

# 第7章 网站前台-吐槽与问答

#### 学习目标:

- 完成吐槽列表与详细页
- 完成发吐槽与评论功能,掌握富文本编辑器的使用
- 完成问答频道功能
- 掌握DataURL和阿里云OSS

# 1 吐槽列表与详细页

# 1.1 吐槽列表页

### 1.1.1 吐槽列表页数据渲染

吐槽列表页已经构建, 我们现在来实现数据的渲染

(1) easyMock模拟数据

URL: spit/spit/search/{page}/{size}

Method: post



```
"code": 20000,
 "flag": true,
  "message": "查询成功",
  "data": {
    "total": "@integer(60, 100)",
    "rows | 10": [{
      "id": "@string",
      "content": "@cword(100,300)",
      "publishtime": "@datetime",
      "userid": "@string",
      "nickname": "小雅",
      "visits": "@integer(60, 100)",
      "thumbup": "@integer(60, 100)",
      "share": "@integer(60, 100)",
      "comment": "@integer(60, 100)",
      "state": "@string",
      "parentid": "@string"
    }]
 }
}
```

#### (2) api目录下创建spit.js

```
import request from '@/utils/request'
const group_name = 'spit'
const api_name = 'spit'
export default {
    search(page, size, searchMap) {
        return request({
            url: `/${group_name}/${api_name}/search/${page}/${size}`,
            method: 'post',
            data: searchMap
        })
    }
}
```

#### (3) 修改pages/spit/index.vue



```
<template>
   <div>
  <div class="wrapper tag-item">
   <div class="fl left-list">
    <div class="tc-data-list">
     <div class="tc-list">
      <div class="fl record">
         <div class="number">
         <div class="border useful">
          <a href="#" class="zan"><i class="fa fa-</pre>
thumbs-up " aria-hidden="true"></i></a>
           {{item.thumbup}} 
         </div>
         <div class="border answer">
          <a href="#" class="star"><i class="fa fa-star-o" aria-</pre>
hidden="true"></i></a>
         </div>
         </div>
        </div>
        <div class="info">
          <a href="~/assets/spit-detail.html"</pre>
target=" blank"> {{item.content}} </a> 
         <div class="other">
         <div class="fl date">
          <span>{{item.publishtime}}</span>
         </div>
         <div class="fr remark">
          <a href="#" data-toggle="modal" data-target="#shareModal"</pre>
class="share"><i class="fa fa-share-alt" aria-hidden="true"></i> 分享</a>
          <a href="#" data-toggle="modal" data-target="#remarkModal"</pre>
class="comment"><i class="fa fa-commenting" aria-hidden="true"></i> 回
复</a>
         </div>
        </div>
        </div>
        <div class="clearfix"></div> 
      <div class="modal fade" id="shareModal" tabindex="-1"</pre>
```



```
role="dialog" aria-labelledby="myModalLabel">
        <div class="modal-dialog" role="document">
        <div class="modal-content">
         <div class="modal-header">
          <button type="button" class="close" data-dismiss="modal" aria-</pre>
label="Close"><span aria-hidden="true">&times;</span></button>
          <h4 class="modal-title" id="myModalLabel">分享到</h4>
         </div>
         <div class="modal-body" style="overflow:hidden">
          <div class="jiathis style 32x32">
           <a class="jiathis button qzone"></a>
           <a class="jiathis button tsina"></a>
           <a class="jiathis button weixin"></a>
           <a class="jiathis_button cqq"></a>
          </div>
         </div>
        </div>
       </div>
      </div>
       <div class="modal fade" id="remarkModal" tabindex="-1"</pre>
role="dialog" aria-labelledby="myModalLabel">
       <div class="modal-dialog" role="document">
        <div class="modal-content">
         <div class="modal-header">
          <button type="button" class="close" data-dismiss="modal" aria-</pre>
label="Close"><span aria-hidden="true">&times;</span></button>
          <h4 class="modal-title" id="myModalLabel">发表评论</h4>
         </div>
         <div class="modal-body">
          <div class="comment">
           <span class="who"><img src="~/assets/img/asset-photo.png" />
匿名评论</span>: 今天入职腾讯,产品岗,普通非985211大学,上家是不到五十人创业小
公司! 16年毕业! 找内推腾讯给的面试机会, 五轮面试! 可能是我把运气攒一起了!
          </div>
          <div class="form">
           <textarea class="form-control" rows="5" placeholder="匿名评
论"></textarea>
           <div class="remark">
            <button class="sui-btn btn-info">发表</button>
           </div>
          </div>
```



```
</div>
         </div>
       </div>
       </div>
      </div>
    </div>
    </div>
    <div class="fl right-tag">
    <div class="block-btn">
     来个匿名吐槽,发泄一下你心中的怒火吧! 
      <a class="sui-btn btn-block btn-share" href="~/assets/spit-</pre>
submit.html" target=" blank">发吐槽</a>
    </div>
    </div>
    <div class="clearfix"></div>
   </div>
    </div>
</template>
<script>
import '~/assets/css/page-sj-spit-index.css'
import spitApi from '@/api/spit'
export default {
    asyncData(){
        return spitApi.search(1,10, {state:'1'} ).then( res=> {
            return {items:res.data.data.rows}
       })
    }
}
</script>
```

#### 1.1.2 吐槽列表瀑布流

修改页面pages/spit/index.vue

```
<div class="tc-list" v-infinite-scroll="loadMore" >
```

