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# 记账管理项目

需求：实现个人记账管理项目

## 账单列表

类型

全部

开始时间

开始时间

结束时间

结束时间

查询

重置

添加

#	标题	时间	金额	类别	说明	操作
	交通费	2017-06-26	1.23	收入	a	修改
	饭补	2017-06-27	2.23	收入	b	修改
	出差费	2017-06-28	33.0	支出	c	修改
	奖金	2017-06-29	44.0	支出	d	修改
	1	2018-10-18	1.0	支出		修改
	采购办公用品2222	2019-05-29	666.0	借入	888	修改
	as					修改
	f					修改
	asdf					修改
	as					修改

第一页

上一页

1

2

3

4

5

6

7

8

下一页

最后一页

## 添加账单

类型

收入

标题

标题

日期

日期

金额

金额

说明

说明

保存

重置

# 修改账单

类型

收入

标题

交通费

日期

2017-06-26

金额

1.23

说明

a

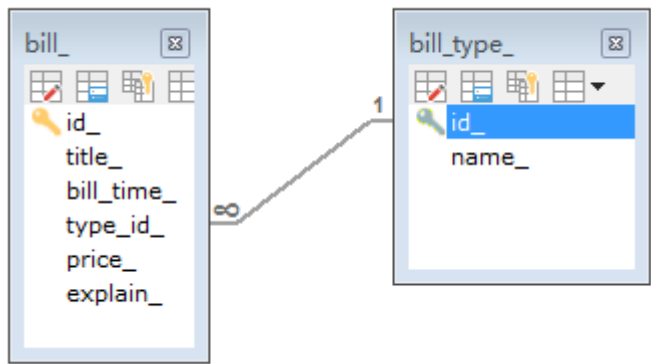
保存

重置

## 技术栈

- springboot
- mybatis
- tk mybatis
- thymeleaf

## 表结构



## 创建项目，引入依赖

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.lxs</groupId>
    <artifactId>bill-manager-tk</artifactId>
    <version>1.0-SNAPSHOT</version>

    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.0.0.RELEASE</version>
    </parent>

    <properties>
```

```

    <java.version>1.8</java.version>
</properties>

<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
    </dependency>

    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>5.1.46</version>
    </dependency>

    <!-- 通用mapper -->
    <dependency>
        <groupId>tk.mybatis</groupId>
        <artifactId>mapper-spring-boot-starter</artifactId>
        <version>2.0.2</version>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>

</dependencies>

</project>

```

## spring boot 启动器

```

@SpringBootApplication
@MapperScan("com.lxs.dao")
public class BillManagerApplication {

    public static void main(String[] args) {

        SpringApplication.run(BillManagerApplication.class, args);
    }
}

```

application.properties: springboot全局配置文件(可以拷贝)

#连接池

```

spring:
  datasource:
    driver-class-name: com.mysql.jdbc.Driver
    username: root
    password: root
    url: jdbc:mysql://localhost:3306/bill-manager
  thymeleaf:
    cache: false #关闭thymeleaf缓存

#整合mybatis
mybatis:
  type-aliases-package: com.lxs.entity #别名搜索
  mapper-locations: classpath:/mybatis/*.xml

```

## 实体类

### 账单类型

```

@Table(name = "bill_type")
public class BillType implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id_")
    private Long id;

    @Column(name = "name_")
    private String name;
}

```

### 账单

```

@Table(name = "bill_")
public class Bill implements Serializable {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id_")
    private Long id;
    @Column(name = "title_")
    private String title;
    @Column(name = "bill_time_")
    private Date billTime;
    @Column(name = "type_id_")
    private Long typeId;
    @Column(name = "price_")
    private Double price;
    @Column(name = "explain_")
    private String explain;

    /**
     * 类别名称
     */
}

```

```

@Transient
private String typeName;

/**
 * 开始时间:用于查询
 */
@Transient
private Date date1;

/**
 * 结束时间: 用于查询
 */
@Transient
private Date date2;

```

注意 @Transient注解表示当前属性为瞬时属性，跟字段没有映射，上面实体类中date1和date2只作为查询条件存在，跟表中的字段没有关联

dao

```

public interface BillMapper extends Mapper<Bill> {

    public List<Bill> select(Bill b);

}

```

```

public interface TypeMapper extends Mapper<BillType> {

}

```

查询修改的映射文件

tk mybatis内置查询比较单一固定，不灵活，不能实现动态查询，动态修改语句，所以特定需求的查询需要写映射文件

```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper
PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.lxs.dao.BillMapper">

    <sql id="selectSql">
        SELECT
            b.id_ as id,
            b.title_ as title,
            b.bill_time_ as billTime,
            b.type_id_ as typeId,
            b.price_ as price,
            b.explain_ as `explain`,

```

```

        t.name_ as typeName
    FROM
        bill_ as b
    left join
        bill_type_ as t
    on
        b.type_id_ = t.id_
</sql>

<select id="select" resultType="bill">
    <include refid="selectSql"/>
    <where>
        <if test="typeId !=null">
            b.type_id_ = #{typeId}
        </if>
        <if test="title !=null">
            and b.title_ like '%${title}%'
        </if>
        <if test="date1 !=null">
            and b.bill_time_ >= #{date1}
        </if>
        <if test="date2 !=null">
            and b.bill_time_ <= #{date2}
        </if>
    </where>
</select>

</mapper>

```

**注意：**explain字段名在mysql 中是关键词必须使用``包裹

service

```

@Service
public class BillService {

    @Autowired
    private BillMapper billMapper;

    public List<Bill> list(Bill b) {
        return billMapper.select(b);
    }

    public int add(Bill b) {
        return billMapper.insert(b);
    }

    public Bill get(Long id) {
        return billMapper.selectByPrimaryKey(id);
    }

    public int update(Bill b) {
        return billMapper.updateByPrimaryKey(b);
    }
}

```

```

    }

    public int delete(Long id) {
        return billMapper.deleteByPrimaryKey(id);
    }

}

```

```

@Service
public class TypeService {

    @Resource
    private TypeMapper typeMapper;

    public List<BillType> list() {
        return typeMapper.selectAll();
    }

}

```

## 测试

```

@RunWith(SpringRunner.class)
@SpringBootTest
public class BillServiceTest {

    @Autowired
    private BillService billService;

    @Test
    public void list() {
        Bill b = new Bill();
        b.setTitle("a");
        List<Bill> list = billService.list(b);
        for (Bill bill : list) {
            System.out.println(bill.getTitle());
        }
    }

}

```

## controller

```

@Controller
@RequestMapping("/bill")
public class BillController {

    @Resource
    private TypeService typeService;
}

```

```

@Resource
private BillService billService;

/**
 * 查询
 * @param b
 * @param model
 * @return
 */
@RequestMapping("/list")
public String list(Bill b, Model model) {
    List<BillType> types = typeService.list();
    model.addAttribute("types", types);

    List<Bill> list = billService.list(b);
    model.addAttribute("list", list);

    model.addAttribute("bill", b);

    return "/bill/list";
}

/**
 * 调到添加页面
 * @return
 */
@RequestMapping("/toAdd")
public String toAdd(Model model) {
    List<BillType> types = typeService.list();
    model.addAttribute("types", types);

    return "/bill/add";
}

/**
 * 添加
 * @param b
 * @return
 */
@RequestMapping("/add")
public String add(Bill b) {
    billService.add(b);
    return "redirect:/bill/list";
}

/**
 * 删除
 * @param id
 * @return
 */
@RequestMapping("/delete/{id}")
public String delete(@PathVariable("id") Long id) {

    billService.delete(id);
}

```



```

        return "redirect:/bill/list";
    }

    /**
     * 修改
     * @param id
     * @return
     */
    @RequestMapping("/toUpdate/{id}")
    public String toUpdate(@PathVariable("id") Long id, Model model) {
        List<BillType> types = typeService.list();
        model.addAttribute("types", types);

        Bill bill = billService.get(id);
        model.addAttribute("bill", bill);

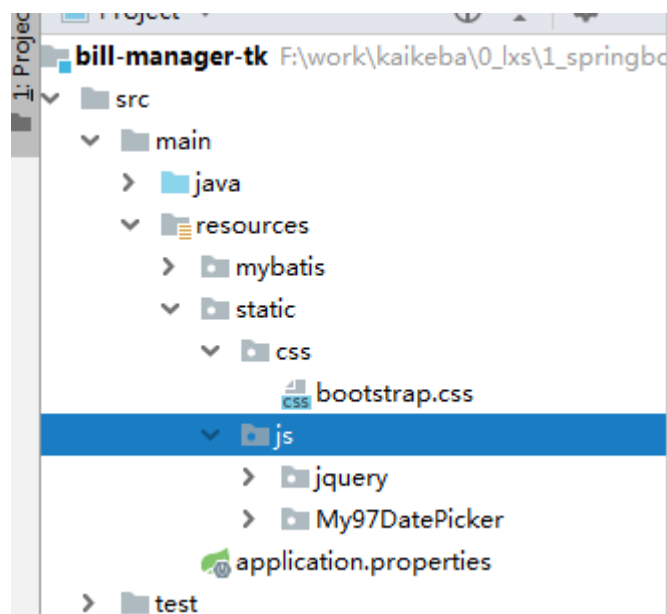
        return "/bill/update";
    }

    /**
     * 修改
     * @param b
     * @return
     */
    @RequestMapping("/update")
    public String update(Bill b) {
        billService.update(b);
        return "redirect:/bill/list";
    }
}

```

## 页面

拷贝素材中我们用到的bootstrap.css样式和jquery和my97日历控件相关静态资源到/resources/static目录



```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8"/>
    <title>userList</title>
    <link rel="stylesheet" th:href="@{/css/bootstrap.css}"></link>
    <script type="text/javascript" th:src="@{/js/My97DatePicker/WdatePicker.js}"></script>
    <script type="text/javascript" src="/js/My97DatePicker/lang/zh-cn.js"></script>
    <script type="text/javascript" th:src="@{/js/jquery/jquery-1.10.2.min.js}"></script>
</head>
<body class="container">
<br/>
<h1>账单列表</h1>
<br/><br/>
<div class="with:80%">
    <form class="form-inline" id="qf" th:action="@{/bill/list}" method="post">

        <div class="form-group">
            <label for="typeId" class="control-label">类型</label>
            <select name="typeId" id="typeId" class="form-control">
                <option value="">全部</option>
                <option th:each="t:${types}" th:value="${t.id}" th:text="${t.name}"
th:selected="(${bill.typeId} == ${t.id})" ></option>
            </select>
        </div>
        <div class="form-group">
            <label for="date1" class="control-label">开始时间</label>
            <input type="text" class="form-control" name="date1" id="date1" placeholder="开始时间" th:value="${bill.date1} ? ${#dates.format(bill.date1, 'yyyy-MM-dd')}"
onclick="WdatePicker()"/>
        </div>
        <div class="form-group">
            <label for="date2" class="control-label">结束时间</label>
            <input type="text" class="form-control" name="date2" id="date2" placeholder="结束时间" th:value="${bill.date2} ? ${#dates.format(bill.date2, 'yyyy-MM-dd')}"
onclick="WdatePicker()"/>
        </div>
        <div class="form-group">
            <input type="submit" value="查询" class="btn btn-info" />
            &nbsp; &nbsp;
            <input type="reset" value="重置" class="btn btn-info" />
            &nbsp; &nbsp;
            <a href="/bill/toAdd" th:href="@{/bill/toAdd}" class="btn btn-info">添加</a>
        </div>
    </form>
</div>
<br/>

