前端登陆功能

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同卫校首结	O.A

目标任务

- 登录页面的展示
- 用户名密码的判断
- 登录成功页面的跳转

相关知识点

- Element 的 Button、Input 组件的使用
- Router 和子 Router 的使用
- Vue 的 Class 绑定
- Vue 的事件处理
- Vue 的 router 的使用

思路分析

● 登录页面的展示

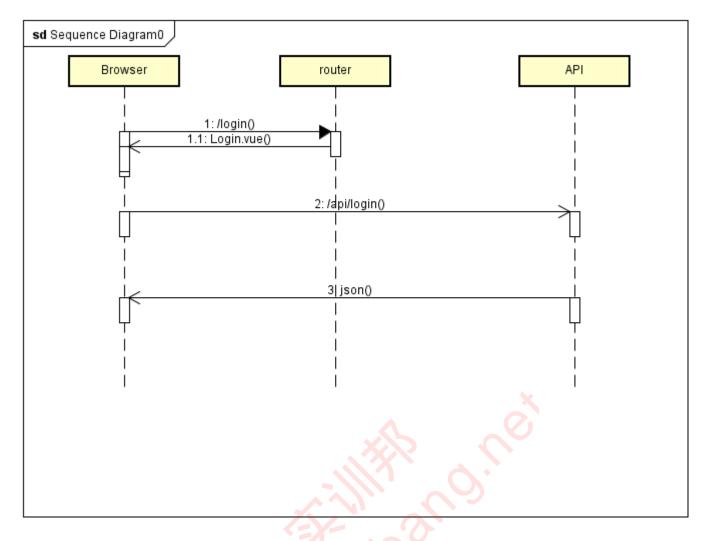
后台 API:

/api/login

前台 router:

/login

功能流程图:



API 接口:

url:/api/login

method: post

逻辑:

1. 进入页面,展示基本元素

/login 进入 Login.vue

2. 异步请求数据

通过 Login.vue 页面发起请求 (/api/login) ,并接收 json 数据

3. 渲染数据或者提示信息

处理返回的 json 数据进行页面的数据渲染

4. 跳转到/home/courselist 页面

If(后台响应返回:成功){

参数:

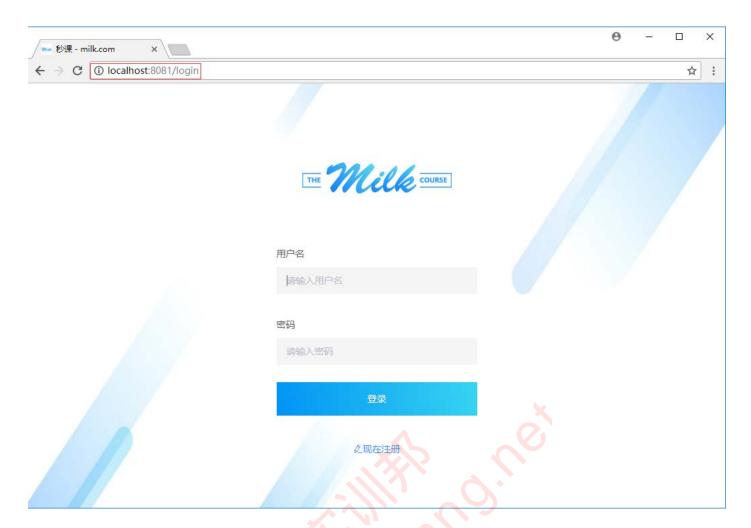
参数名	类型	是否必须	说明
username	String	Y	用户名
password	String	Υ	密码

返回值:

参数名	类型	是否必须	说明
code	Int N	Υ	200 为成功
	The state of the s		500***为失败
message	String	Υ	成功或失败的消息内容
data	object	N	