修改pages/spit/index.vue,添加pageNo用于记录页码 增加方法

```
data(){
    return {
        pageNo: 1
    }
},
methods:{
    loadMore(){
        this.pageNo++
        spitApi.search( this.pageNo,10,{state:'1'} ).then( res=>{
            this.items=this.items.concat( res.data.data.rows )
        })
    }
}
```

# 1.2 吐槽详情页

## 1.2.1 构建吐槽详情页

- (1) 根据spit-detail.html创建pages/spit/\_id.vue,内容略
- (2) 修改pages/spit/index.vue 页面链接

```
<router-link :to="'/spit/'+item.id"> {{item.content}} </router-link>
```

## 1.2.2 吐槽详情页数据渲染

(1) easyMock模拟数据

URL: spit/spit/{id}

Methos: GET

```
"code": 20000,
"flag": true,
"message": "@string",
"data": {
    "id": "@string",
    "nikename": "小雅",
    "content": "@cword(100,300)",
    "publishtime": "@datetime",
    "thumbup": "@integer(60, 100)",
    "share": "@integer(60, 100)",
    "comment": "@integer(60, 100)"
}
```

URL: spit/spit/commentlist/{id}

Method: GET

```
{
    "code": 20000,
    "flag": true,
    "message": "@string",
    "data|10": [{
        "id": "@string",
        "content": "我要评论我要评论我要评论我要评论我要评论我要评论,
        "nikename": "小雅",
        "publishtime": "@datetime",
        "thumbup": "@integer(60, 100)"
    }]
}
```

#### (2) 修改api/spit.js

```
findById(id){
    return request({
        url: `/${api_group}/${api_name}/${id}`,
        method: 'get'
    })
},
commentlist(id){
    return request({
        url: `/${api_group}/${api_name}/commentlist/${id}`,
        method: 'get'
    })
}
```

(3) 修改pages/spit/\_id.vue



```
<template>
   <div class="wrapper tc-detail">
   <div class="fl left-list">
    <div class="tc-detail">
     <!-- 标题区 -->
     <div class="detail-tit">
     <div class="detail-author">
      <a href="javascript:;">{{pojo.nickname}}</a> 发布
     </div>
     <div class="detail-content">
      {{pojo.content}}
     </div>
     <div class="detail-tool">
      <l
       <span class="star"><i class="fa fa-thumbs-o-up" aria-
hidden="true"></i> {{pojo.thumbup}}</span>
       <a href="#" data-toggle="modal" data-target="#shareModal"><i</a>
class="fa fa-share-alt" aria-hidden="true"></i> {{pojo.share}}</a>
       <a data-toggle="modal" data-target="#remarkModal"><i
class="fa fa-commenting" aria-hidden="true"></i> {{pojo.comment}}</a>
</div>
     </div>
     <!-- 评论区 -->
     <div class="comment-area">
     <div class="comment-tit">
      <span>评论</span>
     </div>
     <div class="item-photo">
        <img src="~/assets/img/widget-widget-photo.png" alt="" />
       </div>
       <div class="item-content">
        <a href="javascript:;">{{item.nickname}}</a></a>
发布
        {{item.content}}
       </div>
```



```
<div class="item-thumb">
          <div>
           <i class="fa fa-thumbs-o-up" aria-hidden="true"></i></i>
{{item.thumbup}}
          </div>
         </div> 
      </div>
    </div>
    </div>
    <div class="fl right-tag">
    <div class="block-btn">
      来个匿名吐槽,发泄一下你心中的怒火吧! 
      <a class="sui-btn btn-block btn-share" href="~/assets/spit-</pre>
submit.html" target="_blank">发吐槽</a>
    </div>
    </div>
    <div class="clearfix"></div>
  </div>
</template>
<script>
import '~/assets/css/page-sj-spit-detail.css'
import spitApi from '@/api/spit'
import axios from 'axios'
export default {
    asyncData({params}){
       return axios.all( [
spitApi.findById(params.id), spitApi.commentlist(params.id) ] ).then(
            axios.spread( function( pojo,commentlist ){
                return {
                    pojo: pojo.data.data,
                    commentlist: commentlist.data.data
                }
           })
         )
    }
}
</script>
```



# 1.3 吐槽点赞

# 1.3.1 基本功能

(1) easyMock模拟数据

URL: spit/spit/thumbup/{id}

Method: put

```
{
    "code": 20000,
    "flag": true,
    "message": "执行成功"
}
```

(2) api/spit.js 增加方法

```
thumbup(id) {
  return request({
    url: `/${api_group}/${api_name}/thumbup/${id}`,
    method: 'put'
  })
}
```

(3) 修改pages/spit/index.vue

```
methods: {
    thumbup(index){
        spitApi.thumbup(this.items[index].id).then( res=>{
            if(res.data.flag){
                this.items[index].thumbup++
            }
        })
    }
}
```