<div class="with:80%">
    <table class="table table-striped table-bordered">
        <thead>

```

```

        <tr>
            <th>#</th>
            <th>标题</th>
            <th>时间</th>
            <th>金额</th>
            <th>类别</th>
            <th>说明</th>
            <th>操作</th>
        </tr>
    </thead>
    <tbody>
        <tr th:each="b, bstatus : ${list}" th:style="${bstatus.odd} ? 'background-color:
#A3C6C8'">
            <th scope="row" th:text="${bill.id}">id</th>
            <td th:text="${b.title}">name</td>
            <td th:text="${b.billTime} ? ${#dates.format(b.billTime, 'yyyy-MM-dd')}">time</td>
            <td th:text="${b.price}">price</td>
            <td th:text="${b.typeName}">typeName</td>
            <td th:text="${b.explain}">explain</td>

            <td>
                <a th:href="/bill/delete/*{id}|">删除</a>
                <a th:href="/bill/toUpdate/*{id}|">修改</a>
            </td>
        </tr>
    </tbody>
</table>
</div>

</body>
</html>

```

add.html

```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8"/>
    <title>user</title>
    <link rel="stylesheet" th:href="@{/css/bootstrap.css}"></link>
    <script type="text/javascript" th:src="@{/js/My97DatePicker/WdatePicker.js}"></script>
    <script type="text/javascript" src="/js/My97DatePicker/lang/zh-cn.js"></script>

</head>
<body class="container">
<br/>
<h1>添加账单</h1>
<br/><br/>
<div class="with:80%">

    <form class="form-horizontal" th:action="@{/bill/add}" method="post"

```

```

enctype="multipart/form-data">
    <div class="form-group">
        <label for="typeId" class="col-sm-2 control-label">类型</label>
        <div class="col-sm-10">
            <select name="typeId" id="typeId" class="form-control">
                <option th:each="t:${types}" th:value="${t.id}" th:text="${t.name}" >
</option>
                </select>
            </div>
        </div>
        <div class="form-group">
            <label for="title" class="col-sm-2 control-label">标题</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="title" id="title" placeholder="标
题"/>
            </div>
        </div>
        <div class="form-group">
            <label for="billTime" class="col-sm-2 control-label">日期</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="billTime" id="billTime"
placeholder="日期" onclick="WdatePicker()"/>
            </div>
        </div>
        <div class="form-group">
            <label for="price" class="col-sm-2 control-label">金额</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="price" id="price" placeholder="金
额"/>
            </div>
        </div>
        <div class="form-group">
            <label for="explain" class="col-sm-2 control-label">说明</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="explain" id="explain"
placeholder="说明"/>
            </div>
        </div>

        <div class="form-group">
            <div class="col-sm-offset-2 col-sm-10">
                <input type="submit" value="保存" class="btn btn-info" />
                &nbsp; &nbsp; &nbsp;
                <input type="reset" value="重置" class="btn btn-info" />
            </div>

        </div>
    </form>
</div>
</body>
</html>

```

```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8"/>
    <title>user</title>
    <link rel="stylesheet" th:href="@{/css/bootstrap.css}"></link>
    <script type="text/javascript" th:src="@{/js/My97DatePicker/WdatePicker.js}"></script>
    <script type="text/javascript" src="/js/My97DatePicker/lang/zh-cn.js"></script>
</head>
<body class="container">
<br/>
<h1>修改账单</h1>
<br/><br/>
<div class="with:80%">
    <form class="form-horizontal" th:action="@{/bill/update}" method="post"
th:object="${bill}">
        <input type="hidden" name="id" th:value="*{id}" />
        <div class="form-group">
            <label for="typeId" class="col-sm-2 control-label">类型</label>
            <div class="col-sm-10">
                <select name="typeId" id="typeId" class="form-control">
                    <option th:each="t:${types}" th:value="${t.id}" th:text="${t.name}"
th:selected="${t.id} == *{typeId}" ></option>
                </select>
            </div>
        </div>
        <div class="form-group">
            <label for="title" class="col-sm-2 control-label" >标题</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="title" id="title" th:value="*
{title}" placeholder="标题"/>
            </div>
        </div>
        <div class="form-group">
            <label for="billTime" class="col-sm-2 control-label">日期</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="billTime" id="billTime"
th:value="*{billTime} ? *{#dates.format(billTime, 'yyyy-MM-dd')}" placeholder="日期"
onclick="WdatePicker()"/>
            </div>
        </div>
        <div class="form-group">
            <label for="price" class="col-sm-2 control-label">金额</label>
            <div class="col-sm-10">
                <input type="text" class="form-control" name="price" id="price" th:value="*
{price}" placeholder="金额"/>
            </div>
        </div>
        <div class="form-group">
            <label for="explain" class="col-sm-2 control-label">说明</label>
            <div class="col-sm-10">

```



```

    }else if(source.matches("^\\d{4}-\\d{1,2}-\\d{1,2} {1}\\d{1,2}:\\d{1,2}$")){
        return parseDate(source, formarts.get(2));
    }else if(source.matches("^\\d{4}-\\d{1,2}-\\d{1,2} {1}\\d{1,2}:\\d{1,2}:\\d{1,2}$")){
        return parseDate(source, formarts.get(3));
    }else {
        throw new IllegalArgumentException("Invalid boolean value '" + source + "'");
    }
}

/**
 * 格式化日期
 * @param dateStr String 字符型日期
 * @param format String 格式
 * @return Date 日期
 */
public Date parseDate(String dateStr, String format) {
    Date date=null;
    try {
        DateFormat dateFormat = new SimpleDateFormat(format);
        date = dateFormat.parse(dateStr);
    } catch (Exception e) {

    }
    return date;
}
}

```

## 删除

```
<a th:href="/bill/delete/{id}">删除</a>
```

## 分页

引入pageHelper分页插件的starter, **注意：必须引入pagehelper的启动器，不能直接引入pagehelper**

```

<!-- 分页插件-->
<dependency>
    <groupId>com.github.pagehelper</groupId>
    <artifactId>pagehelper-spring-boot-starter</artifactId>
    <version>1.2.3</version>
</dependency>

```

## 分页方法的测试

```

@Test
public void findPage() {
    Bill b = new Bill();
    b.setTitle("a");
}

```

```

        PageInfo<Bill> page = PageHelper.startPage(2, 10).doSelectPageInfo(() -> {
            billService.list(b);
        });

        page.getList().forEach(bill -> {
            System.out.println(bill.getId() + " " + bill.getTitle());
        });

        System.out.println("总行数=" + page.getTotal());
        System.out.println("当前页=" + page.getPageNum());
        System.out.println("每页行数=" + page.getPageSize());
        System.out.println("总页数=" + page.getPages());
        System.out.println("起始行数=" + page.getStartRow());

        System.out.println("是第一页=" + page.isIsFirstPage());
        System.out.println("是最后页=" + page.isIsLastPage());

        System.out.println("还有下一页=" + page.isHasNextPage());
        System.out.println("还有上一页=" + page.isHasPreviousPage());
        System.out.println("页码列表" + Arrays.toString(page.getNavigatepageNums()));

    }

```

#### service中的分页方法

```

public PageInfo<Bill> listPage(Bill b, int pageNum, int pageSize) {
    return PageHelper.startPage(pageNum, pageSize).doSelectPageInfo(() -> {
        billMapper.select(b);
    });
}

```

#### controller中的方法

```

/**
 * 查询
 * @param b
 * @param model
 * @return
 */
@RequestMapping("/list-page")
public String listPage(
    @RequestParam(defaultValue = "1") int pageNum,
    @RequestParam(defaultValue = "10") int pageSize,
    Bill b,
    Model model) {

    List<BillType> types = typeService.list();
    model.addAttribute("types", types);
}

```



```

PageInfo<Bill> pageInfo = billService.listPage(b, pageNum, pageSize);
model.addAttribute("page", pageInfo);

model.addAttribute("bill", b);

return "/bill/list-page";
}

```

## 前端分页

### 页面部分分页逻辑示意图

→ 1: 表中存在pageNum(当前页), pageSize (每页行数)隐藏对象.

类型  开始时间  结束时间

#	标题	时间	金额	类别	说明	操作
	交通费	2017-06-26	1.23	收入	a	<a href="#">修改</a>
	饭补	2017-06-27	2.23	收入	b	<a href="#">修改</a>
	出差费	2017-06-28	33.0	支出	c	<a href="#">修改</a>
	奖金	2017-06-29	44.0			
1		2018-10-18	1.0			
	采购办公用品2222		666			
	as					
	f					
	asdf					
	as					

3: 点击页码, 直接跳转到页码对应的页

4: 跳转到第一页, 第一页和上一页不可用  
跳转到最后一页, 下一页和最后一页不可用

2: 上一页: pageNum-1  
下一页: pageNum+1  
第一页: pageNum=1  
最后一页: pageNum= pageCount

```

* 分页查询
* @param b 封装查询条件
* @param pageNum 当前页
* @param pageSize 每页行数
* @param model
* @return
*/
@RequestMapping("/list-page")
public String listPage(
    Bill b,
    @RequestParam(defaultValue = "1") int pageNum,
    @RequestParam(defaultValue = "10") int pageSize,
    Model model) {

```

第一页 上一页 1 2 3 4 5 6 7 8 下一页 最后一页

```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8"/>
    <title>userList</title>
    <link rel="stylesheet" th:href="@{/css/bootstrap.css}"></link>
    <script type="text/javascript" th:src="@{/js/My97DatePicker/WdatePicker.js}"></script>
    <script type="text/javascript" th:src="@{/js/jquery/jquery-1.10.2.min.js}"></script>
</head>
<body class="container">
<br/>
<h1>账单列表</h1>
<br/><br/>
<div class="with:80%">
    <form class="form-inline" id="qf" th:action="@{/bill/list-page}" method="post">
        <input type="hidden" name="pageNum" id="pageNum" th:value="${page.pageNum}" />
        <input type="hidden" name="pageSize" id="pageSize" th:value="${page.pageSize}" />

        <div class="form-group">

            <label for="typeId" class="control-label">类型</label>

```

```

        <select name="typeId" id="typeId" class="form-control">
            <option value="">全部</option>
            <option th:each="t:${types}" th:value="${t.id}" th:text="${t.name}"
th:selected="(${bill.typeId} == ${t.id})" ></option>
        </select>
    </div>
    <div class="form-group">
        <label for="date1" class="control-label">开始时间</label>
        <input type="text" class="form-control" name="date1" id="date1" placeholder="开始时间" th:value="${bill.date1} ? ${#dates.format(bill.date1, 'yyyy-MM-dd')}"
onclick="WdatePicker()"/>
    </div>
    <div class="form-group">
        <label for="date2" class="control-label">结束时间</label>
        <input type="text" class="form-control" name="date2" id="date2" placeholder="结束时间" th:value="${bill.date2} ? ${#dates.format(bill.date2, 'yyyy-MM-dd')}"
onclick="WdatePicker()"/>
    </div>
    <div class="form-group">
        <input type="submit" value="查询" class="btn btn-info" />
        &nbsp; &nbsp;
        <input type="reset" value="重置" class="btn btn-info" />
        &nbsp; &nbsp;
        <a href="/bill/toAdd" th:href="@{/bill/toAdd}" class="btn btn-info">添加</a>
    </div>
</form>
</div>
<br/>

