findAll();
10
        //添加学生
11
        @RequestMapping("/add")
12
13
        public Result add(Student student){
14
            try {
15
                studentService.add(student);
                return new Result(true,"添加成功");
16
17
            }catch (Exception e){
18
                e.printStackTrace();
19
                return new Result(false, "添加失败");
20
            }
21
        }
22
23
```

# 3、 SpringMVC全局异常统一处理

## 3.1) SpringMVC中异常处理原理:

系统中异常包括两类:预期异常和运行时异常RuntimeException,前者通过捕获异常从而获取异常信息,后者主要通过规范代码开发、测试通过手段减少运行时异常的发生。

系统的dao、service、controller出现都通过throws Exception向上抛出,最后由springmvc前端控制器交由异常处理器进行异常处理,如下图:



## 3.2)统一异常的处理步骤:

#### 3.2.1)自定义异常:

```
1
    * 自定义异常
 2
 3
 4
    public class MyException extends RuntimeException {
        private String message;
 5
 6
        @Override
        public String getMessage() {
 8
 9
            return message;
        }
10
11
        public void setMessage(String message) {
12
13
            this.message = message;
14
15
        public MyException(String message) {
16
            this.message = message;
17
18
        }
19
```

## 3.2.2)自定义统一异常处理器:

```
1
    @Component
2
    public class CustomHandlerException implements HandlerExceptionResolver{
3
        @Override
        public ModelAndView resolveException(HttpServletRequest request,
    HttpServletResponse response, Object o, Exception e) {
            //1.如果当前获取到的异常对象e就是MyException,则可以进行
5
            MyException exception = null;
6
7
            if(e instanceof MyException){
                exception = (MyException) e;
8
9
            }
            //2.取得异常信息
10
11
            String message = "";
            if(exception != null){
12
                message = exception.getMessage();
13
14
            }else{
                message = "对不起,出现了未知异常!";
15
16
            return new ModelAndView("error", "message", message);
17
        }
18
19
20
```

#### 3.2.3)在/WEB-INF/jsp/下添加error.jsp文件:

```
<%--
1
 2
      Created by IntelliJ IDEA.
 3
      User: Administrator
      Date: 2018/11/14
4
 5
     Time: 15:28
     To change this template use File | Settings | File Templates.
6
8
    <%@ page contentType="text/html;charset=UTF-8" language="java" %>
    <html>
9
    <head>
10
        <title>错误处理</title>
11
12
        <link rel="stylesheet" href="${pageContext.request.contextPath}/bootstrap-</pre>
    3.3.7/css/bootstrap.min.css">
13
        <script src="${pageContext.request.contextPath}/bootstrap-</pre>
    3.3.7/js/jquery.min.js"></script>
14
        <script src="${pageContext.request.contextPath}/bootstrap-</pre>
    3.3.7/js/bootstrap.min.js"></script>
    </head>
15
    <body>
    <div class="container">
17
        <div class="panel panel-primary">
18
            <div class="panel-heading ">
19
                <h4 class="glyphicon glyphicon-user">学生管理系统</h4>
20
            </div>
21
22
            <div class="panel-body">
23
                ${message}
            </div>
24
25
            <div class="panel-footer" style="text-align: right;">
```

```
      26
      泽林信息版权所有 2000-2018.

      27
      </div>

      28
      </div>

      29
      </div>

      30
      </body>

      31
      </html>
```

#### 3.2.4)在resource/spring/applicationContext-mvc.xml中添加视图解析器及扫描包:

```
<?xml version="1.0" encoding="UTF-8"?>
1
 2
    <beans xmlns="http://www.springframework.org/schema/beans"</pre>
           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 3
 4
           xmlns:context="http://www.springframework.org/schema/context"
 5
           xmlns:mvc="http://www.springframework.org/schema/mvc"
           xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/mvc
    http://www.springframework.org/schema/mvc/spring-mvc.xsd">
        <!--1、配置springmvc的包扫描-->
7
8
        <context:component-scan base-</pre>
    package="com.zelin.web.controller,com.zelin.web.exception"/>
9
        <mvc:annotation-driven conversion-service="conversionService"/>
10
        <!--2.添加视图解析器-->
11
        <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
            cproperty name="prefix" value="/WEB-INF/jsp/"/>
12
13
            roperty name="suffix" value=".jsp"/>
14
        </bean>
        <!--3.配置转换器-->
15
        <bean id="conversionService"</pre>
16
    class="org.springframework.format.support.FormattingConversionServiceFactoryBean">
17
            cproperty name="converters">
18
                t>
19
                    <bean class="com.zelin.web.converter.DateConverter"/>
20
                </list>
21
            </property>
22
        </bean>
23
    </beans>
```

#### 3.2.5)修改index.html页面