编码步骤

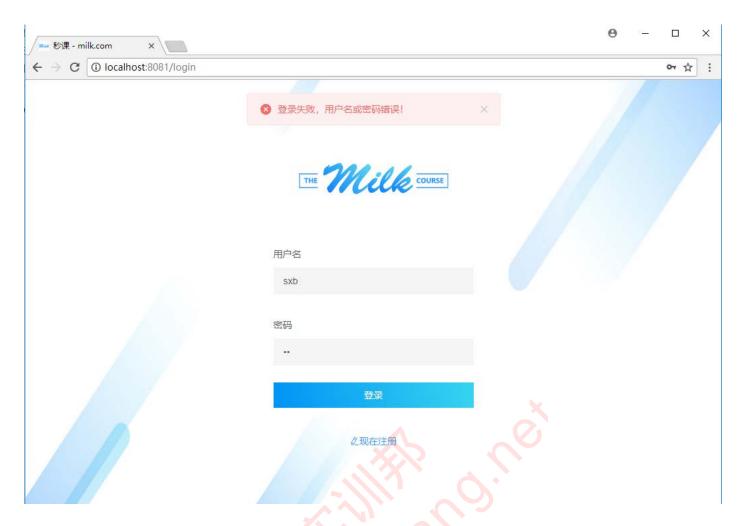
● 效果图



没有启动后端项目,提示登录失败



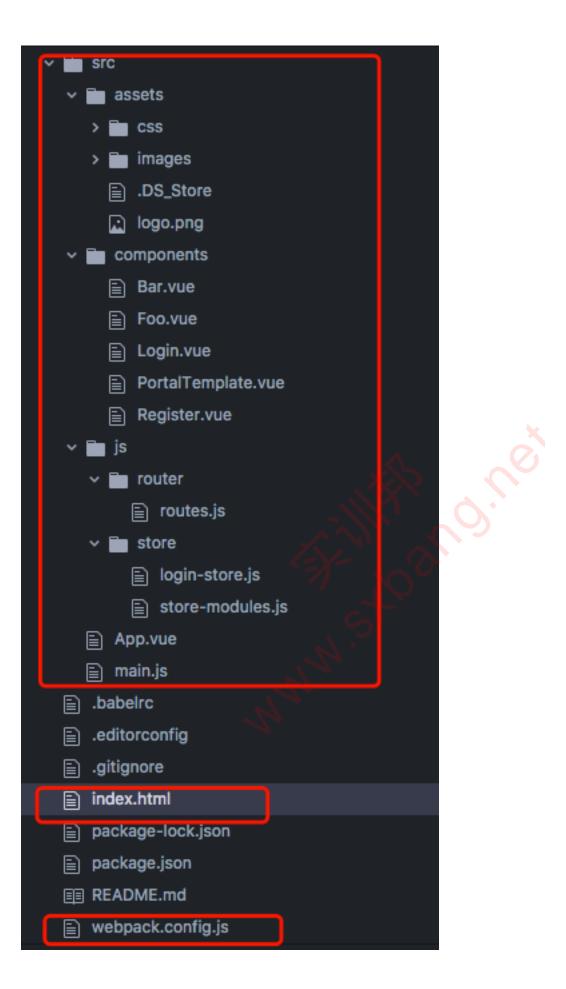
密码输入错误,提示登录失败



启动后端项目并且用户名和密码都填写正确跳转到课程列表并提示登录成功



● 最终目录结构



1. 第三方组件安装

- vue-router: npm install vue-router -d
- element-ui: npm install element-ui -d
- axios: npm install axios -d
- vue-axios: npm install vue-axios –d
- qs: npm install qs –d
- vuex: npm install vuex –d

2. 第三方组件其他资料

- vue-router: https://router.vuejs.org/zh/guide/#html
- element-ui: http://element-cn.eleme.io/#/zh-CN/component/installation
- axios: https://github.com/axios/axios
- vue-axios: https://www.npmjs.com/package/vue-axios
- qs: https://www.npmjs.com/package/qs
- vuex: https://vuex.vuejs.org/zh/

3. vue-router 基本使用

App.vue <router-link>

```
<div id="app">
<hl>Hello App!</hl>
<!-- 使用 router-link 组件来导航. -->
<!-- 通过传入 `to` 属性指定链接. -->
<!-- 不outer-link 默认会被渲染成一个 `<a>` 标签 -->
<router-link to="/foo">Go to Foo</router-link>
<router-link to="/bar">Go to Bar</router-link>
<!-- 需要一些其他业务时 -->
<button @click="gotoByUrl('/foo')">Go to Foo</button>
<button @click="gotoByUrl('/bar')">Go to Bar</button>
```