(4) 点赞调用



<a href="#" class="zan"><i
class="fa fa-thumbs-up " aria-hidden="true"></i></a>

## 1.3.2 样式处理

实现点赞后,大拇指图标变色。样式表已经写好,在li 的样式上加上color 即可

(1) 修改pages/spit/index.vue 的代码部分



```
import '~/assets/css/page-sj-spit-index.css'
import spitApi from '@/api/spit'
export default {
    asyncData(){
        return spitApi.search(1,10, {state:'1'} ).then( res=> {
            let tmp= res.data.data.rows.map( item=>{
                return {
                     ...item,
                    zan: ''
                }
            })
            return {items:tmp}
        })
    },
    data(){
        return {
            pageNo: 1
        }
    },
    methods:{
        loadMore(){
           this.pageNo++
           spitApi.search( this.pageNo,10,{state:'1'} ).then( res=>{
                let tmp= res.data.data.rows.map( item=>{
                    return {
                         ...item,
                         zan: ''
                    }
                })
               this.items=this.items.concat( tmp )
           })
        },
        thumbup(index){
            this.items[index].zan='color'
            spitApi.thumbup(this.items[index].id).then( res=>{
                if(res.data.flag){
                   this.items[index].thumbup++
                }
            })
```



```
}
}
```

(2) 修改pages/spit/index.vue的html部分

```
<a href="#" class="zan">
     <i :class="'fa fa-thumbs-up '+item.zan" aria-hidden="true"></i>
</a>
```

## 1.3.3 判断是否登陆

要求: 点赞必须要在用户登陆的情况下执行,非登陆状态下不能点赞。并且不可重复点赞

导入getUser

```
import {getUser} from '@/utils/auth'
```

修改thumbup(点赞)方法



```
thumbup(index){
     if(getUser().name===undefined){
         this.$message({
             message:'必须登陆才可以点赞哦~',
            type: "warning"
         })
         return
     }
     if( this.items[index].zan==='color'){
         this.$message({
             message:'不可以重复点赞哦~',
            type: "warning"
         })
         return
     }
     this.items[index].zan='color'
     spitApi.thumbup(this.items[index].id).then( res=>{
         if(res.data.flag){
            this.items[index].thumbup++
         }
     })
 }
```

### 1.3.4 提交token

修改utils/request.js ,每次请求将token添加到header里

```
import axios from 'axios'
import {getUser} from '@/utils/auth'
// 创建axios实例
const service = axios.create({
    baseURL: 'http://192.168.184.133:7300/mock/5af314a4c612520d0d7650c7',
// api的base_url
    timeout: 30000, // 请求超时时间
    headers: { 'Authorization': 'Bearer '+getUser().token }
    })
export default service
```

# 2 发吐槽与吐槽评论



# 2.1 发吐槽

#### 2.1.1 构建页面

我们这里用到VUE常用的富文本编辑器vue-quill-editor

详见文档: <a href="https://www.npmjs.com/package/vue-quill-editor">https://www.npmjs.com/package/vue-quill-editor</a>

(1) 安装vue-quill-editor

```
cnpm install vue-quill-editor --save
```

(2) plugins下创建nuxt-quill-plugin.js

```
import Vue from 'vue'
import VueQuillEditor from 'vue-quill-editor/dist/ssr'
Vue.use(VueQuillEditor)
```

(3) 修改nuxt.config.js,配置插件和样式

(4) pages/spit/submit.vue



```
<template>
 <div class="wrapper release-tc">
   <div class="release-box">
    <h3>发布吐槽</h3>
    <div class="editor">
     <div class="quill-editor"</pre>
         :content="content"
         @change="onEditorChange($event)"
         @blur="onEditorBlur($event)"
         @focus="onEditorFocus($event)"
         @ready="onEditorReady($event)"
         v-quill:myQuillEditor="editorOption">
     </div>
     <div class="btns">
      <button class="sui-btn btn-danger btn-release">发布</button>
     </div>
     <div class="clearfix"></div>
    </div>
  </div>
  <div class="clearfix"></div>
 </div>
</template>
<script>
import '~/assets/css/page-sj-spit-submit.css'
 export default {
    data () {
      return {
        content: '',
        editorOption: {
          // some quill options
          modules: {
            toolbar: [
              [{ 'size': ['small', false, 'large'] }],
              ['bold', 'italic'],
              [{ 'list': 'ordered'}, { 'list': 'bullet' }],
              ['link', 'image']
            1
```



```
}
    },
    mounted() {
      console.log('app init, my quill insrance object is:',
this.myQuillEditor)
      /*setTimeout(() => {
        this.content = 'i am changed'
      }, 3000)*/
    },
    methods: {
      onEditorBlur(editor) {
        console.log('editor blur!', editor)
      },
      onEditorFocus(editor) {
        console.log('editor focus!', editor)
      },
      onEditorReady(editor) {
        console.log('editor ready!', editor)
      },
      onEditorChange({ editor, html, text }) {
        console.log('editor change!', editor, html, text)
        this.content = html
      }
    }
  }
</script>
<style>
.quill-editor {
      min-height: 200px;
      max-height: 400px;
      overflow-y: auto;
    }
</style>
```

(5) 修改pages/spit/index.vue 链接到此页面

```
<router-link class="sui-btn btn-block btn-share" to="/spit/submit">发吐槽
</router-link>
```



## 2.1.2 提交吐槽

(1) easyMock模拟数据

URL:spit/spit

Method: post

```
{
    "code": 20000,
    "flag": true,
    "message": "执行成功"
}
```

(2) 修改api/spit.js ,增加提交吐槽的方法

```
save(pojo) {
    return request({
        url: `/${group_name}/${api_name}`,
        method: 'post',
        data: pojo
    })
}
```