<div class="with:80%">
    <table class="table table-striped table-bordered">
        <thead>
            <tr>
                <th>#</th>
                <th>标题</th>
                <th>时间</th>
                <th>金额</th>
                <th>类别</th>
                <th>说明</th>
                <th>操作</th>
            </tr>
        </thead>
        <tbody>
            <tr th:each="b, bstatus : ${page.list}" th:style="${bstatus.odd} ? 'background-color:
#A3C6C8'">
                <th scope="row" th:text="${bill.id}">id</th>
                <td th:text="${b.title}">name</td>
                <td th:text="${b.billTime} ? ${#dates.format(b.billTime, 'yyyy-MM-dd')}">time</td>
                <td th:text="${b.price}">price</td>
                <td th:text="${b.typeName}">typeName</td>
                <td th:text="${b.explain}">explain</td>

                <td>

```

```

        <a th:href="/bill/toUpdate/${b.id}|">修改</a>
        <a th:href="/bill/download/${b.id}|">下载</a>
    </td>
</tr>
</tbody>
</table>
</div>

<ul class="pagination">
    <li><button class="btn btn-default" id="first">第一页</button></li>
    <li><button class="btn btn-default" id="prev">上一页</button></li>
    <li th:each="p:${page.navigatepageNums}">
        <button class="btn btn-default" name="pn" th:text="${p}" th:disabled="(${p} ==
${page.pageNum})"></button>
    </li>
    <li><button class="btn btn-default" id="next">下一页</button></li>
    <li><button class="btn btn-default" id="last">最后一页</button></li>
</ul>

<script th:inline="javascript">
    /**/
    $(function(){
        //初始化变量
        var pageNum = [[${page.pageNum}]]; //当前页
        var pageCount = [[${page.pages}]]; //最后页
        var hasNextPage = [[${page.hasNextPage}]]; //还有下一页
        var hasPreviousPage = [[${page.hasPreviousPage}]]; //还有上一页

        $("#next").click(function(){
            $("#pageNum").val(pageNum + 1);
            $("#qf").submit();
        });

        $("#prev").click(function(){
            $("#pageNum").val(pageNum - 1);
            $("#qf").submit();
        });

        $("#first").click(function(){
            $("#pageNum").val(1);
            $("#qf").submit();
        });

        $("#last").click(function(){
            $("#pageNum").val(pageCount);
            $("#qf").submit();
        });

        //没有上一页
        if (!hasPreviousPage) {
            $("#prev").prop("disabled", true);
            $("#first").prop("disabled", true);
        }
    });
</pre>
</div>
```

```
//没有下一页
if (!hasNextPage) {
    $("#next").prop("disabled", true);
    $("#last").prop("disabled", true);
};

$("button[name='pn']").click(function(){
    $("#pageNum").val($(this).html());
    $("#qf").submit();
});

});
/*]]>*/
</script>

</body>
</html>
```

# 旅游网站后台管理

## 项目简介

旅游网站后台管理,包括如下

用户

姓名 邮箱 查询 添加

<input type="checkbox"/>	编号	姓名	性别	出生日期	电话	邮箱	操作
<input type="checkbox"/>	1	马龙12	女	2019-06-19	010-1234567	malong@163.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	2	刘国梁	男	1977-10-26	13234342434	liuguoliang@qq.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	3	张继科	男	2019-08-16	12345678909	zjk@qq.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	5	樊振东	男	2019-08-07	13234342434	fzd@qq.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	38	张三丰	男	2019-08-20	13234342434	zsf@163.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	39	张无忌	男	2019-07-31	13234342434	zwj@163.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	40	令狐冲	男	2019-08-15	13234342434	lhc@qq.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	41	刘备	男	2019-08-24	13234342434	lb@qq.com	<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	44	b4	男	2019-09-30	010-1234234		<span>✎</span> <span>🗑</span>
<input type="checkbox"/>	51	asd					<span>✎</span> <span>🗑</span>

旅游线路

线路名称		线路介绍		所属分类：	全部	▼	旅游公司：	全部	▼	查询	添加
<input type="checkbox"/>	编号	线路名称		所属分类			旅游公司			价格	操作
<input type="checkbox"/>	1	【旅展 半价特惠 重走丝路·漫游宁夏 双飞4天】银川西部影视...		国内游			开课吧旅行社			999.0	  
<input type="checkbox"/>	2	【官网专享 立减¥500 张家界天门山+大峡谷+凤凰古城+玻...		国内游			开课吧旅行社			1799.0	  
<input type="checkbox"/>	3	【官网专享 5折预售 越南下龙湾+河内+芒街 高铁4天 高级...		国内游			开课吧旅行社			1199.0	  
<input type="checkbox"/>	4	【官网专享 送箱 ¥1099秒杀 华东五市+乌镇+南浔 双飞...		国内游			开课吧旅行社			1099.0	  
<input type="checkbox"/>	5	梅州 双飞3天2晚 自由行套票【含广州直飞梅州早对晚含税往返...		国内游			开课吧旅行社			999.0	  
<input type="checkbox"/>	6	【宁夏银川 双飞4天】银川中华回乡文化园 中卫沙坡头 宁夏...		国内游			开课吧旅行社			1299.0	  
<input type="checkbox"/>	7	【¥1099秒杀 约惠华东五市+乌镇+木渎+灵山大佛 双飞6...		国内游			开课吧旅行社			1099.0	  
<input type="checkbox"/>	8	【¥1099秒杀 特惠华东五市+乌镇+木渎+灵山大佛 双飞6...		国内游			开课吧旅行社			1099.0	  
<input type="checkbox"/>	9	【豪叹喜来登 桂林 阳朔西街高铁4天纯玩 高级团】漓江 西山...		国内游			开课吧旅行社			1299.0	  
<input type="checkbox"/>	10	【春节 湖南郴州莽山+东江湖+冰雪森林温泉 高铁3天 顶贵宾...		国内游			开课吧旅行社			2399.0	  

线路名称：

【立减¥200 桃花季包列 西藏拉萨+林芝桃花季双卧10天】青藏铁路景观带 布达拉宫 东方瑞士鲁朗 嘎拉桃花村

线路介绍：

【包列进藏】乘坐世界最先进的青藏列车，观世界坐标级景观带，有氧车厢进入西藏，由低海拔至高海拔逐步适应，安全保障。畅享拉林高等级公路沿途“颜值担当”雪域江南风光！

所属分类：

全球自由行 ▼

旅游公司：

开课吧旅行社 ▼

单价：

4399.0

缩略图：

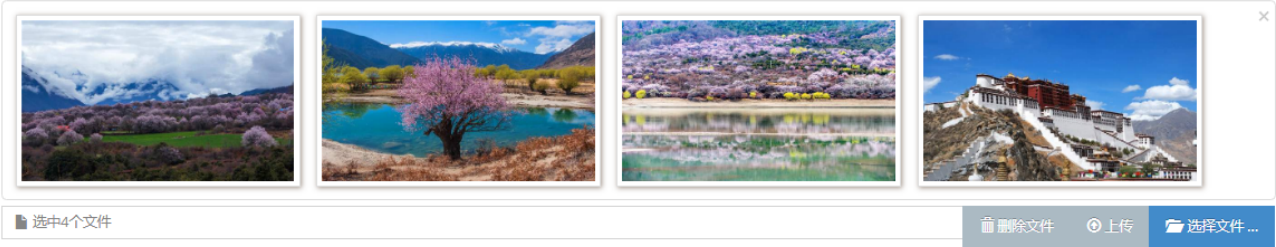


选中1个文件

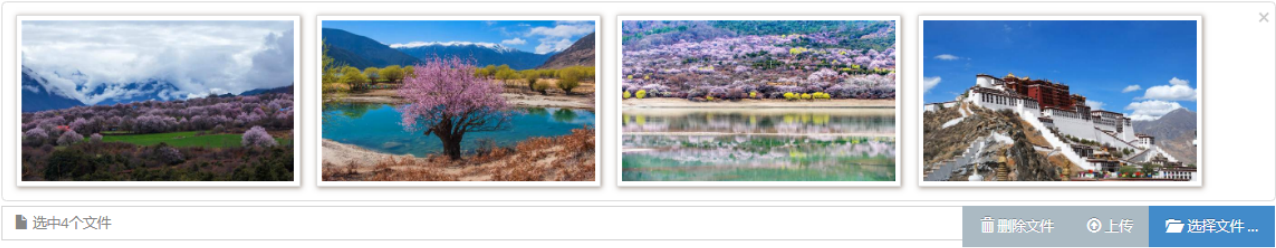
删除文件 上传 选择文件 ...

线路图片

详细大图：



详细小图：



提交 重置 返回

线路分类

添加

<input type="checkbox"/>	编号	名称	操作
<input type="checkbox"/>	8	全球自由行	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	4	出境游	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	5	国内游	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	7	抱团定制	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	6	港澳游	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	9	爬山	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	2	酒店	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	1	门票	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	3	香港车票	<input type="button" value="编辑"/> <input type="button" value="删除"/>

旅行社

首页 > 用户 > 用户管理

商家名称  商家地址

<input type="checkbox"/>	编号	商家名称	商家电话	商家地址	操作
<input type="checkbox"/>	1	开课吧旅行社	12345678901	开课吧新职课	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	2	中国国家旅游公司	1234324234	北京大兴西红门	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	3	云南大理运行社	1234234234	云南大理	<input type="button" value="编辑"/> <input type="button" value="删除"/>
<input type="checkbox"/>	4	拉萨旅游公司	1234234234	拉萨	<input type="button" value="编辑"/> <input type="button" value="删除"/>

首页 上一页 1 下一页 末页 共条 4 记录，共1页， 每页行数 10 ▼

后台技术

springboot、mybatis、mybatis plus

前台

bootstrap、jquery、thymeleaf、fileinput插件

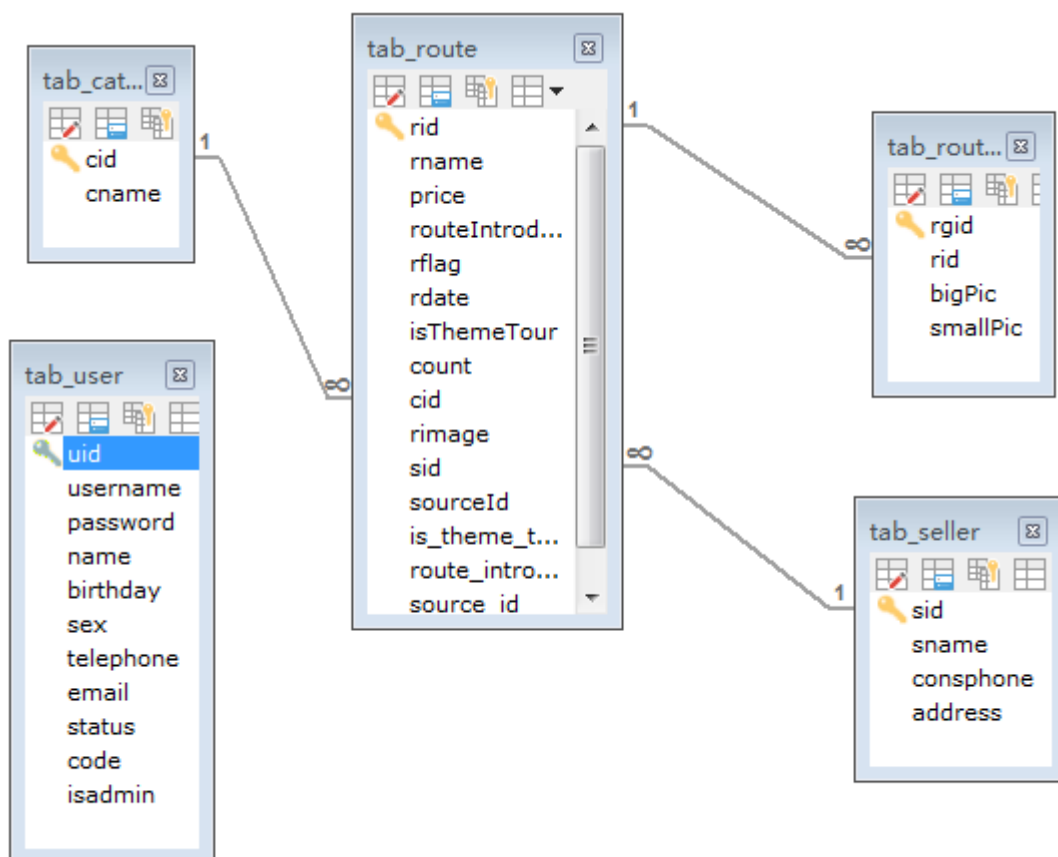
数据库

mysql

数据库设计

从素材中直接引入数据库脚本即可

表结构



)

## 创建项目

依赖

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>cn.lxs</groupId>
  <artifactId>travel-springboot-mp</artifactId>
  <version>1.0-SNAPSHOT</version>

  <parent>

    <groupId>org.springframework.boot</groupId>
```

```

    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.3.0.RELEASE</version>
    <relativePath/> <!-- 依赖spring-boot-starter-parent构件时，从本地仓库-> 远程仓库获取,不从本地目录获取 -->
  </parent>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
    <java.version>1.8</java.version>
  </properties>

  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-jdbc</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>
    <!--mybatis plus-->
    <dependency>
      <groupId>com.baomidou</groupId>
      <artifactId>mybatis-plus-boot-starter</artifactId>
      <version>3.3.2</version>
    </dependency>

    <dependency>
      <groupId>com.github.pagehelper</groupId>
      <artifactId>pagehelper</artifactId>
      <version>5.1.11</version>
    </dependency>

    <dependency>
      <groupId>org.projectlombok</groupId>
      <artifactId>lombok</artifactId>
      <scope>provided</scope>
    </dependency>

    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <version>5.1.46</version>
    </dependency>

    <!--fileupload-->