main.js

```
// 0. 如果使用模块化机制编程,导入 Vue 和 VueRouter,要调用 Vue.use(VueRouter)
// 1. 定义 (路由) 组件。
// 可以从其他文件 import 进来
const Foo = { template: '<div>foo</div>' }
const Bar = { template: '<div>bar</div>' }
// 2. 定义路由
// 每个路由应该映射一个组件。 其中"component" 可以是
// 通过 Vue.extend() 创建的组件构造器,
// 或者,只是一个组件配置对象。
// 我们晚点再讨论嵌套路由。
const routes = [
 { path: '/foo', component: Foo },
 { path: '/bar', component: Bar }
]
// 3. 创建 router 实例, 然后传 `routes` 配置
// 你还可以传别的配置参数,不过先这么简单着吧。
const router = new VueRouter({
```

```
routes // (缩写) 相当于 routes: routes
})

// 4. 创建和挂载根实例。

// 记得要通过 router 配置参数注入路由,

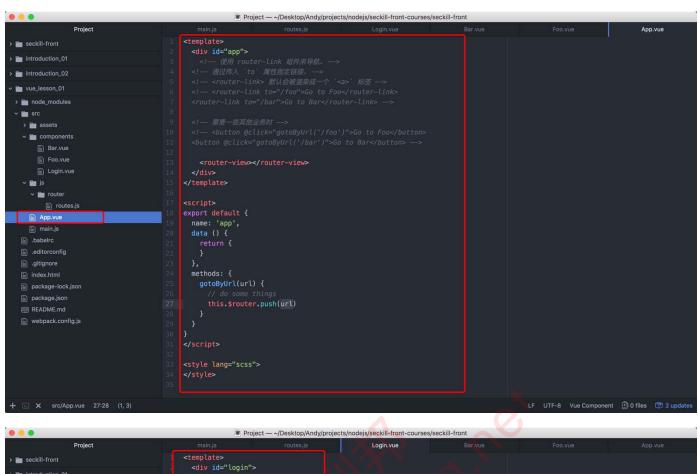
// 从而让整个应用都有路由功能

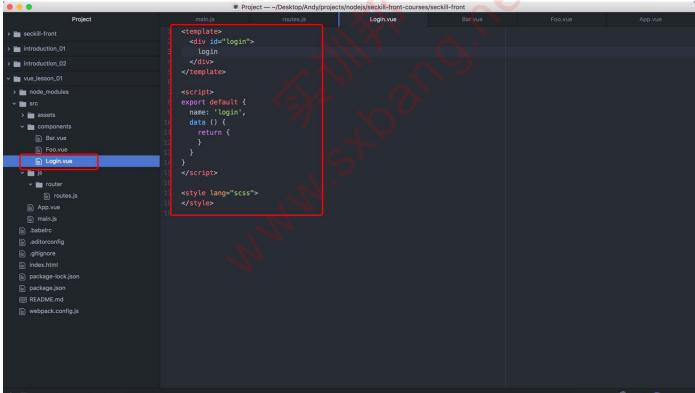
const app = new Vue({
  router
}).$mount('#app')
```

4. 使用 Vue-router 实现登录页面跳转

```
AndyZhengdeMacBook-Pro:vue_lesson_01 andyzheng$ npm install vue-router -d
npm info it worked if it ends with ok
npm info using npm@5.8.0
npm info using node@v8.11.1
npm http fetch GET 304 https://registry.npm.taobao.org/vue-router 302ms (from cache)
npm info lifecycle vue-router@3.0.1~preinstall: vue-router@3.0.1
npm info linkStuff vue-router@3.0.1
npm info lifecycle vue-router@3.0.1~install: vue-router@3.0.1
npm info lifecycle vue-router@3.0.1~postinstall: vue-router@3.0.1
npm info lifecycle undefined~preshrinkwrap: undefined
npm info lifecycle undefined~shrinkwrap: undefined
npm info lifecycle undefined~postshrinkwrap: undefined
+ vue-router@3.0.1
added 1 package from 1 contributor in 5.665s
npm info ok
AndyZhengdeMacBook-Pro:vue_lesson_01 andyzheng$
```







```
■ routes.js — ~/Desktop/Andy/projects/nodejs/vue-introduction/vue_lesson_01
                                                                                                             routes.is
                                                                    import Login from '../../components/Login' import Bar from '../../components/Bar'
                                                                    export default [
                                                                       xport default:
{ path: '/', component: Login },
  { path: '/login', component: Login },
  { path: '/bar', component: Bar },
  { path: '/foo', component: Foo }
v isrc
  > massets
     components
        Bar.vue
        Login.vue
      v 🛅 router
  gitignore
  package-lock.json
  package.json
 README.md
  webpack.config.is
```