(2) 修改pages/spit/submit.vue 引入API

```
import spitApi from '@/api/spit'
```

在methods增加方法



\$router.push()的作用是路由跳转。

(3) 发布按钮调用方法

```
<button class="sui-btn btn-danger btn-release" @click="save">发布</button>
```

## 2.2 吐槽评论

## 2.2.1 评论弹出框

我们这里的评论弹出框使用elementUI的弹出框来实现

(1) 修改pages/spit/\_id.vue,添加弹出框,弹出框中放置富文本编辑器



```
<el-dialog
        title="评论"
        :visible.sync="dialogVisible"
        width="40%" >
        <div class="quill-editor"</pre>
            :content="content"
            @change="onEditorChange($event)"
            v-quill:myQuillEditor="editorOption">
        </div>
        <span slot="footer" class="dialog-footer">
            <el-button @click="dialogVisible = false">取 消</el-button>
            <el-button type="primary" @click="dialogVisible = false">确 定
</el-button>
        </span>
    </el-dialog>
```

为富文本编辑框添加样式:

```
<style>
.quill-editor {
      min-height: 200px;
      max-height: 400px;
      overflow-y: auto;
    }
</style>
```

(2) 修改pages/spit/\_id.vue代码部分

```
data(){
     return {
         dialogVisible: false,
         content: '',
         editorOption: {
         // some quill options
             modules: {
                 toolbar: [
                 [{ 'size': ['small', false, 'large'] }],
                 ['bold', 'italic'],
                 [{ 'list': 'ordered'}, { 'list': 'bullet' }],
                 ['link', 'image']
             }
         }
     }
 },
methods:{
   onEditorChange({ editor, html, text }) {
     console.log('editor change!', editor, html, text)
     this.content = html
   }
 }
```

(3) 修改pages/spit/\_id.vue 中的回复链接

```
<a @click="dialogVisible=true;content=''"><i class="fa fa-commenting"
aria-hidden="true"></i> {{pojo.comment}}</a>
```

## 2.2.2 提交评论

修改pages/spit/\_id.vue ,增加提交回复的方法



编辑提交按钮

```
<el-button type="primary" @click="save">提交</el-button>
```

# 3问答频道

# 3.1 嵌套布局与标签导航

## 3.1.1 嵌套布局

(1) 创建pages/qa.vue



```
<template>
   <div>
     <div class="tab-nav">
      <div class="wrapper">
        <a href="#index" data-toggle="tab">首页</a>
<a href="#php" data-toggle="tab">Php</a>
        <a href="#js" data-toggle="tab">Javascript </a>
        <a href="#python" data-toggle="tab">Python</a>
        <a href="#java" data-toggle="tab">Java</a>
        <span class="fr more"><a href="./qa-allTag.html"</pre>
target=" blank">更多</a></span>
        <div class="clearfix"></div>
      </div>
    </div>
    <nuxt-child/>
   </div>
</template>
<script>
import '~/assets/css/page-sj-qa-logined.css'
export default {
}
</script>
```