```



```

        <dependency>
            <groupId>commons-fileupload</groupId>
            <artifactId>commons-fileupload</artifactId>
            <version>1.3.3</version>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>

    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>

```

## 启动器

```

@SpringBootApplication
public class TravelApplication {

    public static void main(String[] args) {

        SpringApplication.run(TravelApplication.class, args);
    }
}

```

## application.yml

具体语法参考YAML快速入门.html

```

server:
  port: 80
  servlet:
    context-path: / #项目的上下文路径
spring:
  datasource:
    url: jdbc:mysql://localhost:3306/travel
    username: root
    password: root
    driver-class-name: com.mysql.jdbc.Driver
    hikari:

```

```

        idle-timeout: 60000
        maximum-pool-size: 30
        minimum-idle: 10
    thymeleaf:
        cache: false
# mybatis plus配置
mybatis-plus:
    mapper-locations: classpath:/mybatis/*.xml #加载映射文件
    type-aliases-package: com.lxs.travel.domain #别名搜索的包
    configuration:
        lazy-loading-enabled: true #打开懒加载
        aggressive-lazy-loading: false #关闭积极懒加载

```

## 整合mybatis plus

```

@Configuration
@MapperScan("com.lxs.travel.dao")
public class MybatisPlusConfig {

    @Bean
    public PageInterceptor pageInterceptor() {
        return new PageInterceptor();
    }

}

```

# 用户管理

## 实体类

Lombok能以简单的注解形式来简化java代码，提高开发人员的开发效率

使用lombok简化实体类开发，具体lombok语法和安装参考资料[lombok入门.html文档](#)

```

@Data
@TableName("tab_user")
public class User implements Serializable {

    @TableId(type = IdType.AUTO)
    private Integer uid;
    private String username;
    private String password;
    private String name;
    private Date birthday;
    private String sex;
    private String telephone;
    private String email;
    private String status;
    private String code;
    private Boolean isadmin;
}

```

dao

接口

```
public interface UserDao extends BaseMapper<User> {  
  
}
```

注意：这里使用mybatis plus内置方法，没有映射文件

service

接口

```
public interface UserService {  
  
    /**  
     * 分页查询  
     * @param condition 查询条件  
     * @return  
     */  
    public PageInfo<User> findPage(User condition, int pageNum, int pageSize);  
  
    /**  
     * 查询  
     * @param condition 查询条件  
     * @return  
     */  
    public List<User> find(User condition);  
  
    /**  
     * 添加  
     * @param user  
     * @return  
     */  
    public int add(User user);  
  
    /**  
     * 根据ID查询用户  
     * @param id  
     * @return  
     */  
    public User findById(Integer id);  
  
    /**  
     * 修改  
     * @param user  
     * @return  
     */  
    public int update(User user);  
  
    /**  
     * 删除
```

```
    * @param id
    * @return
    */
    public int delete(Integer id);
}
```

## 实现类

```
@Service
public class UserServiceImpl implements UserService {

    @Autowired
    private UserDao userDao;

    @Override
    public PageInfo<User> findPage(User condition, int pageNum, int pageSize) {
        return PageHelper.startPage(pageNum, pageSize).doSelectPageInfo(() -> {
            userDao.selectList(Wrappers.<User>query());
        });
    }

    @Override
    public List<User> find(User condition) {
        return userDao.selectList(Wrappers.query());
    }

    @Override
    public int add(User user) {
        return userDao.insert(user);
    }

    @Override
    public User findById(Integer id) {
        return userDao.selectById(id);
    }

    @Override
    public int update(User user) {
        return userDao.updateById(user);
    }

    @Override
    public int delete(Integer id) {
        return userDao.deleteById(id);
    }
}
```

注意：分页方法采用的lambda表达式的写法

测试

```

@RunWith(SpringRunner.class)
@SpringBootTest
public class UserServiceImplTest {

    @Autowired
    private UserService userService;

    @Test
    public void testFindPage() {
        User u = new User();
        PageInfo<User> page = userService.findPage(u, 1, 10);
        page.getList().forEach(System.out :: println);

        System.out.println("总行数=" + page.getTotal());
        System.out.println("当前页=" + page.getPageNum());
        System.out.println("每页行数=" + page.getPageSize());
        System.out.println("总页数=" + page.getPages());
        System.out.println("起始行数=" + page.getStartRow());

        System.out.println("是第一页=" + page.isIsFirstPage());
        System.out.println("是最后页=" + page.isIsLastPage());

        System.out.println("还有下一页=" + page.isHasNextPage());
        System.out.println("还有上一页=" + page.isHasPreviousPage());
        System.out.println("页码列表" + Arrays.toString(page.getNavigatepageNums()));

    }

}

```

## controller

```

@Controller
@RequestMapping("/admin/user")
public class UserController {

    @Autowired
    private UserService userService;

    /**
     * 分页查询
     * @param user 请求参数
     * @param pageNum 当前页
     * @param pageSize 每页行数
     * @param model
     * @return
     */
    @RequestMapping("/page")
    public String page(
        User user,
        @RequestParam(defaultValue = "1") Integer pageNum,
        @RequestParam(defaultValue = "10") Integer pageSize,

```

```

        Model model) {
        PageInfo<User> page = userService.findPage(user, pageNum, pageSize);
        model.addAttribute("page", page);

        return "/user/list";
    }

    /**
     * 跳到添加页面
     * @return
     */
    @RequestMapping("/toadd")
    public String toAdd() {
        return "/user/add";
    }

    /**
     * 添加
     * @param user
     * @return
     */
    @RequestMapping("/doadd")
    public String doAdd(User user) {
        userService.add(user);
        return "redirect:/admin/user/page";
    }

    /**
     * 跳到修改页面
     * @param id
     * @param model
     * @return
     */
    @RequestMapping("/touupdate/{id}")
    public String toUpdate(@PathVariable("id") Integer id, Model model) {
        User user = userService.findById(id);
        model.addAttribute("user", user);
        return "/user/update";
    }

    @RequestMapping("/douupdate")
    public String doUpdate(User user) {
        userService.update(user);
        return "redirect:/admin/user/page";
    }

    /**
     * 删除
     * @param id
     * @return
     */
    @RequestMapping("/delete/{id}")
    public String delete(@PathVariable("id") Integer id) {

```

```

        userService.delete(id);
        return "redirect:/admin/user/page";
    }
}

```

## 页面

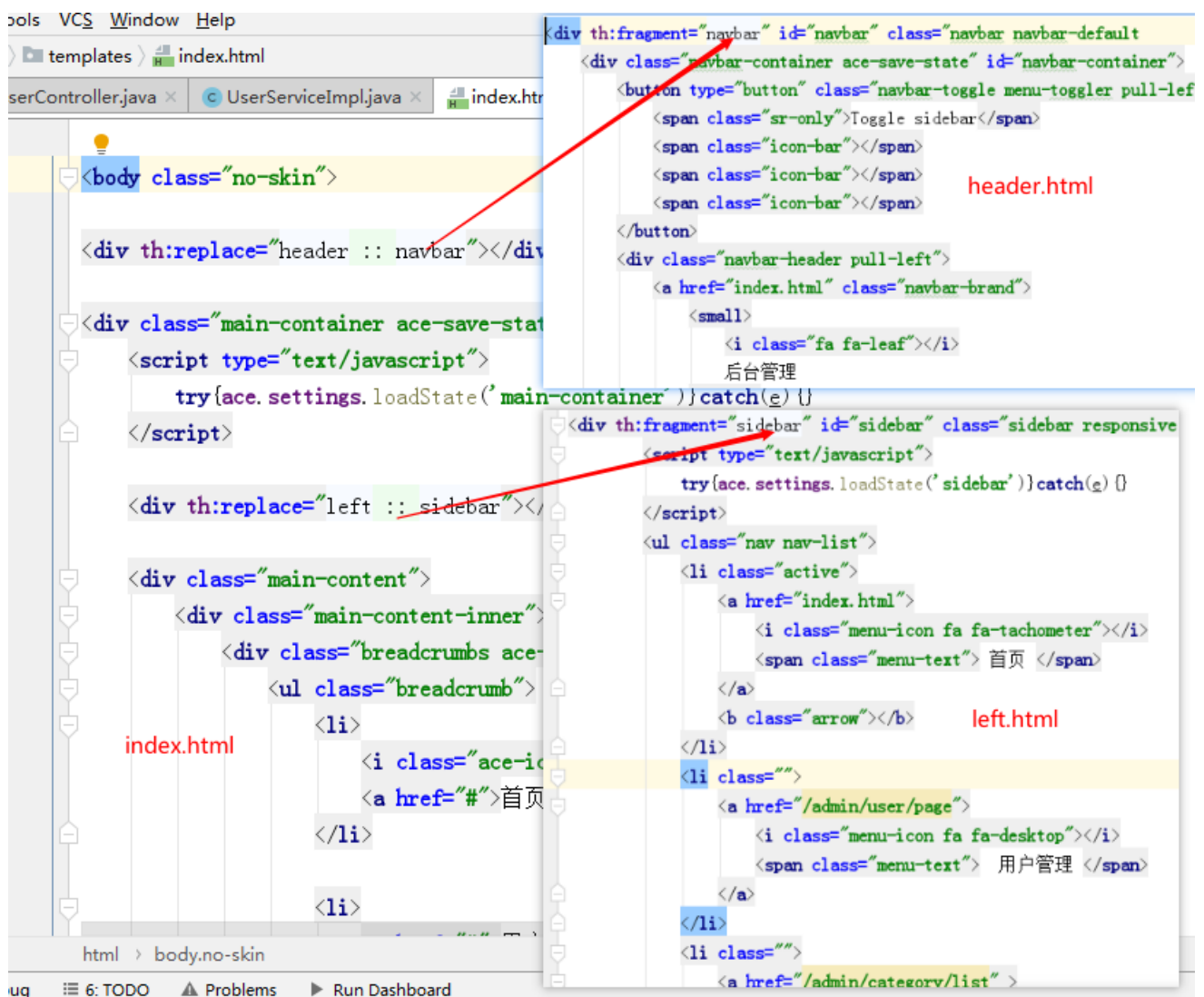
前端技术栈 bootstrap, jquery, ace, fileinput插件