5. 使用 element-ui 完成登录页面布局

```
import Vue from 'vue'
import App from './App.vue'
import VueRouter from 'vue-router'
import Element from 'element-ui'

// import css
import 'element-ui/lib/theme-chalk/index.css'

// import Login from './components/Login'
// import Bar from './components/Bar'
// import Foo from './components/Foo'

// import js
import routes from './js/router/routes'

// vue.use(VueRouter)
// vue.use(Element)
```

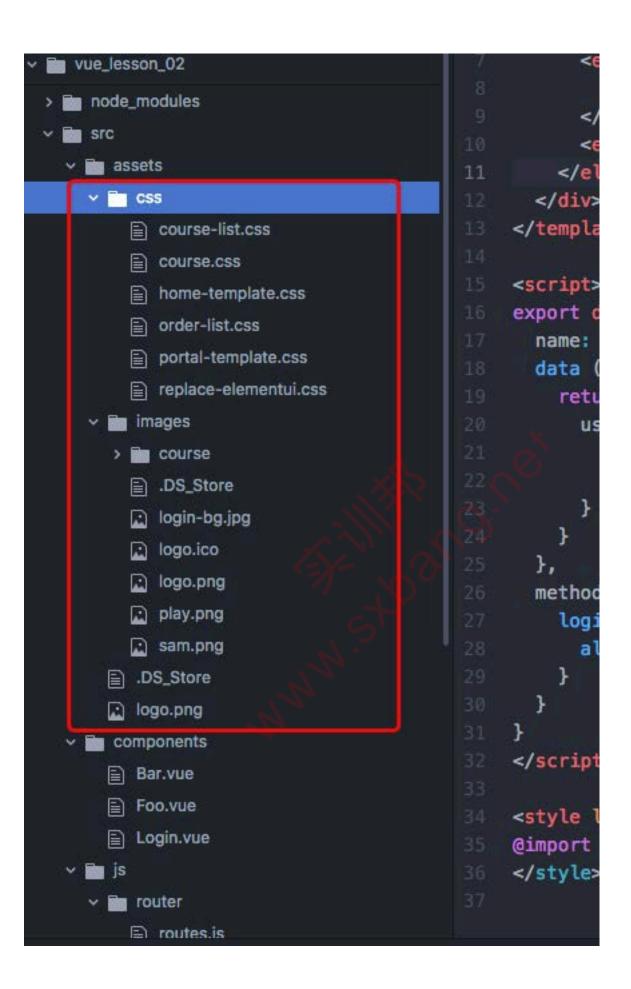
```
Failed to compile.

./node_modules/element-ui/lib/theme-chalk/fonts/element-icons.ttf
Module parse failed: Unexpected character '' (1:0)
You may need an appropriate loader to handle this file type.
(Source code omitted for this binary file)
@ ./node_modules/css-loader!./node_modules/element-ui/lib/theme-chalk/index.css 7:411-447
@ ./node_modules/element-ui/lib/theme-chalk/index.css
@ ./src/main.js
@ multi (webpack)-dev-server/client?http://localhost:8080 webpack/hot/dev-server ./src/main.js
```

出现以上错误时,说明下图配置未做

```
webpack.config.js — ~/Desktop/Andy/projects/nodejs/vue-introduction/vue_lesson_02
seckill-front
                                                                    'css-loader',
                                                                    'sass-loader'
                                                                  'sass': [
> node_modules
                                                                    'sass-loader?indentedSyntax'
∨ 🛅 src
  v 🛅 assets
     logo.png
                                                            test: /\.js$/,
loader: 'babel-loader',
exclude: /node_modules/
  v 🛅 js
    v 🛅 router
       routes.js
    App.vue
                                                            loader: 'file-loader',
    main.js
                                                            options: {
  a .babelrc
                                                              name: '[name].[ext]?[hash]'
  editorconfig
  gitignore
                                                     resolve: {
   alias: {
 README.md
 webpack.config.js
                                                        historyApiFallback: true,
                                                        noInfo: true,
overlay: true
```