(2) 创建pages/qa/label/\_label.vue



```
<template>
 <div class="wrapper qa-content">
  <div class="fl left-list">
  <div class="tab-content">
   <div id="index" class="tab-pane active">
    <div class="tab-bottom-line">
     <a href="#new" data-toggle="tab">最新回答</a>
<a href="#hot" data-toggle="tab">热门回答</a>
     <a href="#wait" data-toggle="tab">等待回答</a>
     <div class="qa-list">
     <div class="tab-content">
      <div id="new" class="tab-pane active">
       <div class="fl record">
         <div class="number">
          <div class="border useful">
          12
          有用
          </div>
          <div class="border answer">
          9
          </div>
         </div>
        </div>
        <div class="fl info">
         <div class="question">
          <span class="name">luckness</span>
<span>3</span>分钟前回答
          <a href="./qa-detail.html"</pre>
target="_blank">有关PHP初级进阶的问题? </a>
         </div>
         <div class="other">
          Php
           Javascript
```



```
<div class="fr brower">
           浏览量 50 | 2017-07-05 15:09 来自 <a href="#"> < 脚 </a>
</div>
         </div>
        </div>
        <div class="clearfix"></div> 
        <div class="fl record">
         <div class="number">
          <div class="border useful">
           12
          有用
          </div>
          <div class="border answer">
          9
          回答
          </div>
         </div>
        </div>
        <div class="fl info">
         <div class="question">
          <span class="name">牛奶糖</span>
<span>3</span>分钟前回答
          <a href="./qa-detail.html"</pre>
target="_blank">springMVC的controller接收json数据失败</a>
         </div>
         <div class="other">
          Php
           Javascript
          <div class="fr brower">
           浏览量 50 | 2017-07-05 15:09 来自 <a href="#"> < 脚 </a>
</div>
         </div>
        </div>
        <div class="clearfix"></div>
```



```
<div class="fl record">
        <div class="number">
         <div class="border useful">
         12
         有用
         </div>
         <div class="border answer">
         9
         回答
         </div>
        </div>
       </div>
       <div class="fl info">
        <div class="question">
         <span class="name">大白兔</span>
<span>3</span>分钟前回答
         <a href="./qa-detail.html"</pre>
target=" blank">监听器中timer查询数据库</a>
        </div>
        <div class="other">
         Php
         Javascript
         <div class="fr brower">
         </div>
        </div>
       </div>
       <div class="clearfix"></div> 
       <div class="fl record">
        <div class="number">
         <div class="border useful">
         34
         有用
         </div>
         <div class="border answer">
         9
```



```
</div>
         </div>
        </div>
        <div class="fl info">
         <div class="question">
          <span class="name">luckness</span>
<span>3</span>分钟前回答
          <a href="./qa-detail.html"</pre>
target="blank">服务器上安装了一个考试系统ASP.NET,安装完成后访问不了,求助</a>
</div>
         <div class="other">
          Php
           Javascript
          <div class="fr brower">
           >浏览量 50 | 2017-07-05 15:09 来自 <a href="#">以 </a>
</div>
         </div>
        </div>
        <div class="clearfix"></div> 
        <div class="fl record">
         <div class="number">
          <div class="border useful">
           12
          有用
          </div>
          <div class="border answer">
           9
          </div>
         </div>
        </div>
        <div class="fl info">
         <div class="question">
          <span class="name">牛奶糖</span>
<span>3</span>分钟前回答
          <a href="./qa-detail.html"</pre>
```



```
target=" blank">springMVC的controller接收json数据失败</a>
         </div>
         <div class="other">
          Php
          Javascript
          <div class="fr brower">
          浏览量 50 | 2017-07-05 15:09 来自 <a href="#">以 </a>
</div>
         </div>
        </div>
        <div class="clearfix"></div> 
       <div class="fl record">
         <div class="number">
          <div class="border useful">
          12
          有用
          </div>
          <div class="border answer">
          9
          </div>
         </div>
        </div>
        <div class="fl info">
         <div class="question">
          <span class="name">大白兔</span>
<span>3</span>分钟前回答
          <a href="./qa-detail.html"</pre>
target="_blank">监听器中timer查询数据库</a>
         </div>
         <div class="other">
          Php
          Javascript
          <div class="fr brower">
          浏览量 50 | 2017-07-05 15:09 来自 <a href="#">以 </a>
```



```
</div>
            </div>
           </div>
           <div class="clearfix"></div> 
         </div>
        <div id="hot" class="tab-pane">
         </div>
        <div id="wait" class="tab-pane">
         等待回答
        </div>
       </div>
      </div>
     </div>
    </div>
    <div id="php" class="tab-pane">
      php
    </div>
    <div id="js" class="tab-pane">
      Javascript
    </div>
    <div id="python" class="tab-pane">
      python
    </div>
    <div id="java" class="tab-pane">
      java
    </div>
   </div>
  </div>
  <div class="fl right-tag">
   <div class="block-btn">
    >今天,有什么好东西要和大家分享么?
    <a class="sui-btn btn-block btn-share" href="./qa-submit.html"</pre>
target=" blank">发布问题</a>
   </div>
   <div class="hot-tags">
    <div class="head">
     <h3 class="title">热门标签</h3>
    </div>
```



```
<div class="tags">
   Php
    Javascript
    Gif
    Java
    C#
    i0S
    C++
   </div>
  </div>
 </div>
 <div class="clearfix"></div>
 </div>
</template>
```

#### (3) 创建pages/qa/index.vue

#### 3.1.2 标签导航

(1) easyMock模拟数据

URL: base/label/toplist

Method: GET



```
"flag": true,
 "code": 20000,
 "data": [{
      "id": "1",
     "labelname": "JAVA"
    },
    {
     "id": "2",
     "labelname": "PHP"
    },
    {
      "id": "3",
     "labelname": "前端"
    },
      "id": "4",
     "labelname": "Python"
    }
 1
}
```

#### (2) 编写标签API 创建api/label.js

```
import request from '@/utils/request'
import {getUser} from '@/utils/auth'
const api_group = 'base'
const api_name = 'label'
export default {
  toplist() {
    return request({
      url: `/${api_group}/${api_name}/toplist`,
      method: 'get'
    })
  }
}
```

#### (3) 修改pages/qa.vue

```
<template>
 <div>
   <div class="tab-nav">
       <div class="wrapper">
           <router-link tag="li" to="/qa" active-class="active" exact >
<a> 首页</a></router-link>
           <router-link tag="li" :to="'/qa/label/'+item.id" active-</pre>
class="active" v-for="(item,index) in labelList" :key="index" >
               <a>{{item.labelname}} </a>
           </router-link>
           <span class="fr more"><a href="./qa-allTag.html"</pre>
target="_blank">更多</a></span>
           <div class="clearfix"></div>
       </div>
   </div>
   <nuxt-child/>
 </div>
</template>
<script>
import labelApi from '@/api/label'
export default {
   asyncData ({ params, error}) {
       return labelApi.toplist().then((res) => {
           return {labelList: res.data.data }
       })
   }
}
</script>
```

#### (4) 创建pages/qa/index.vue

```
<template>
    <div>
        这里是问答列表
        </div>
        </template>
```



# 3.2 问答列表

## 3.2.1 最新问答列表

(1) easy-mock模拟数据

URL:/qa/problem/newlist/{label}/{page}/{size}

Method:GET

```
"code": "@integer(60, 100)",
 "flag": "@boolean",
  "message": "@string",
  "data": {
    "total": "@integer(60, 100)",
    "rows | 10": [{
      "id": "@integer(1, 1000)",
      "title": "@cword(20,30)",
      "content": "@string",
      "createtime": "@datetime",
      "updatetime": "@datetime",
      "userid": "@integer(1, 1000)",
      "nickname": "小马",
      "visits": "@integer(60, 100)",
      "thumbup": "@integer(60, 100)",
      "reply": "@integer(60, 100)",
      "solve": "@string",
      "replyname": "小牛",
      "replytime": "@datetime"
    }]
 }
}
```