拷贝资料中的static目录, 里面有bootstrap, jquery, ace, fileinput前端框架

index.html、header.html、left.html(拷贝)

springboot 项目访问[http://localhost/context\\_path](http://localhost/context_path)回自动跳转到templates/index.html

这里我们直接拷贝index.html,header.html,和left.html



## list.html

页面涉及到ace和bootstrap模板部分代码拷贝, 代码中thyleaf指令和脚本部分自己写

```

<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">

```

```
<head>
  <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1"/>
  <meta charset="utf-8"/>
  <title>用户管理</title>

  <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0"/>

  <!-- bootstrap & fontawesome -->
  <link rel="stylesheet" href="/assets/css/bootstrap.min.css"/>
  <link rel="stylesheet" href="/assets/font-awesome/4.5.0/css/font-awesome.min.css"/>

  <!-- page specific plugin styles -->

  <!-- text fonts -->
  <link rel="stylesheet" href="/assets/css/fonts.googleapis.com.css"/>

  <!-- ace styles -->
  <link rel="stylesheet" href="/assets/css/ace.min.css" class="ace-main-stylesheet" id="main-
ace-style"/>

  <!--[if lte IE 9]>
  <link rel="stylesheet" href="/assets/css/ace-part2.min.css" class="ace-main-stylesheet"/>
  <![endif]-->
  <link rel="stylesheet" href="/assets/css/ace-skins.min.css"/>
  <link rel="stylesheet" href="/assets/css/ace-rtl.min.css"/>

  <!--[if lte IE 9]>
  <link rel="stylesheet" href="/assets/css/ace-ie.min.css"/>
  <![endif]-->

  <!-- inline styles related to this page -->

  <!-- ace settings handler -->
  <script src="/assets/js/ace-extra.min.js"></script>

  <!-- HTML5shiv and Respond.js for IE8 to support HTML5 elements and media queries -->

  <!--[if lte IE 8]>
  <script src="/assets/js/html5shiv.min.js"></script>
  <script src="/assets/js/respond.min.js"></script>
  <![endif]-->

  <!--[if !IE]> -->
  <script src="/assets/js/jquery-2.1.4.min.js"></script>

  <!-- <![endif]-->

  <!--[if IE]>
  <script src="/assets/js/jquery-1.11.3.min.js"></script>
  <![endif]-->
  <script src="/assets/js/bootstrap.min.js"></script>

  <!-- page specific plugin scripts -->
```



```

<script src="/assets/js/jquery.dataTables.min.js"></script>
<script src="/assets/js/jquery.dataTables.bootstrap.min.js"></script>
<script src="/assets/js/dataTables.buttons.min.js"></script>
<script src="/assets/js/buttons.flash.min.js"></script>
<script src="/assets/js/buttons.html5.min.js"></script>
<script src="/assets/js/buttons.print.min.js"></script>
<script src="/assets/js/buttons.colVis.min.js"></script>
<script src="/assets/js/dataTables.select.min.js"></script>

<!-- ace scripts -->
<script src="/assets/js/ace-elements.min.js"></script>
<script src="/assets/js/ace.min.js"></script>

<script>
$(function(){
    $("#checkAll").click(function() {
        $(":checkbox[name='ids']").prop("checked", $(this).prop("checked"));
    });
    $("#btnDelete").click(function(){
        if ($(":checked[name='ids']").length > 0) {
            $("#df").submit();
        } else {
            alert('请选择要删除的记录')
        }
    });
});
</script>

</head>

<body class="no-skin">

<div th:replace="header :: navbar"></div>

<div class="main-container ace-save-state" id="main-container">
    <script type="text/javascript">
        try {
            ace.settings.loadState('main-container')
        } catch (e) {
        }
    </script>

    <div th:replace="left :: sidebar"></div>

    <div class="main-content">
        <div class="main-content-inner">
            <div class="breadcrumbs ace-save-state" id="breadcrumbs">
                <ul class="breadcrumb">
                    <li>
                        <i class="ace-icon fa fa-home home-icon"></i>
                        <a href="#">首页</a>
                    </li>
                    <li>

```

```

        <a href="#">用户</a>
    </li>
    <li class="active">用户管理</li>
</ul><!-- /.breadcrumb -->

</div>

<div class="page-content">

    <div style="float: left; padding: 10px;">
        <form class="form-inline" id="qf" action="/admin/user/page" method="post">
            <input type="hidden" name="pageNum" id="pageNum"
th:value="${page.pageNum}">
            <input type="hidden" name="pageSize" id="pageSize"
th:value="${page.pageSize}">

            <div class="form-group">
                <label for="name">姓名</label>
                <input type="text" name="name" class="form-control" id="name"
th:value="${param.name}">
            </div>

            <div class="form-group">
                <label for="email">邮箱</label>
                <input type="text" name="email" class="form-control" id="email"
th:value="${param.email}">
            </div>
            <button type="submit" class="btn btn-sm btn-default">查询</button>
            <button type="button" class="btn btn-sm btn-default"
                onclick="location.href='/admin/user/toadd'">添加
            </button>
            <button type="button" class="btn btn-sm btn-default" id="btnDelete">删除
</button>

        </form>
    </div>

    <form action="/admin/user/delete" method="post" id="df">
    <table id="simple-table" class="table table-bordered table-hover">
        <thead>
            <tr>
                <th><input type="checkbox" id="checkAll"></th>
                <th>姓名</th>
                <th>性别</th>
                <th>出生日期</th>
                <th>电话</th>
                <th>邮箱</th>
                <th>操作</th>
            </tr>
        </thead>
        <tbody>

            <tr th:each="u, status : ${page.list}" th:style="${status.even} ?
'background-color: grey'">

```

```

<td><input type="checkbox" name="ids" th:value="${u.uid}"></td>
<td th:text="${u.name}"></td>
<td th:text="${u.sex}"></td>
<td th:text="${#dates.format(u.birthday, 'yyyy-MM-dd')}"></td>
<td th:text="${u.telephone}"></td>
<td th:text="${u.email}"></td>
<td>
    <div class="hidden-sm hidden-xs btn-group">
        <a class="btn btn-xs btn-info"
            th:href="|/admin/user/toupdate/${u.uid}|" >
            <i class="ace-icon fa fa-pencil bigger-120"></i>
        </a>

        <a class="btn btn-xs btn-info"
            th:href="|/admin/user/delete/${u.uid}|" >
            <i class="ace-icon fa fa-trash-o bigger-120"></i>
        </a>
    </div>
</td>
</tr>

</tbody>
</table>
</form>

<div>
    <nav aria-label="Page navigation">
        <ul class="pagination">
            <li id="first">
                <a href="javascript:void(0);">
                    <span aria-hidden="true">首页</span>
                </a>
            </li>
            <li id="prev">
                <a href="javascript:void(0);" aria-label="Previous">
                    <span aria-hidden="true">上一页</span>
                </a>
            </li>
            <li name="pageNum" th:each="i : ${page.navigatepageNums}"
th:class="${i == page.pageNum} ? 'active'">
                <a href="javascript:void(0);" th:text="${i}"></a>
            </li>

            <li id="next">
                <a href="javascript:void(0);" aria-label="Next">
                    <span aria-hidden="true">下一页</span>
                </a>
            </li>

            <li id="last">
                <a href="javascript:void(0);">
                    <span aria-hidden="true">末页</span>
                </a>
            </li>
        </ul>
    </nav>
</div>

```

```

        </li>

        <span style="font-size: 20px;margin-left: 5px;"
              th:text="|共条 ${page.total} 记录, 共${page.pages}页, 每页
${page.pageSize}行数|">

                </span>
        <select id="setRows">
                <option value="5" th:selected="${5 == page.pageSize}">5</option>
                <option value="10" th:selected="${10 == page.pageSize}"
>10</option>

                <option value="20" th:selected="${20 == page.pageSize}"
>20</option>

                <option value="30" th:selected="${30 == page.pageSize}"
>30</option>

        </select>

    </ul>
</nav>
</div>

    <script th:inline="javascript">
//得到初始化变量
var pageNum = [[${page.pageNum}]]; //当前页
var pages = [[${page.pages}]]; //总页数
var hasNextPage = [[${page.hasNextPage}]]; //true: 还有下一页
var hasPreviousPage = [[${page.hasPreviousPage}]]; //还有上一页

//判断按钮状态
if (!hasPreviousPage) {
    $("#prev").addClass("disabled");
    $("#first").addClass("disabled");
}
if (!hasNextPage) {
    $("#next").addClass("disabled");
    $("#last").addClass("disabled");
}

//设置按钮的监听事件
$("#first").click(function() {
    if (!$("#first").hasClass("disabled")) {
        $("#pageNum").val(1);
        $("#qf").submit();
    }
});
$("#prev").click(function() {
    if (!$("#prev").hasClass("disabled")) {
        $("#pageNum").val(pageNum - 1);
        $("#qf").submit();
    }
});
$("#next").click(function() {
    if (!$("#next").hasClass("disabled")) {
        $("#pageNum").val(pageNum + 1);
    }
});
    </script>

```

```

        $("#qf").submit();
    }
});
$("#last").click(function() {
    if (!$("#last").hasClass("disabled")) {
        $("#pageNum").val(pages);
        $("#qf").submit();
    }
});

//页码分页
$("li[name='pageNum']").click(function(){
    if (!$("this").hasClass("active")) {
        $("#pageNum").val($("this").children("a").html());
        $("#qf").submit();
    }
});

//设置每页行数
$("#setRows").change(function(){
    $("#pageSize").val($(this).val());
    $("#pageNum").val(1);
    $("#qf").submit();
});

</script>

</div><!-- /.page-content -->
</div>
</div><!-- /.main-content -->

</div><!-- /.main-container -->

</body>
</html>

```

add.html

```

<div class="page-content">

    <form action="/admin/user/doadd" method="post">
        <div class="form-group">
            <label for="name">姓名: </label>
            <input type="text" class="form-control" id="name" name="name" placeholder="请输入姓名">
        </div>

        <div class="form-group">
            <label>性别: </label>
            <input type="radio" name="sex" value="男" checked="checked"/>男
            <input type="radio" name="sex" value="女"/>女
        </div>
    </form>