```
1
     <div class="panel-footer clearfix" style="text-align:right;padding:10px;">
                <a href="javascript:;" class="btn btn-sm btn-warning pull-left glyphicon</pre>
 2
    glyphicon-plus-sign"
 3
                   id="btn add">添加学生</a>
                <a href="javascript:;" class="btn btn-sm btn-success pull-left glyphicon</pre>
4
    glyphicon-plus-sign"
 5
                   id="btn_exception">测试统一异常处理</a>
                泽林信息版权所有 2000-2018.
 6
 7
            </div>
8
    //测试异常处理
9
10
        $("#btn_exception").click(function(){
            location.href="student/exceHandler.action"
11
12
        })
```

#### 3.2.6)后台

```
1  @RequestMapping("/exceHandler")
2  public void exceHandler(){
3  throw new MyException("测试异常处理!");
4 }
```

#### 3.2.7)页面展示

```
★学生管理系统
测试异常处理!
译林信息版权所有 2000-2018.
```

# 4、 SpringMVC-RESTful编程实践

#### 4.1)修改web.xml文件:

```
1
    <!--配置springmvc-->
 2
        <servlet>
 3
            <servlet-name>springmvc</servlet-name>
4
            <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-</pre>
    class>
 5
            <init-param>
                <param-name>contextConfigLocation
 6
 7
                <param-value>classpath*:spring/applicationContext-mvc.xml</param-value>
            </init-param>
 8
9
        </servlet>
10
        <servlet-mapping>
11
            <servlet-name>springmvc</servlet-name>
            <url-pattern>/</url-pattern>
12
13
        </servlet-mapping>
```

#### 4.2)排除静态资源,修改resource/spring/applictionContext-mvc.xml

#### 4.3)修改页面/WEB-INF/html/student/list.html

```
<!DOCTYPE html>
1
   <html lang="en">
3
   <head>
      <meta charset="UTF-8">
4
      <title>学生列表</title>
5
6
      <link rel="stylesheet" href="../../bootstrap-3.3.7/css/bootstrap.min.css">
7
      <script src="../../bootstrap-3.3.7/js/jquery.min.js"></script>
8
      <script src="../../bootstrap-3.3.7/js/bootstrap.min.js"></script>
9
      <style>
10
          .table {
             text-align: center;
11
12
          }
13
14
          .container {
15
             margin-top: 20px;
16
          }
17
       </style>
18
   </head>
19
   <body>
20
   <div class="container">
21
      <div class="panel panel-primary">
22
          <div class="panel-heading">
23
             <h4 class="glyphicon glyphicon-user">学生管理系统</h4>
24
          </div>
          25
             26
                学号
27
28
                姓名
                 性别
29
30
                年龄
                 住址
31
32
                生日
33
                新在班级
                操作
34
35
             36
             37
38
          <div class="panel-footer clearfix" style="text-align:right;padding:10px;">
39
40
          <a href="javascript:;" class="btn btn-sm btn-warning pull-left glyphicon</pre>
   glyphicon-plus-sign"
41
            id="btn_add">添加学生</a>
```

```
<a href="javascript:;" class="btn btn-sm btn-success pull-left glyphicon</pre>
    glyphicon-plus-sign"
43
               id="btn exception">测试统一异常处理</a>
            泽林信息版权所有 2000-2018.
44
45
        </div>
46
        </div>
47
48
    </div>
49
    <!-- 模态框(添加或修改学生) -->
50
    <div class="modal fade" id="myModal" tabindex="-1" role="dialog" aria-</pre>
51
    labelledby="myModalLabel">
        <div class="modal-dialog" role="document">
            <div class="modal-content">
53
                <div class="modal-header">
5.4
                    <button type="button" class="close" data-dismiss="modal" aria-</pre>
55
    label="Close"><span aria-hidden="true">&times;</span>
56
                    </button>
57
                    <h4 class="modal-title" id="myModalLabel">编辑学生信息</h4>
58
                </div>
                <div class="modal-body">
59
                    <form class="form-horizontal" id="form1">
60
61
                         <input type="hidden" name="sid" id="sid">
                         <div class="form-group">
62
                             <label class="col-sm-2 control-label">学生姓名:</label>
63
64
                             <div class="col-sm-10">
                                 <input type="text" class="form-control" placeholder="输</pre>
65
    入姓名" name="sname" id='sname'>
66
                             </div>
67
                         </div>
68
                         <div class="form-group">
                             <label class="col-sm-2 control-label">性别:</label>
69
70
                             <div class="radio">
71
                                 <lahel>
72
                                     <input type="radio" name="sex" value="男" >男
73
                                 </label>
                                 <label>
7.4
75
                                     <input type="radio" name="sex" value="女">女
76
                                 </label>
                             </div>
77
78
                         </div>
79
                         <div class="form-group">
80
                             <label class="col-sm-2 control-label">学生年龄:</label>
81
                             <div class="col-sm-10">
                                 <input type="text" class="form-control" placeholder="输</pre>
82
    入年龄" name="age" id="age">
83
                             </div>
84
                         </div>
85
                         <div class="form-group">
                             <label class="col-sm-2 control-label">学生住址:</label>
86
87
                             <div class="col-sm-10">
88
                                 <input type="text" class="form-control" placeholder="輸</pre>
```