(2) API编写 创建api/problem.js



```
import request from '@/utils/request'
const group_name = 'qa'
const api_name = 'problem'
export default {
    list(type,label,page,size){
        return request({

    url:`/${group_name}/${api_name}/${type}/${label}/${page}/${size}`,
        method: 'get'
    })
    }
}
```

(3) 修改pages/qa/label/\_label.vue 脚本部分

```
import problemApi from '@/api/problem'
import axios from 'axios'
export default {
 asyncData({params}){
    return axios.all([problemApi.list('newlist',params.label,1,10),
      problemApi.list('hotlist',params.label,1,10),
        problemApi.list('waitlist',params.label,1,10) ] ).then(
axios.spread(function(newlist,hotlist,waitlist ){
          return {
            newlist:newlist.data.data.rows,
            hotlist:hotlist.data.data.rows,
            waitlist:waitlist.data.data.rows
          }
        }))
 }
}
```

(4) 修改pages/qa/label/\_label.vue 模板部分



```
:key="index">
        <div class="fl record">
         <div class="number">
          <div class="border useful">
           {{item.thumbup}}
           有用
          </div>
          <div class="border answer">
           {{item.reply}}
           回答
          </div>
         </div>
         </div>
         <div class="fl info">
         <div class="question">
          <span class="name">{{item.replyname}}
</span><span>{{item.replytime}}</span>回答
          <a href="./ga-detail.html"</pre>
target="_blank">{{item.title}}</a>
         </div>
         <div class="other">
          <div class="fr brower">
           浏览量 {{item.visits}} | {{item.createtime}} 来自 <a
href="#">{{item.nickname}} </a>
          </div>
         </div>
         </div>
         <div class="clearfix"></div>
```

#### 3.2.2 热门回答和等待回答列表

(1) 定义属性type ,默认值为new



```
data(){
    return {
      type:'new'
    }
}
```

#### (2) 修改选项卡

### (3) 修改div的样式为动态获取

最新回答列表

```
<div id="new" :class="'tab-pane '+(type=='new'?'active':'')">
.....
</div>
```

热门回答列表

```
<div id="hot" :class="'tab-pane '+(type=='hot'?'active':'')">
```

等待回答列表

```
<div id="wait" :class="'tab-pane '+(type=='wait'?'active':'')">
```

(4) 参照最新问答列表编写热门回答列表与等待回答列表内容

```
.....
```



## 3.2.3 问答列表瀑布流

(1) 修改pages/qa/label/\_label.vue模板部分

```
<div class="qa-list" v-infinite-scroll="loadMore">
....
```

(2) 修改pages/qa/label/\_label.vue脚本部分



```
import problemApi from '@/api/problem'
import axios from 'axios'
export default {
 asyncData({params}){
    return axios.all([problemApi.list('newlist',params.label,1,10),
     problemApi.list('hotlist',params.label,1,10),
       problemApi.list('waitlist',params.label,1,10) ] ).then(
axios.spread(function(newlist,hotlist,waitlist ){
         return {
           newlist:newlist.data.data.rows,
           hotlist:hotlist.data.data.rows,
           waitlist:waitlist.data.data.rows,
           label:params.label //标签ID, 我们需要记录下来
         }
       }))
 },
 data(){
   return {
     type: 'new',
     page new: 1,//记录最新问题列表的页码
     page hot: 1,//记录热门问题列表的页码
     page wait: 1//记录等待回答列表的页码
   }
 },
 methods:{
   loadMore(){
     if(this.type==='new'){
       this.page new++
       problemApi.list('newlist',this.label,this.page_new,10).then(
res=>{
         this.newlist=this.newlist.concat( res.data.data.rows )
       })
     }
     if(this.type==='hot'){
       this.page hot++
       problemApi.list('hotlist',this.label,this.page_hot,10).then(
res=>{
         this.hotlist=this.hotlist.concat( res.data.data.rows )
       })
```



```
if(this.type==='wait'){
    this.page_wait++
    problemApi.list('waitlist',this.label,this.page_wait,10).then(
res=>{
    this.waitlist=this.waitlist.concat( res.data.data.rows )
    })
  }
}
}
```

# 3.3 问答详细页

学员实现

# 3.4 发布问题页

学员实现。使用富文本编辑器(参见吐槽模块的实现)

# 3.5 标签列表与关注标签

学员实现

# 4图片上传

## 4.1 Data URL

Data URL给了我们一种很巧妙的将图片"嵌入"到HTML中的方法。跟传统的用 img 标记将服务器上的图片引用到页面中的方式不一样,在Data URL协议中,图片被转换成base64编码的字符串形式,并存储在URL中,冠以mime-type。

传统方式:

```
<img src="images/myimg.gif ">
```



这种方式中,img标记的 src 属性指定了一个远程服务器上的资源。当网页加载到浏览器中时,浏览器会针对每个外部资源都向服务器发送一次拉取资源请求,占用网络资源。大多数的浏览器都有一个并发请求数不能超过4个的限制。这意味着,如果一个网页里嵌入了过多的外部资源,这些请求会导致整个页面的加载延迟。而使用Data URL技术,图片数据以base64字符串格式嵌入到了页面中,与HTML成为一体,它的形式如下