```

```

        <div class="form-group">
            <label for="birthday">生日: </label>
            <input type="text" class="form-control" id="birthday" name="birthday" placeholder="请
输入生日"
                onClick="WdatePicker({el:this,dateFmt:'yyyy-MM-dd'})">
        </div>

        <div class="form-group">
            <label for="telephone">电话: </label>
            <input type="text" class="form-control" name="telephone" id="telephone"
placeholder="请输入电话"/>
        </div>

        <div class="form-group">
            <label for="email">Email: </label>
            <input type="text" class="form-control" name="email" id="email" placeholder="请输入邮
箱地址"/>
        </div>

        <div class="form-group">
            <label for="username">登录名</label>
            <input type="text" class="form-control" name="username" id="username" placeholder="请
输入登录名"/>
        </div>

        <div class="form-group">
            <label for="password">密码</label>
            <input type="text" class="form-control" name="password" id="password" placeholder="请
输入密码"/>
        </div>

        <div class="form-group" style="text-align: center">
            <input class="btn btn-primary" type="submit" value="提交"/>
            <input class="btn btn-default" type="reset" value="重置"/>
            <input class="btn btn-default" type="button" value="返回"/>
        </div>
    </form>

</div><!-- /.page-content -->

```

update.html

```

<div class="page-content">

    <form action="/admin/user/doupdate" method="post" th:object="${user}">
        <input type="hidden" name="uid" th:value="${user.uid}">
        <div class="form-group">
            <label for="name">姓名: </label>
            <input type="text" class="form-control" id="name" name="name" placeholder="请输入姓名"
th:value="*{name}">
        </div>
    </form>

```

```

<div class="form-group">
  <label>性别: </label>
  <input type="radio" name="sex" value="男" th:checked="'男' == *{sex}" />男
  <input type="radio" name="sex" value="女" th:checked="'女' == *{sex}" />女
</div>

<div class="form-group">
  <label for="birthday">生日: </label>
  <input type="text" class="form-control" id="birthday" name="birthday" placeholder="请输入生日" onClick="WdatePicker({el:this,dateFmt:'yyyy-MM-dd'})" th:value="*{birthday}">
</div>

<div class="form-group">
  <label for="telephone">电话: </label>
  <input type="text" class="form-control" name="telephone" id="telephone" placeholder="请输入电话" th:value="*{telephone}" />
</div>

<div class="form-group">
  <label for="email">Email: </label>
  <input type="text" class="form-control" name="email" id="email" placeholder="请输入邮箱地址" th:value="*{email}" />
</div>

<div class="form-group">
  <label for="username">登录名</label>
  <input type="text" class="form-control" name="username" id="username" placeholder="请输入登录名" th:value="*{username}" />
</div>

<div class="form-group">
  <label for="password">密码</label>
  <input type="text" class="form-control" name="password" id="password" placeholder="请输入密码" th:value="*{password}" />
</div>

<div class="form-group" style="text-align: center">
  <input class="btn btn-primary" type="submit" value="提交" />
  <input class="btn btn-default" type="reset" value="重置" />
  <input class="btn btn-default" type="button" value="返回" />
</div>
</form>

</div><!-- /.page-content -->

```

多选删除

controller

```

/**
 * 批量删除
 * @param ids
 * @return
 */
@RequestMapping("/delete")
public String batchDelete(@RequestParam("ids") Integer[] ids) {
    for (Integer id : ids) {
        userService.delete(id);
    }
    return "redirect:/admin/user/page";
}

```

## 页面

```

<script>
    $(function(){
        $("#checkAll").click(function() {
            $(":checkbox[name='ids']").prop("checked", $(this).prop("checked"));
        });
        $("#btnDelete").click(function(){
            if ($(":checked[name='ids']").length > 0) {
                $("#df").submit();
            } else {
                alert('请选择要删除的记录')
            }
        });
    })
</script>

```

## 注入在springmvc中配置日期转换器

```

@Component
public class DateConverterConfig implements Converter<String, Date> {

    private static final List<String> formarts = new ArrayList<>(4);
    static{
        formarts.add("yyyy-MM");
        formarts.add("yyyy-MM-dd");
        formarts.add("yyyy-MM-dd hh:mm");
        formarts.add("yyyy-MM-dd hh:mm:ss");
    }

    @Override
    public Date convert(String source) {
        String value = source.trim();
        if ("".equals(value)) {
            return null;
        }
        if(source.matches("^\\d{4}-\\d{1,2}$")){

```



```

        return parseDate(source, formarts.get(0));
    }else if(source.matches("^\\d{4}-\\d{1,2}-\\d{1,2}$")){
        return parseDate(source, formarts.get(1));
    }else if(source.matches("^\\d{4}-\\d{1,2}-\\d{1,2} {1}\\d{1,2}:\\d{1,2}$")){
        return parseDate(source, formarts.get(2));
    }else if(source.matches("^\\d{4}-\\d{1,2}-\\d{1,2} {1}\\d{1,2}:\\d{1,2}:\\d{1,2}$")){
        return parseDate(source, formarts.get(3));
    }else {
        throw new IllegalArgumentException("Invalid boolean value '" + source + "'");
    }
}

/**
 * 格式化日期
 * @param dateStr String 字符型日期
 * @param format String 格式
 * @return Date 日期
 */
public Date parseDate(String dateStr, String format) {
    Date date=null;
    try {
        DateFormat dateFormat = new SimpleDateFormat(format);
        date = dateFormat.parse(dateStr);
    } catch (Exception e) {

    }
    return date;
}
}

```

## 旅游公司

参考用户管理CRUD操作，具体代码和用户管理相似

实体类

```

@Data
@TableName("tab_seller")
public class Seller implements Serializable {

    @TableId(type = IdType.AUTO)
    private Integer sid;//商家id
    private String sname;//商家名称
    private String consphone;//商家电话
    private String address;//商家地址

}

```

dao

```
public interface SellerDao extends BaseMapper<Seller> {  
  
}
```

service

接口

```
public interface SellerService {  
  
    /**  
     * 分页查询  
     * @param condition 查询条件  
     * @return  
     */  
    public PageInfo<Seller> findPage(Seller condition, int pageNum, int pageSize);  
  
    /**  
     * 查询  
     * @param condition 查询条件  
     * @return  
     */  
    public List<Seller> find(Seller condition);  
  
    /**  
     * 添加  
     * @param seller  
     * @return  
     */  
    public int add(Seller seller);  
  
    /**  
     * 根据ID查询用户  
     * @param id  
     * @return  
     */  
    public Seller findById(Integer id);  
  
    /**  
     * 修改  
     * @param seller  
     * @return  
     */  
    public int update(Seller seller);  
  
    /**  
     * 删除  
     * @param id  
     * @return  
     */  
    public int delete(Integer id);  
  
}
```

## 实现类

```
@Service
public class SellerServiceImpl implements SellerService {

    @Autowired
    private SellerDao sellerDao;

    @Override
    public PageInfo<Seller> findPage(Seller condition, int pageNum, int pageSize) {
        return PageHelper.startPage(pageNum, pageSize).doSelectPageInfo(() -> {
            sellerDao.selectList(new QueryWrapper<Seller>());
        });
    }

    @Override
    public List<Seller> find(Seller condition) {
        return sellerDao.selectList(Wrappers.query());
    }

    @Override
    public int add(Seller seller) {
        return sellerDao.insert(seller);
    }

    @Override
    public Seller findById(Integer id) {
        return sellerDao.selectById(id);
    }

    @Override
    public int update(Seller seller) {
        return sellerDao.updateById(seller);
    }

    @Override
    public int delete(Integer id) {
        return sellerDao.deleteById(id);
    }
}
```

## controller

```
@Controller
@RequestMapping("/admin/seller/")
public class SellerController {

    @Autowired
    private SellerService sellerService;
```

```

@RequestMapping("/page")
public String page(
    Seller seller,
    @RequestParam(defaultValue = "1") Integer pageNum,
    @RequestParam(defaultValue = "10") Integer pageSize,
    Model model) {
    PageInfo<Seller> page = sellerService.findPage(seller, pageNum, pageSize);
    model.addAttribute("page", page);

    return "seller/list";
}

@RequestMapping("/toadd")
public String toAdd() {
    return "seller/add";
}

@RequestMapping("/doadd")
public String doAdd(Seller seller) {
    sellerService.add(seller);
    return "redirect:/admin/seller/page";
}

@RequestMapping("/toupdate")
public String toUpdate(Integer id, Model model) {
    Seller seller = sellerService.findById(id);
    model.addAttribute("seller", seller);
    return "seller/update";
}

@RequestMapping("/douupdate")
public String doUpdate(Seller seller) {
    sellerService.update(seller);
    return "redirect:/admin/seller/page";
}

@RequestMapping("/delete")
public String delete(Integer id) {
    sellerService.delete(id);
    return "redirect:/admin/seller/page";
}
}

```

## 页面

页面代码和用户crud基本一致，直接从素材拷贝即可

## 线路分类

### 实体类

```

@Data
@TableName("tab_category")
public class Category implements Serializable {

    @TableId(type = IdType.AUTO)
    private Integer cid;//分类id
    private String cname;//分类名称

}

```

dao

```

public interface CategoryDao extends BaseMapper<Category> {

}

```

service

接口

```

public interface CategoryService {

    public List<Category> find();

    /**
     * 添加
     * @param category
     * @return
     */
    public int add(Category category);

    /**
     * 根据ID查询
     * @param id
     * @return
     */
    public Category findById(Integer id);

    /**
     * 修改
     * @param category
     * @return
     */
    public int update(Category category);

    /**
     * 删除
     * @param id
     * @return
     */
    public int delete(Integer id);
}

```

```
}
```

## 实现类

```
@Service
public class CategoryServiceImpl implements CategoryService {

    @Autowired
    private CategoryDao categoryDao;

    @Override
    public List<Category> find() {
        return categoryDao.selectList(Wrappers.query());
    }

    @Override
    public int add(Category category) {
        return categoryDao.insert(category);
    }

    @Override
    public Category findById(Integer id) {
        return categoryDao.selectById(id);
    }

    @Override
    public int update(Category category) {
        return categoryDao.updateById(category);
    }

    @Override
    public int delete(Integer id) {
        return categoryDao.deleteById(id);
    }
}
```

## controller

```
@Controller
@RequestMapping("/admin/category/")
public class CategoryController {

    @Autowired
    private CategoryService categoryService;

    @RequestMapping("/list")
    public String find(Model model) {
        List<Category> list = categoryService.find();
        model.addAttribute("list", list);
        return "category/list";
    }
}
```

```
@RequestMapping("/toadd")
public String toAdd() {
    return "category/add";
}

@RequestMapping("/doadd")
public String doAdd(Category category) {
    categoryService.add(category);
    return "redirect:/admin/category/list";
}

@RequestMapping("/toupdate")
public String toUpdate(Integer id, Model model) {
    Category category = categoryService.findById(id);
    model.addAttribute("category", category);
    return "category/update";
}

@RequestMapping("/doupdate")
public String doUpdate(Category category) {
    categoryService.update(category);
    return "redirect:/admin/category/list";
}

@RequestMapping("delete")
public String delete(Integer id) {
    categoryService.delete(id);
    return "redirect:/admin/category/list";
}
}
```