```
入付址" name="addr" id="addr">
 89
                             </div>
 90
                         </div>
                         <div class="form-group">
 91
 92
                             <label class="col-sm-2 control-label">牛日:</label>
 93
                             <div class="col-sm-10">
 94
                                <input type="text" class="form-control" placeholder="输</pre>
     入生日" name="birth" id="birth">
                             </div>
 95
                         </div>
 96
97
                         <div class="form-group">
                             <label class="col-sm-2 control-label">班级:</label>
98
 99
                             <div class="col-sm-10">
                                 <select class="form-control" name="cid" id="cid">
100
101
102
                                 </select>
103
                            </div>
104
                         </div>
105
                     </form>
106
                 </div>
107
108
                 <div class="modal-footer">
                     <button type="button" class="btn btn-default" data-dismiss="modal">
109
     关闭</button>
                     <button type="button" class="btn btn-primary" id="btn_save">保存
110
     </button>
111
                 </div>
             </div>
112
113
         </div>
114
     </div>
115
     </body>
     </html>
116
117
     <script>
         $(function () {
118
119
             //刷新列表
120
             reloadList();
121
         })
122
         //刷新列表
123
         function reloadList() {
124
             //1、发出异步请求加载所有的学生列表
125
             $.post(
126
127
                 'list',
128
                 function (data) {
                     var info = "";
129
130
                     $.each(data, function (i, v) {
131
                         var dt = new Date(v.birth);
                         var dtStr = dt.getFullYear() + "-" + (dt.getMonth() + 1) + "-" +
132
     dt.getDate();
                         info += "";
133
134
                         info += "" + v.sid + "";
                         info += "" + v.sname + "";
135
                         info += "" + v.sex + "";
136
```

```
137
                        info += "" + v.age + "";
138
                        info += "" + v.addr + "";
139
                        info += "" + dtStr + "";
                        info += "" + v.classes.cname + "";
140
141
                        info += "";
142
                        info += "<a href='javascript:;'</pre>
     onclick='updateStudent("+v.sid+")' class='btn btn-sm btn-info glyphicon glyphicon-
     pencil'>修改</a>&nbsp;"
                        info += "<a href='javascript:;' class='btn btn-sm btn-danger</pre>
143
     glyphicon glyphicon-trash' onclick='deleStudent("+v.sid+")'>删除</a>"
                        info += "";
144
                        info += "";
145
146
                    })
147
                    //放上面的字符串放到tbody中
148
                    $("#tb").html(info);
                }, "json"
149
            );
150
151
            //2.发出异步请求,得到所有的班级列表
152
                '../classes/list',
153
154
                function (data) {
                    var classesInfo = "";
155
156
                    $(data).each(function (i, v) {
                        classesInfo += "<option value='" + v.cid + "'>" + v.cname + "
157
     </option>";
158
                    })
                    $("#cid").html(classesInfo);
159
160
                }, "json")
161
         }
162
         //点击"添加学生"按钮
163
         $("#btn_add").click(function () {
164
165
            //1.显示模态对话框
166
            $('#myModal').modal('show');
167
            //2.清空表单
168
            $('#form1')[0].reset();
         })
169
170
         //测试异常处理
171
         $("#btn_exception").click(function(){
            location.href="student/exceHandler.action"
172
173
         })
         //点击"保存"按钮
174
         $("#btn_save").click(function () {
175
            //判断是添加还是修改操作?(因为此二者共用一个对话框)
176
            if($('#sid').val()){
                                        //做修改操作
177
178
                operation('student/update');
179
            }else{
                                               //做添加操作
                operation('student/add');
180
            }
181
182
183
         })
184
         function operation(url){
            //1.取出表单中的值
185
```