做一个简单的登录表单



```
Login.vue
  <div id="login">
   <el-form label-position="top" label-width="80px" :model="user">
     <el-form-item label="用户名">
       <el-input v-model="user.username" placeholder="请输入用户名" ></el-input>
     <el-form-item label="密码">
       <el-input type="password" v-model="user.password" placeholder="清输入密码" @keypress.enter.native="login" ></el-input>
     <el-button type="primary" @click="login">登录</el-button>
</template>
<script>
 name: 'login',
       username: '',
       password: "
  methods: {
<style lang="scss">
@import '../assets/css/portal-template.css'
```

完成登录功能UI布局

```
App.vue
</template>
<script>
export default {
 name: 'app',
<style lang="scss">
@import './assets/css/replace-elementui.css';
html {
 height: 100%;
 margin: 0;
 padding: 0;
 height: 100%;
 margin: 0;
 padding: 0;
 font-family:"PingFang SC","Helvetica Neue","Hiragino Sans GB","Segoe UI","Microsoft YaHei","微软雅黑",sans-serif;
#app {
 width: 100%;
 height: 100%;
 display: flex;
 flex-direction: column;
 justify-content: center;
 align-items: center;
 text-decoration: none;
</style>
```

```
@import './assets/css/replace-elementui.css';
html {
  height: 100%;
  margin: 0;
  padding: 0;
}
body {
  height: 100%;
  margin: 0;
  padding: 0;
  font-family : "PingFang SC", "Helvetica Neue", "Hiragino Sans GB", "Segoe UI", "Microsoft YaHei", "微
软雅黑",sans-serif;
}
#app {
  width: 100%;
  height: 100%;
  display: flex;
  flex-direction: column;
```

```
justify-content: center;
align-items: center;
}
a {
  text-decoration: none;
}
```

```
Login.vue
 <div id="portal-template">
 <img class="portal-logo" src="../assets/images/logo.png" alt="秒杀logo"/>
   <div id="login">
     <el-form label-position="top" label-width="80px" :model="user">
       <el-form-item label="用户名">
         <el-input v-model="user.username" placeholder="请输入用户名" ></el-input>
       <el-form-item label="密码">
         <el-input type="password" v-model="user.password" placeholder="清輸入密码" @keypress.enter.native="login" ></el-input:
       <el-button type="primary" class="submit-btn" @click="login">登录</el-button>
     </el-form>
</div>
</template>
<script>
 name: 'login',
      username: '',
       password: ''
  methods: {
```

添加表单验证

```
Project — ~/Desktop/Andy/projects/nodejs/seckill-front-courses/seckill-front
                                                                                           Login.vue — vue_lesson_02/src/compone.
seckill-front
                                         <div id="portal-template">
> introduction_01
                                          <img class="portal-logo" src="../assets/images/logo.png" alt="秒杀logo"/>
> introduction_02
                                            vue_lesson_01
vue_lesson_02
                                              <el-form-item label="密码" prop="password">
v 🛅 src
                                                <el-input type="password" v-model="user.password" placeholder="请输入密码" @keypress.enter.native="login('userValid')'
  > massets

→ □ components

     Bar.vue
     Login.vue
   III JS
                                         data () {
  a.gitignore
                                              password: 14
  package-lock.json
  package.json
                                          rules: {
username: [
  README.md
  webpack.config.js
                                              { required: true, message: '用户名不允许为空', trigger: 'blur' }
```

```
Login.vue — vue_lesson_02/src/compone...
       username: ",
       password: "
    rules: {
     username: [
       { required: true, message: '用户名不允许为空', trigger: 'blur' }
     password: [
       { required: true, message: '密码不允许为空', trigger: 'blur' }
 methods: {
   login(refName) {
     var self = this;
     this.$refs[refName].validate((valid) => {
       if (valid) {
         alert('通过');
</script>
<style lang="scss">
@import '../assets/css/portal-template.css'
</style>
```



6. 使用 Axios 向后端服务器发送请求进行登录

```
| Project | Main | Main | Major | Nour | Production | Pouve | Mathematical | Pouve | Major | M
```

```
main.js
import App from './App.vue'
import VueRouter from 'vue-router'
import Element from 'element-ui'
import VueAxios from 'vue-axios'
import 'element-ui/lib/theme-chalk/index.css'
Vue.use(VueRouter)
Vue.use(Element)
Vue.use(VueAxios, Axios)
Vue.use(Qs)
Axios.defaults.baseURL = 'http://localhost:8080'
Axios.defaults.headers['Content-Type'] = 'application/x-www-form-urlencoded; charset=UTF-8'
Axios.defaults.withCredentials = true
const router = new VueRouter({
  mode: 'history',
  routes
new Vue({
  el: '#app',
  render: h => h(App)
```