## 页面

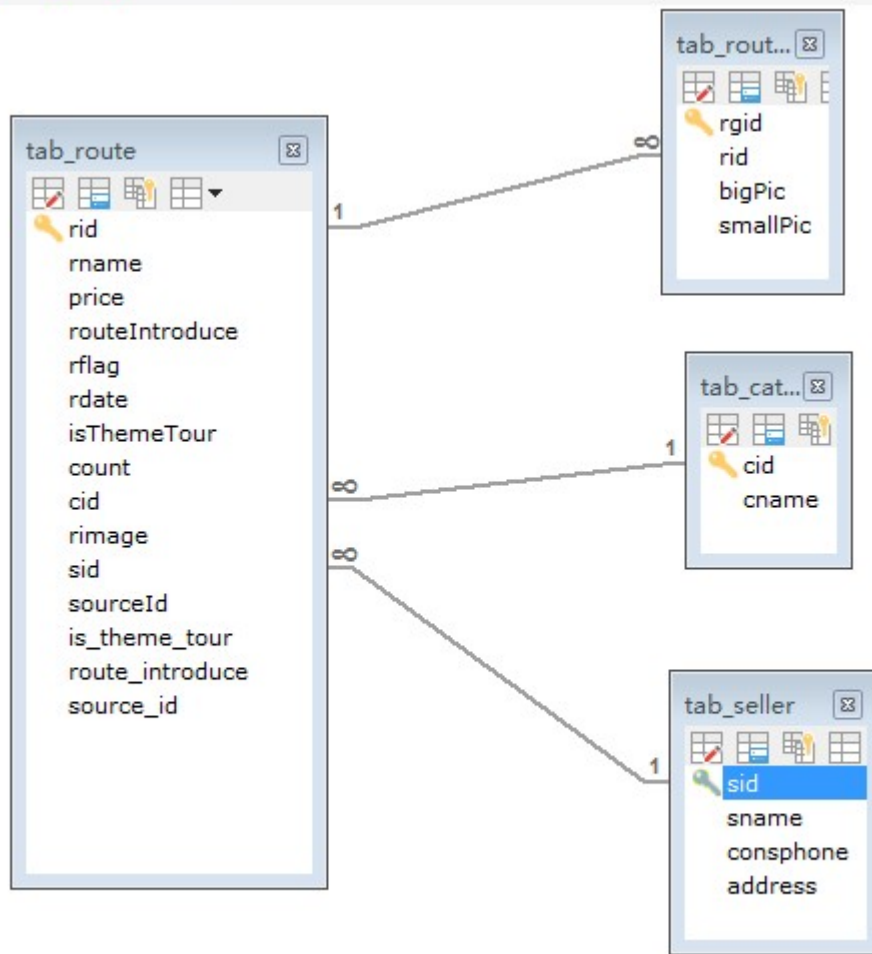
页面代码直接从素材拷贝即可，注意分类因为数据较少，可以不用分页

## 旅游线路

### 需求和表结构

旅游线路主表（线路名称，详情，介绍，价格，缩略图）

旅游线详细图片表(小图，大图)



## 实体类

### 线路实体类

```

@Data
@TableName("tab_route")
public class Route implements Serializable {

    @TableId(type = IdType.AUTO)
    private Integer rid;//线路id, 必输
    private String rname;//线路名称, 必输
    private Double price;//价格, 必输
    private String routeIntroduce;//线路介绍
    private String rflag;    //是否上架, 必输, 0代表没有上架, 1代表是上架
    private String rdate;    //上架时间
    private String isThemeTour;//是否主题旅游, 必输, 0代表不是, 1代表是
    private Integer count;//收藏数量
    private Integer cid;//所属分类, 必输
    private String rimage;//缩略图
    private Integer sid;//所属商家
    private String sourceId;//抓取数据的来源id

    @TableField(exist = false)
    private Category category;//所属分类 使用resultmap的association处理
  
```



```

    @TableField(exist = false)
    private Seller seller;//所属商家 使用resultmap的association处理
    @TableField(exist = false)
    private List<RouteImg> routeImgList;//商品详情图片列表,关联属性, mybatis plus不能查, 需要配置
    resultMap使用resultmap的collection处理
}

```

## 线路的图片列表

```

@Data
@TableName("tab_route_img")
public class RouteImg implements Serializable {

    @TableId(type = IdType.AUTO)
    private int rgid;//商品图片id
    private int rid;//旅游商品id
    private String bigpic;//详情商品大图
    private String smallpic;//详情商品小图
}

```

## dao

## 线路dao

```

public interface RouteDao extends BaseMapper<Route> {

    /**
     * 分页查询
     * @param condition
     * @return
     */
    public List<Route> find(Route condition);

    /**
     * 根据ID查询用户
     * @param id
     * @return
     */
    public Route findById(Integer id);
}

```

## 映射文件

因为线路需要查询线路详细图片列表 `routeImgList` , 线路所属分类 `category` , 线路所属旅行社 `seller` ,这里在xml映射文件中使用resultMap的association和collection查询, 不能使用mybatis plus内置查询

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE mapper
    PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"

```

```

"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="cn.lxs.travel.dao.RouteDao">

    <sql id="selectSql">
        SELECT
            *
        FROM
            tab_route
    </sql>

    <select id="find" resultMap="routeMap">
        <include refid="selectSql"></include>
        <where>
            <if test="cid !=null">
                cid = #{cid}
            </if>
            <if test="sid !=null">
                and sid = #{sid}
            </if>
            <if test="rname !=null and rname.trim() != ''">
                and rname like '%${rname}%'
            </if>
            <if test="routeIntroduce != null and routeIntroduce.trim() != ''">
                and routeIntroduce like '%${routeIntroduce}%'
            </if>
        </where>
    </select>

    <resultMap id="routeMap" type="route">
        <id column="rid" property="rid"></id>
        <association property="category" javaType="category"
select="cn.lxs.travel.dao.CategoryDao.findById" column="cid">
            <id column="cid" property="cid"></id>
        </association>
        <association property="seller" javaType="seller"
select="cn.lxs.travel.dao.SellerDao.findById" column="sid">
            <id column="sid" property="sid"></id>
        </association>
        <collection property="routeImgList" javaType="java.util.List" ofType="RouteImg"
select="cn.lxs.travel.dao.RouteImgDao.findById" column="rid">
            <id column="rgid" property="rgid"></id>
        </collection>
    </resultMap>

    <select id="findById" parameterType="int" resultMap="routeMap">
        <include refid="selectSql"></include>
        where
            rid = #{rid}
    </select>

</mapper>

```

注意：这里因为要查询旅游线路的所属分类（`select="cn.lxs.travel.dao.CategoryDao.findById"`），所属旅行社（`select="cn.lxs.travel.dao.SellerDao.findById"`），线路详细图片列表（`select="cn.lxs.travel.dao.RouteImgDao.findById"`）

所以需要分在CategoryDao中增加findById方法如下

```
public interface CategoryDao extends BaseMapper<Category> {

    @Select("SELECT cname,cid FROM tab_category WHERE cid=#{id}")
    public Category findById(Integer id);

}
```

SellerDao增加findById方法如下：

```
public interface SellerDao extends BaseMapper<Seller> {

    @Select("SELECT * FROM tab_seller WHERE sid=#{id}")
    public Seller findById(Integer id);

}
```

RouteImgDao增加findById方法：如下

```
public interface RouteImgDao extends BaseMapper<RouteImg> {

    @Select("select * from tab_route_img where rid = #{rid}")
    public List<RouteImg> findById(Integer rid);

}
```

## service

线路service：接口

```
public interface RouteService {

    /**
     * 分页查询
     * @param condition 查询条件
     * @return
     */
    public PageInfo<Route> findPage(Route condition, int pageNum, int pageSize);

    /**
     * 添加
     * @param route
     * @return
     */
    public int add(Route route);

}
```

```

/**
 * 根据ID查询用户
 * @param id
 * @return
 */
public Route findById(Integer id);

/**
 * 修改
 * @param route
 * @return
 */
public int update(Route route);

/**
 * 删除
 * @param id
 * @return
 */
public int delete(Integer id);
}

```

## 线路service实现类

```

@Service
public class RouteServiceImpl implements RouteService {

    @Autowired
    private RouteDao routeDao;

    @Override
    public PageInfo<Route> findPage(Route condition, int pageNum, int pageSize) {
        return PageHelper.startPage(pageNum, pageSize).doSelectPageInfo(() -> {
            routeDao.find(condition);
        });
    }

    @Override
    public int add(Route route) {
        return routeDao.insert(route);
    }

    @Override
    public Route findById(Integer id) {
        return routeDao.findById(id);
    }

    @Override
    public int update(Route route) {
        return routeDao.updateById(route);
    }
}

```

```

@Override
public int delete(Integer id) {
    return routeDao.deleteById(id);
}
}

```

## 测试

```

@RunWith(SpringRunner.class)
@SpringBootTest
public class RouteServiceImplTest {

    @Autowired
    private RouteService routeService;

    @Test
    public void findPage() {
        Route condition = new Route();
        condition.setRname("北京");
        PageInfo<Route> page = routeService.findPage(condition, 1, 10);

        page.getList().forEach((r) -> {
            System.out.println(r.getRid() + "\t" + r.getRname() + "\t" +
                r.getCategory().getCname() + "\t" + r.getSeller().getSname() + "\t" +
                r.getRouteImgList().size());
        });
    }

    @Test
    public void findById() {
        Route r = routeService.findById(34);
        System.out.println(r.getRid() + "\t" + r.getRname() + "\t" + r.getCategory().getCname() +
            "\t" + r.getSeller().getSname() + "\t" + r.getRouteImgList().size());
    }
}

```

## controller

```

@Controller
@RequestMapping("/admin/route/")
public class RouteController {

    @Autowired
    private RouteService routeService;
    @Autowired
    private CategoryService categoryService;
    @Autowired
    private SellerService sellerService;

    /**
     * 分页
     * @param route
     */
}

```

```

    * @param pageNum
    * @param pageSize
    * @param model
    * @return
    */
@RequestMapping("/page")
public String page(
    Route route,
    @RequestParam(defaultValue = "1") Integer pageNum,
    @RequestParam(defaultValue = "10") Integer pageSize,
    Model model) {
    PageInfo<Route> page = routeService.findPage(route, pageNum, pageSize);
    model.addAttribute("page", page);

    //查询所有分类生成下拉框
    List<Category> categories = categoryService.find();
    model.addAttribute("categories", categories);
    List<Seller> sellers = sellerService.find(new Seller());
    model.addAttribute("sellers", sellers);

    //用于页面回显
    model.addAttribute("route", route);

    return "route/list";
}

/**
 * 删除
 * @param id
 * @return
 */
@RequestMapping("/delete/{id}")
public String delete(@PathVariable("id") Integer id) {
    routeService.delete(id);
    return "redirect:/admin/route/page";
}

/**
 * 跳到添加页面
 * @param model
 * @return
 */
@RequestMapping("/toadd")
public String toAdd(Model model) {
    //查询所有分类生成下拉框
    List<Category> categories = categoryService.find();
    model.addAttribute("categories", categories);
    List<Seller> sellers = sellerService.find(new Seller());
    model.addAttribute("sellers", sellers);

    return "route/add";
}

```

```

/**
 * 执行添加
 * @param route
 * @param rimageFile
 * @param request
 * @return
 * @throws IOException
 */
@RequestMapping("/doadd")
public String doAdd(Route route, @RequestParam("rimageFile") MultipartFile rimageFile,
HttpServletRequest request) throws IOException {
    routeService.add(route);
    return "redirect:/admin/route/page";
}

/**
 * 根据id查询, 跳转到修改页面
 * @param id
 * @param model
 * @return
 */
@RequestMapping("/touupdate/{id}")
public String toUpdate(@PathVariable Integer id, Model model) {
    //查询所有分类生成下拉框
    List<Category> categories = categoryService.find();
    model.addAttribute("categories", categories);
    List<Seller> sellers = sellerService.find(new Seller());
    model.addAttribute("sellers", sellers);