```
186
             var studentEntity = $("#form1").serialize();
187
             //2.将数据异步提交到数据库中
188
             $.post(
189
                 url,
190
                 studentEntity,
191
                 function (data) {
192
                     if(data.success){
193
                         //刷新列表
194
                         reloadList();
195
                     }else{
196
                         alert(data.message);
197
                     }
198
                     //关闭对话框
199
                     $('#myModal').modal('hide');
                 }, "json")
200
201
         }
202
         //删除学生
203
         function deleStudent(v){
204
             $.post(
                 "student/delete/"+v,
205
206
                 function(data){
                     if(data.success){
207
208
                         //刷新列表
209
                         reloadList();
210
                     }else{
211
                         alert(data.message);
212
                     }
                 },"json"
213
             )
214
215
216
         //修改学生
         function updateStudent(v) {
217
218
             $('#form1')[0].reset();
219
             //1.根据sid查询出这条记录(异步查询)
220
221
             $.post(
                 "findOne/"+v,
222
223
                 function(data){
224
                     var dt = new Date(data.birth);
                     var dtStr = dt.getFullYear() + "-" + (dt.getMonth() + 1) + "-" +
225
     dt.getDate();
                     //将得到的学生对象显示到表单中
226
227
                     $("#sname").val(data.sname);
228
                     $("#age").val(data.age);
                     $("#addr").val(data.addr);
229
230
                     $("#birth").val(dtStr);
231
                     $("#sname").val(data.sname);
232
                     $('#cid').val(data.cid);
                     //设置默认选择性别
233
234
                     $('input[name=sex]').each(function(i,v){
235
                         $(this).attr("checked",$(v).val() == data.sex);
236
                     })
237
                 },'json'
```

#### 4.4)在StudentController.java中添加处理器

```
@Controller
 1
    @RequestMapping("/student")
 2
    public class StudentController {
4
        @Autowired
 5
        private StudentService studentService;
 6
        //进行学生列表的首页
 7
 8
        @RequestMapping("/tolist")
9
        public String welcome(){
            return "student/list";
10
11
        }
        //根据学生编号查询学生
12
        @RequestMapping("/findOne/{sid}")
13
14
        @ResponseBody
15
        public Student findOne(@PathVariable() String sid){
            return studentService.findOne(sid);
16
17
        }
        //查询所有的学生
18
19
        @RequestMapping("/list")
20
        @ResponseBody
        public List<Student> findAll(){
21
22
            return studentService.findAll();
23
        }
24
        //根据学号删除学生
25
        @RequestMapping("/delete/{sid}")
26
        @ResponseBody
27
        public Result delete(@PathVariable String sid){
28
            try{
29
                studentService.delete(sid);
                return new Result(true,"删除成功!");
30
31
            }catch (Exception e){
32
                e.printStackTrace();
                return new Result(false,"删除失败!");
33
34
            }
35
36
        //添加学生
37
        @RequestMapping("/add")
38
39
        @ResponseBody
        public Result add(Student student){
40
41
            try {
42
                studentService.add(student);
```

```
43
                return new Result(true, "添加成功");
44
            }catch (Exception e){
45
                e.printStackTrace();
                return new Result(false,"添加失败");
46
47
            }
48
        }
        @RequestMapping("/exceHandler")
49
        public void exceHandler(){
           throw new MyException("测试异常处理!");
51
52
        }
53
54
```

#### 4.5)演示略。

# 5、 SpringMVC拦截器实战

# 5.1) 定义一个拦截器:

# 第一步:\*\*实现HandlerInterceptor接口,实现其中的三个抽象方法: \*\*

```
**
public class FirstInterceptor implements HandlerInterceptor {
//在执行处理器前调用
//返回值说明:true:代表可以调用下一个拦截器 false:代表不能再向下执行
@Override
public boolean preHandle(HttpServletRequest request, HttpServletResponse response,
Object arg2) throws Exception {
System.out.println("FirstInterceptor→preHandle(),执行时间是:"+new Date(),getTime());
return true;
}
//在执行完处理器后调用,一般在此做收尾工作,比如,统一异常处理,也可以在此进行
@Override
public void afterCompletion(HttpServletRequest request, HttpServletResponse response,
Object arg2, Exception exception)
throws Exception {
System.out.println("FirstInterceptor→afterCompletion(),执行时间是:"+new Date().getTime());
}
//在执行处理器之后,在视图渲染前调用
```