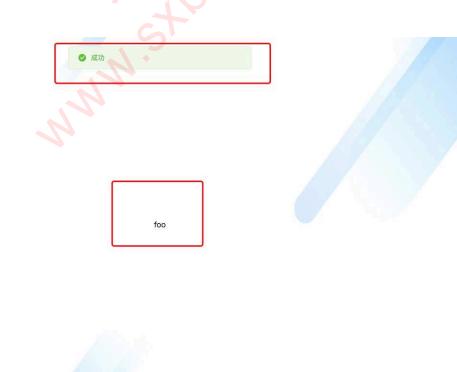
```
Login.vue — ~/Desktop/Andy/projects/nodejs/vue-introduction/vue_lesson_03
                                                  export default {
seckill-front
                                                    name: 'login',
> 💼 .idea
> 🛅 dist
> node_modules
                                                           username: '',
password: ''
v in src
 > assets

∨ moonents

     Login.Vue
                                                         this.axios.get('/api/login?username=andy&password=123456')
                                                         .then((response) => {
                                                         .catch((error) => {
  console.log('error:' + error);
      Register.Vue
  v 🛅 js
    > router
    v istore
        course-store.js
                                                         \label{this.axios.post('/api/login', qs.stringify({username: 'andy', password: '123456|'})). then((response) \Rightarrow \{
    > 🛅 util
 editorconfig
 agitignore
```

完成登录功能API请求处理

```
Login.vue
   <img class="portal-logo" src="../assets/images/logo.png" alt="秒杀logo"/>
     <el-form label-position="top" label-width="80px" :model="user" ref="userValid" :rules="rules">
       <el-form-item label="用户名" prop="username">
         <el-input v-model="user.username" placeholder="请输入用户名" ></el-input>
       <el-form-item label="密码" prop="password">
         <el-input type="password" v-model="user.password" placeholder="请输入密码" @keypress.enter.native="login('userValid')</pre>
       </el-form-item>
       <el-button type="primary" class="submit-btn" @click="login('userValid')"
登录</el-button>
</template>
 name: 'login',
       username: '',
       password: "
       username: [
        { required: true, message: '用户名不允许为空', trigger: 'blur' }
       password: [
         { required: true, message: '密码不允许为空', trigger: 'blur' }
```