    Route route = routeService.findById(id);
    model.addAttribute("route", route);

    return "route/update";
}

@RequestMapping("/douupdate")
public String doUpdate(Route route, @RequestParam("rimageFile") MultipartFile rimageFile,
HttpServletRequest request) throws IOException {
    routeService.update(route);
    return "redirect:/admin/route/page";
}
}

```

页面list.html、add.html、update.html

页面部分直接从素材拷贝，里面thymleaf指令和脚本自己写

参考素材代码

主图（缩略图）上传

```
/**
 * 执行添加
 * @param route
 * @param rimageFile
 * @param request
 * @return
 * @throws IOException
 */
@RequestMapping("/doadd")
public String doAdd(Route route, @RequestParam("rimageFile") MultipartFile rimageFile,
HttpServletRequest request) throws IOException {
    //项目的部署目录 + img/product/rimage/
    performRImage(route, rimageFile, request);

    routeService.add(route);
    return "redirect:/admin/route/page";
}

@RequestMapping("/doupdate")
public String doUpdate(Route route, @RequestParam("rimageFile") MultipartFile rimageFile,
HttpServletRequest request) throws IOException {
    performRImage(route, rimageFile, request);

    routeService.update(route);
    return "redirect:/admin/route/page";
}

private void performRImage(Route route, @RequestParam("rimageFile") MultipartFile rimageFile,
HttpServletRequest request) throws IOException {
    //项目的部署目录 + img/product/rimage/
    String savePath = request.getServletContext().getRealPath("img/product/rimage/");

    //处理随机文件名
    String fileName = UUID.randomUUID().toString().replaceAll("-", "") + "." +
FilenameUtils.getExtension(rimageFile.getOriginalFilename());

    //上传目录如果不存在,先创建
    File savePathDir = new File(savePath);
    if (!savePathDir.exists()) {
        savePathDir.mkdirs();
    }

    //保存文件
    rimageFile.transferTo(new File(savePathDir, fileName));
    //设置线路的rimage属性=文件的相对路径
    route.setRimage("img/product/rimage/" + fileName);
}
```



## 项目图片文件上传，*注意重复文件名的处理*

### 页面

页面使用基于bootstrap的图片上传插件fileinput

参考官方文档<http://bootstrap-fileinput.com/>

bootstrap-fileinput是一款非常优秀的HTML5文件上传插件，支持文件预览、多选等一系列特性

一款非常优秀的HTML5文件上传插件，支持bootstrap 3.x 和4.x版本，具有非常多的特性:多文件选择。这个插件能最简单的帮你完成文件上传功能，且使用bootstrap样式。还支持多种文件的预览，images, text, html, video, audio, flash。另外还支持ajax方式上传文件，可以看到上传进度。支持拖拽的方式添加和删除文件

### 用法

如果你将一个 `css` `class='file'` 属性赋予 `input` 标签，插件将自动把字段 `[input type="file"]` 转换为文件输入控件。但是，如果你想通过 `javascript` 单独初始化插件，那么请勿将 `css` `class='file'` 属性附加到上（因为这将导致重复的初始化，并且JavaScript代码可能会被跳过不执行）

#### 步骤一

引入相关的依赖的插件

```
<script src="/assets/js/bootstrap.min.js"></script>
<link href="/js/fileinput/css/fileinput.css" media="all" rel="stylesheet" type="text/css" />
<script src="/js/fileinput/js/fileinput.js" type="text/javascript"></script>
<script src="/js/fileinput/js/fileinput_locale_zh.js" type="text/javascript"></script>
```

#### 步骤二

方法一：在文件域中设置class="file"

```
<input id="rimageFile" name="rimageFile" class="file" type="file">
```

注意html的input属性multiple，决定fileinput是否接受多图片上传

方法二：使用js把文件域转换成fileinput对象

```
<input id="rimageFile" name="rimageFile" type="file" >
<script >
    $(function(){
        $("#rimageFile").fileinput({
        });
    })
</script>
```

### 修改

加载数据，调到修改页面

```

@RequestMapping("/toupdate/{id}")
public String toUpdate(@PathVariable("id") Integer id, Model model) {
    Route route = routeService.findById(id);
    model.addAttribute("route", route);

    //查询所有分类生成下拉框
    List<Category> categories = categoryService.find();
    model.addAttribute("categories", categories);
    List<Seller> sellers = sellerService.find(new Seller());
    model.addAttribute("sellers", sellers);

    return "route/update";
}

```

修改回显主图（缩略图）到页面

拷贝素材，修改响应代码练习

```

<script th:inline="javascript">
    $(function(){
        var rimage = '/' + [[${route.rimage}]];
        $("#rimageFile").fileinput({
            initialPreview: [
                "<img src='" + rimage + "' class='file-preview-image' >"
            ],
            overwriteInitial: true
        });
    })
</script>

```

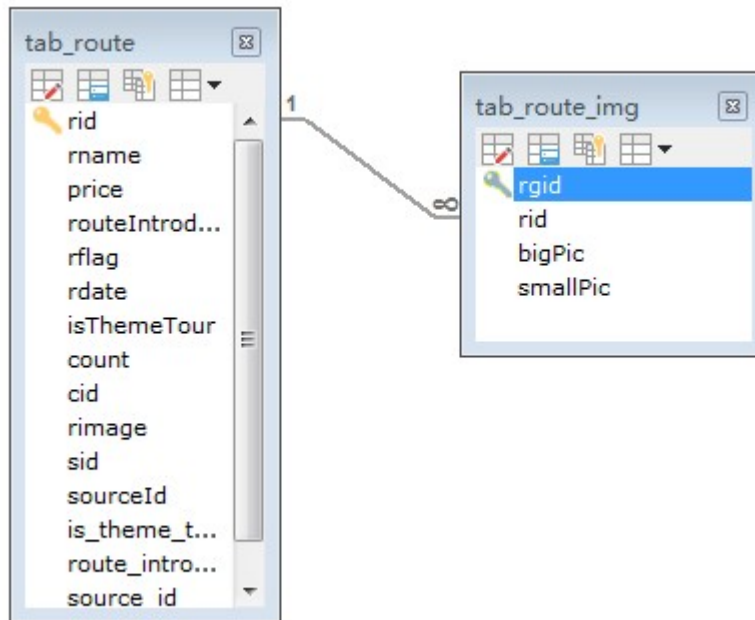
initialPreview: 数组类型，指定初始化回显的图片列表

overwriteInitial: 覆盖之前回显的内容

## 线路详细图片

需求: 一条旅游线路，有多张介绍线路的详细图片，详细图片分为小图和大图，前端选择小图可以预览大图

数据结构



service

```

public interface RouteImgService {

    /**
     * 处理线路图片
     * @param rid: 线路id
     * @param routeImgs: 要添加的线路图片列表
     */
    public void saveImg(Integer rid, List<RouteImg> routeImgs);

}
  
```

```

@Service
public class RouteImgServiceImpl implements RouteImgService {

    @Autowired
    private RouteImgDao imgDao;

    @Override
    @Transactional
    public void saveImg(Integer rid, List<RouteImg> routeImgs) {
        imgDao.delete(Wrappers.<RouteImg>query().eq("rid", rid));
        for (RouteImg ri : routeImgs) {
            imgDao.insert(ri);
        }
    }
}
  
```

controller和页面

查看线路详细图片

```

/**
 * 根据id加载线路图片, 跳到image.html
 * @param id
 * @param model
 * @return
 */
@RequestMapping("/toimage/{id}")
public String toImage(@PathVariable("id") Integer id, Model model) {
    Route route = routeService.findById(id);
    model.addAttribute("route", route);

    return "route/image";
}

```

页面回显image.html

```

<div class="page-content">

    <form action="/admin/route/doimage" enctype="multipart/form-data" method="post">
        <input type="hidden" name="rid" th:value="${route.rid}">

        <div class="form-group">
            <label for="bigPicFile">详细大图: </label>
            <input id="bigPicFile" name="bigPicFile" type="file" multiple >
        </div>
        <div class="form-group">
            <label for="smallPicFile">详细小图: </label>
            <input id="smallPicFile" name="smallPicFile" type="file" multiple >
        </div>

        <div class="form-group" style="text-align: center">
            <input class="btn btn-primary" type="submit" value="提交" />
            <input class="btn btn-default" type="reset" value="重置" />
            <input class="btn btn-default" type="button" value="返回" />
        </div>
    </form>

</div><!-- /.page-content -->
<script th:inline="javascript">
    var ri = [[${route.routeImgList}]]; //后台查询的图片列表
    var bi = []; //回显的大图数组
    var si = []; //回显的小图数组
    for (var i = 0; i < ri.length; i++) {
        bi.push("<img src='/' + ri[i].bigpic +'' class='file-preview-image' >");
        si.push("<img src='/' + ri[i].smallpic +'' class='file-preview-image' >");
    }
    $("#bigPicFile").fileinput({
        initialPreview: bi,
        overwriteInitial: true,
        minFileCount: 1,
        maxFileCount: 4
    });

```

```

        $("#smallPicFile").fileinput({
            initialPreview: si,
            overwriteInitial: true,
            minFileCount: 1,
            maxFileCount: 4
        });
    </script>
</div>
</div><!-- /.main-content -->

```

注意html5属性multiple，表示可以多文件上传

保存线路详细图片

```

/**
 * 根据id加载线路图片，跳到image.html
 * @param id
 * @param model
 * @return
 */
@RequestMapping("/toimage/{id}")
public String toImage(@PathVariable("id") Integer id, Model model) {
    Route route = routeService.findById(id);
    model.addAttribute("route", route);

    return "route/image";
}

@RequestMapping("/doimage")
public String doImage(
    Integer rid,
    @RequestParam("bigPicFile") MultipartFile[] bigPicFile,
    @RequestParam("smallPicFile") MultipartFile[] smallPicFile,
    HttpServletRequest request) throws Exception {

    List<String> bigPic = new ArrayList<>();
    List<String> smallPic = new ArrayList<>();

    String path = request.getServletContext().getRealPath("/");
    for (MultipartFile f : bigPicFile) {
        File bigPath = new File(path + "img\\product\\big-pic\\");
        if (!bigPath.exists()) {
            bigPath.mkdirs();
        }
        String fileName = UUID.randomUUID().toString().replace("-", "") + "." +
        FilenameUtils.getExtension(f.getOriginalFilename());
        f.transferTo(new File(bigPath, fileName));
        bigPic.add("img/product/big-pic/" + fileName);
    }

    for (MultipartFile f : smallPicFile) {
        File smallPath = new File(path + "img\\product\\small-pic\\");
        if (!smallPath.exists()) {

```

```
        smallPath.mkdirs();
    }
    String fileName = UUID.randomUUID().toString().replace("-", "") + "." +
FilenameUtils.getExtension(f.getOriginalFilename());
    f.transferTo(new File(smallPath, fileName));
    smallPic.add("img/product/small-pic/" + fileName);
}

//要添加的图片列表
List<RouteImg> ris = new ArrayList<>();
for (int i=0; i<bigPic.size(); i++) {
    RouteImg img = new RouteImg();
    img.setRid(rid);
    img.setBigpic(bigPic.get(i));
    img.setSmallpic(smallPic.get(i));
    ris.add(img);
}

imgService.saveImg(rid, ris);

return "redirect:/admin/route/page";
}
```