```
@Override

public void postHandle(HttpServletRequest request, HttpServletResponse response,
Object arg2, ModelAndView mv)

throws Exception {
System.out.println("FirstInterceptor→postHandle(),执行时间是:"+ new Date().getTime());
//取得模型和视图
String viewName = mv.getViewName(); //取得视图名称
List students = (List) mv.getModel().get("students");
System.out.println("视图名:" + viewName);
System.out.println("模型内容:" + students);
```

## 第二步:在\*\*applicationContext-springmvc.xml中配置拦截器:\*\*

mvc:interceptors

}

```
<!-- mvc:interceptor

<mvc:mapping path="/**"/>
/mvc:interceptor -->
```

/mvc:interceptors

## 第三步:测试拦截器:

# 5.2) 定义多个拦截器:

## 第一步:定义第二个拦截器

//第二种定义拦截器的方法

public class SecondInterceptor extends HandlerInterceptorAdapter {

@Override

```
public void afterCompletion(HttpServletReguest request, HttpServletResponse response, Object handler,
Exception ex)
throws Exception {
System.out.println("SecondInterceptor→afterCompletion()");
}
@Override
public void postHandle(HttpServletReguest reguest, HttpServletResponse response, Object handler,
ModelAndView modelAndView) throws Exception {
System.out.println("SecondInterceptor→postHandle()");
}
@Override
public boolean preHandle(HttpServletRequest request, HttpServletResponse response, Object handler)
throws Exception {
System.out.println("SecondInterceptor→preHandle()");
return true;
}
第二步:配置拦截器:(下面配置拦截器适用于所有控制器)
```

## 第三步:测试多个拦截器执行顺序:

```
FirstInterceptor→preHandle(),执行时间是: 1528877419874
SecondInterceptor→preHandle()
SecondInterceptor→postHandle()
FirstInterceptor→postHandle(),执行时间是: 1528877420917
阅图名:student/list
模型内容: [Student [sid=1, sname=张三, sex=男, age=20, addr=上海, classes=com.zelin.ent
SecondInterceptor→afterCompletion()
FirstInterceptor→afterCompletion(),执行时间是: 1528877421067
```

## 小结:

- 1) 在上面实验可以看出,拦截器的preHandler()方法根据定义的先后顺序执行。
- 2) 拦截器的postHandler()方法及afterCompletion()都会根据定义的逆序执行。

# 5.3) 用户登录-拦截实现:

第一步: 定义login.jsp页面:

## 四六水口

用尸宜录
输入用户名:
*"提交"*
第二步:定义一个登录拦截器:
//登录拦截器
<pre>public class LoginInterceptor extends HandlerInterceptorAdapter {</pre>
@Override
<b>public boolean</b> preHandle(HttpServletRequest request, HttpServletResponse response, Object handler)
throws Exception {
HttpSession session = request.getSession();
//得到用户名
Object obj = session.getAttribute("username");
String username = <b>null</b> ;
<b>if</b> (obj != <b>null</b> ){
username = (String) obj;
}else{
response.sendRedirect(request.getContextPath() + "/login.jsp" );
}
return true;
}
}

第三步:配置拦截器,只拦截指定的控制器,并且可以排除指定的控制器 方法

```
<!-- 配置拦截器 -->
<mvc:interceptors>
   <!-- 第一种配置方法: 代表拦截所有的控制器 -->
   <!-- <mvc:interceptor>
       <mvc:mapping path="/**"/>
       <bean class="com.zelin.interceptor.FirstInterceptor"/>
   </mvc:interceptor> -->
   <!-- 第二种配置方法:可以直接定义在这里,会对所有的控制器起作用 -->
   <!-- <bean class="com.zelin.interceptor.FirstInterceptor"/>
   <bean class="com.zelin.interceptor.SecondInterceptor"/>
                                                             代表只拦截user控制器,排除use:
下的login方法
   <!-- 第三种配置方式: 只拦截指定的控制器 -->
   <mvc:interceptor>
       <mvc:mapping path="/user/**"/>
       <mvc:exclude-mapping path="/user/login" />
       <bean class="com.zelin.interceptor.LoginInterceptor"/>
   </mvc:interceptor>
</mvc:interceptors>
```

第四步:演示功能:

## 用户登录

输入用户名:		提交
--------	--	----

admin,登录成功!