<img

北京市昌平区建材城西路金燕龙办公楼一层 电话: 400-618-9090



src=" AAGXRFWHRTb2Z0d2FyZQBBZG9iZSBJbWFnZVJlYWR5ccllPAAAAyJpVFh0WE1MOmNvbS5hZG9 iZS54bXAAAAAADw/eHBhY2tldCBiZWdpbj0i77u/IiBpZD0iVzVNME1wQ2VoaUh6cmVTek5U Y3prYzlkIj8+IDx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iIHg6eG1wdGs9I kFkb2JlIFhNUCBDb3JlIDUuMy1jMDExIDY2LjE0NTY2MSwgMjAxMi8wMi8wNi0xNDo1NjoyNy AgICAgICAgIj4gPHJkZjpSREYgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzA yLzIyLXJkZi1zeW50YXgtbnMjIj4gPHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9IiIgeG1s bnM6eG1wPSJodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvIiB4bWxuczp4bXBNTT0iaHR0c DovL25zLmFkb2J1LmNvbS94YXAvMS4wL21tLyIgeG1sbnM6c3RSZWY9Imh0dHA6Ly9ucy5hZG 9iZS5jb20veGFwLzEuMC9zVH1wZS9SZXNvdXJjZVJ1ZiMiIHhtcDpDcmVhdG9yVG9vbD0iQWR vYmUgUGhvdG9zaG9wIENTNiAoV2luZG93cykiIHhtcE1NOkluc3RhbmNlSUQ9InhtcC5paWQ6 OUQyRTkxNThFRDEyMTFFNjhENUY5QjM0OUZGQzEwN0IiIHhtcE1NOkRvY3VtZW50SUQ9Inhtc C5kaWQ6OUQyRTkxNT1FRDEyMTFFNjhENUY5QjM0OUZGQzEwN0IiPiA8eG1wTU06RGVyaXZ1ZE Zyb20gc3RSZWY6aW5zdGFuY2VJRD0ieG1wLmlpZDo5RDJF0TE1NkVEMTIxMUU20EQ1Rj1CMzQ 5RkZDMTA3QiIgc3RSZWY6ZG9jdW1lbnRJRD0ieG1wLmRpZDo5RDJFOTE1N0VEMTIxMUU2OEQ1 RjlCMzQ5RkZDMTA3QiIvPiA8L3JkZjpEZXNjcmlwdGlvbj4gPC9yZGY6UkRGPiA8L3g6eG1wb WV0YT4gPD94cGFja2V0IGVuZD0iciI/Po4slv0AABviSURBVHja7F0JfBRF1u/puXJxCqIiiI D4LawIIq6KgooICh7ITRIIN6ui6KcsiiugCPrJp6KuohwJhFtQDhUPRFg5FJRDkfUAOUQFTAh KyDFX7/tnXieVSs9Mz6TD4W8ev6Knq6urqqvqX++oVxWbUkWUNmRoPbvD/ojd7minBQJHfT5v evbMmX8ocYrTn4OcVmaWOnhwEoHlCZfLNVC1qc5iT/EiT3Fx53mz4qCJ05+PbFZk0n/Q4EtcL uf0xISkG7x+b15xUfHY7JkzZsabN05x8IQGTX3iMkuSEhOv9fn9xYWFhRMJNFPCvXNr97ucdL mCQmsKzSk0pFCPQqKQ7CiFwxR+ofA1hc9Xv718T7y74nTWg6dfRobqsDveSEpOHmRTVbWooGC 9x+fttmD27PwQgK1F154U7qRwkwQUs5RL4SMKyymsIDAVxbsvTmcVePp1DGqTkJDwYYI7obbP 7/MVFBQMnj97VnYI0LSiy4MU+lJwWVjv3ynMpvAigehgvBvjdMaDJ3Xw4PFJSSnj7apq83g90 SSmXb0wK30vAWguo8tTzGmqkrwUZ1EYTyA6Gu/OOJ2R4EkbMvSd5KTkrorNphQVFX7n8RS3XJ iV5ZFAk0KXyRTuoWA/hd9xnMIjBKC4kSJ0Zw54+gwcqLqcri8TE5NaIXFhceFuj8dz2aKsrIA EnL/RZSGFiytRnzUUbg7xrIBCFgMzFK2gkEEgOh7v2jhVNamREriczq8SExJbKZqmFBYV7vEU GwJnCF0+ZeD4TZRrlOZlCotDpN9IAfpTgwj5QkzcQvVpEu/aOJ1W8JCOs8adkNhCUzSFdJzjx HFaL5pTATj/pAvEJZigv2AdRCZYxuZT6M4gyJ0ez2HDwl+keFjY/k6hPYfbTXzTJRQ2s94Vpz idevD0yxg0lUS1joQbJUBUVFR0PQEnXwLOGLo8ybf7KHRGtJAEOhHWfRqQKJVGAWbm8RTq8HM fhbEUB1EAKO/geFjTJ1JoQu9Mp+tVFP4VxXfVhQhI9bs43sVxOqU6T58BA29LSU5516YGH58s OD1xYWbmBAk4feiySIi6m8JOCrr17TMK6eLiJr1zJV228u0HrOR/LeQ3jrnYbIrP53hwkLUC4 KKh7yi0pbxORPMSlYm1qIYWtnM+1WGpQTkwsPS0IP+DlP/aCN9k4za8kEJjTEzMpffwxBRtPX ZTmVuirSjV4yW6DBCi3qd8+sby0ZTXXSzJVJaWUx12cJ6YqJtLDADfeTmlWcZpsE7Zp4JvW+/ OAUkJbvcSWNXAdYo9xQcMgIMZfYYQtV8JL162F8Sw4VSYR8oeFXsGoKNnO6Vn/6a4xVI50QAH ouDrFK6mcAPHXUrhDTDSKBvzfsVaM/sBCksN4vFdmRbkn8XtJA+uJBalUc45ISSNg6xrRluPa TyoFIM+C2dp3UZhlDjk6B2Ml1/DvFNIY+M7g3iAZ6AF7Yfxu8NgDMxk8FyHsYVxT/WA10tXTP AVwGN32Fc6HM5kTdOCsPN6+hjMYPjYakL0h5SpRs+8/GwQ7uW8Ke7VULWnZ79K5TSjy3oKtcJ 8dA6nwcBcSQEWv39IafpSXm9S/m/9iSWIX0K0aQFzt7ph3gWHbWphXWA4qhGl9PNehDQ7LeIw EYm56RbmagtguaXfGRjjFHqwYQu69zZHea6T3jbBndBR/6Li4qIdi+fM+VxWhyhcL8XtEj5yu BFwYviI75nDteb0xewJL4UjFA6xuPG9XhalbcpGCSNRdBo9X01pC2OoyhzW6+ZRgHf43Twojw



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vue-quill-editor的图片上传默认采用Data URL方式。

# 4.2 辅助插件vue-quill-editor-upload

如果你不想使用Data URL方式存储图片,我们可以通过一个辅助插件<u>vue-quill-editor-upload</u>来让vue-quill-editor实现传统方式的上传。

(1) 安装:

cnpm install vue-quill-editor-upload --save

(2) 修改submit.vue 引入插件

import {quillRedefine} from 'vue-quill-editor-upload'



### (3)将editorOption的值改为{}

```
data () {
    return {
       content: '',
       editorOption:{}//修改此处!
    }
}
```

#### (4) 新增created 钩子函数

```
created () {
     this.editorOption = quillRedefine(
      {
        // 图片上传的设置
        uploadConfig: {
          action: 'http://localhost:3000/upload', // 必填参数 图片上传地
址
          // 必选参数 res是一个函数,函数接收的response为上传成功时服务器返
回的数据
          // 你必须把返回的数据中所包含的图片地址 return 回去
          res: (respnse) => {
           return respnse.info
          },
          name: 'img' // 图片上传参数名
        }
      }
     )
   }
```

# 4.3 Multer (了解)

课程中提供了上传图片的服务端代码 upload-server ,我们可以先测试运行后,对照在线文档阅读并理解代码(课程不要求学员独立编写此段代码)

```
cnpm install
npm run start
```

这段代码主要应用两项技术:



(1) Express --node.js的web框架 在线文档:

## http://www.expressjs.com.cn/4x/api.html

(2) Multer --Express官方推出的,用于multipart/form-data请求数据处理的中间件 在线文档: <a href="https://github.com/expressjs/multer/blob/master/doc/README-zh-cn.md">https://github.com/expressjs/multer/blob/master/doc/README-zh-cn.md</a>

# 4.4 云存储解决方案-阿里云OSS

为了能够解决海量数据存储与弹性扩容,我们在十次方项目中采用云存储的解决方案-阿里云OSS。

## 4.4.1 准备工作

- (1) 申请阿里云账号并完成实名认证: 可以使用我们之前发短信用的阿里云账号。
- (2) 开通OSS: 登录阿里云官网。将鼠标移至产品找到并单击对象存储OSS打开OSS产品详情页面。在OSS产品详情页中的单击立即开通。开通服务后,在OSS产品详情页面单击管理控制台直接进入OSS管理控制台界面。您也可以单击位于官网首页右上方菜单栏的控制台,进入阿里云管理控制台首页,然后单击左侧的对象存储OSS菜单进入OSS管理控制台界面。





#### (3) 创建存储空间

新建Bucket,命名为tensquare,读写权限为公共读





## 4.4.2 代码编写

#### (1) 安装ali-oss

cnpm install ali-oss --save
cnpm install co --save

## (2) 修改file-upload-demo-master的server.js



```
var co = require('co');
var OSS = require('ali-oss');
var client = new OSS({
   accessKeyId: 'LTAIWaEERTRWSD2',
   accessKeySecret: 'PznrHXxYvTcADAFFDDDJnoAokJ0NSWEWF',
   endpoint: 'oss-cn-beijing.aliyuncs.com',
   bucket: 'tensquare'
});
```

```
app.post('/upload', upload.single('img'), (req, res) => {

    // 没有附带文件
    if (!req.file) {
        res.json({ ok: false });
        return;
    }

    co(function* () {
        var stream = fs.createReadStream(req.file.path);
        var result = yield client.putStream(req.file.originalname, stream);
        console.log("result:"+result);

        res.json({ ok: true , info: result.url})
    }).catch(function (err) {
        console.log(err);
    });
});
```

co: 已同步的方式调用异步的代码 配合yield关键字使用,将异步结果直接返回。