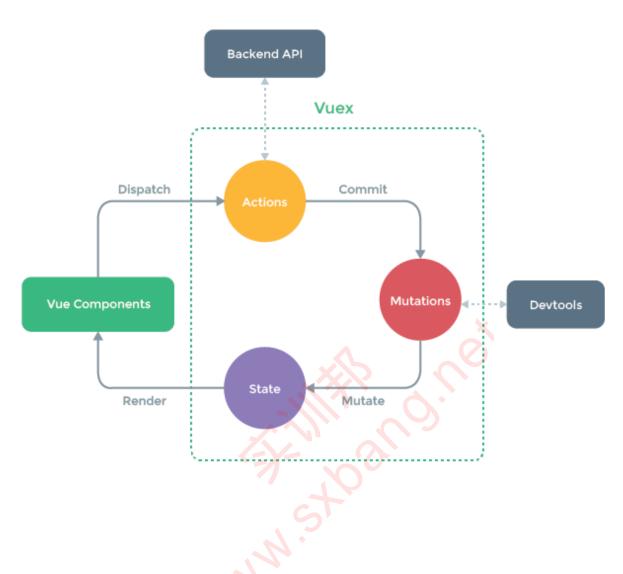






7. 使用 Vuex 管理登录状态

● vuex基本使用



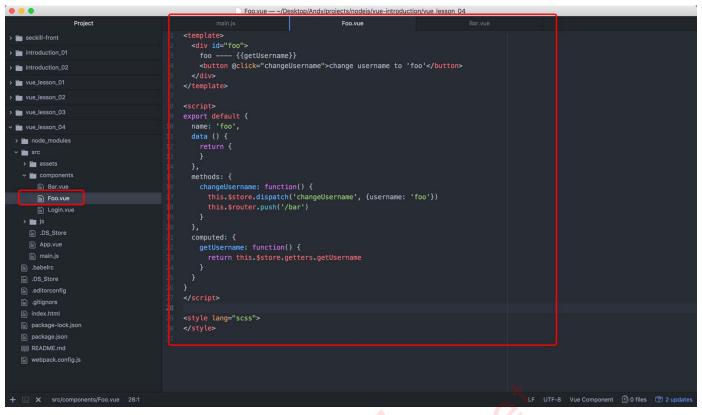
使用

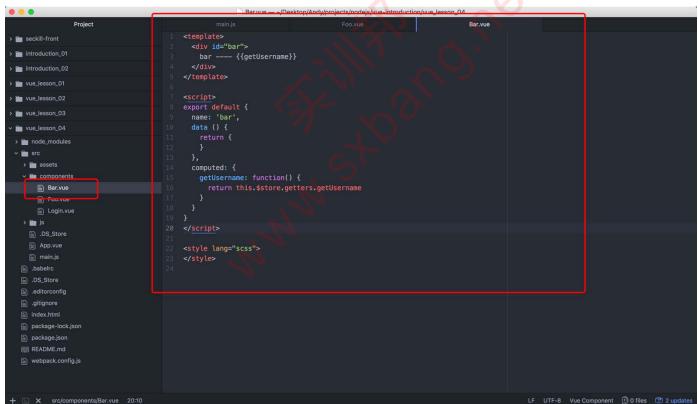
```
■ Project — ~/Desktop/Andy/projects/nodejs/seckill-front-courses/seckill-front
                                                                             main.is
                                                                 import Vue from 'vue'
import App from './App.vue'
import VueRouter from 'vue-router'
import Element from 'element-ui'
import Axios from 'axios'
seckill-front
> introduction_01
> introduction_02
> wue_lesson_01
                                                                 import VueAxios from 'vue-axios' import Qs from 'qs'
> vue_lesson_02
> vue_lesson_03
vue_lesson_04
                                                                 import 'element-ui/lib/theme-chalk/index.css'
 v 🛅 src
   > massets

→ m components

                                                                Vue.use(VueRouter)
Vue.use(Element)
        Bar.vue
         Foo.vue
         Login.vue
                                                                Vue.use(Vuex)
    > 📠 js
                                                                Axios.defaults.baseURL = 'http://localhost:8080'
Axios.defaults.headers['Content-Type'] = 'application/x-www-form-urlencoded;charset=UTF-8'
Axios.defaults.withCredentials = true
      App.vue
                                                                 const store = new Vuex.Store({
   agitignore
   package-lock.json
   package.json
   webpack.config.js
                                                                      changeUsername(context, payload) {
   context.commit('changeUsername', payload)
```

```
main.js
const store = new Vuex.Store({
    username: 'andy'
  mutations: {
    changeUsername(state, payload) {
      state.username = payload.username;
  actions: {
    changeUsername(context, payload) {
      context.commit('changeUsername', payload)
  getters: {
    getUsername(state) {
Vue.prototype.$store = store
const router = new VueRouter({
 mode: 'history',
  routes
new Vue({
  el: '#app',
  render: h => h(App)
```

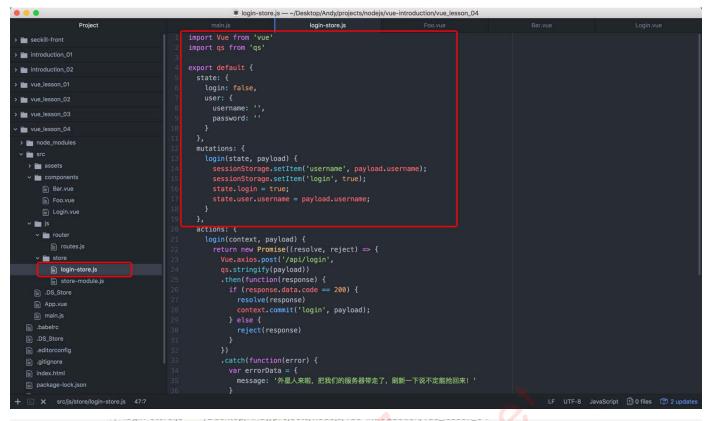




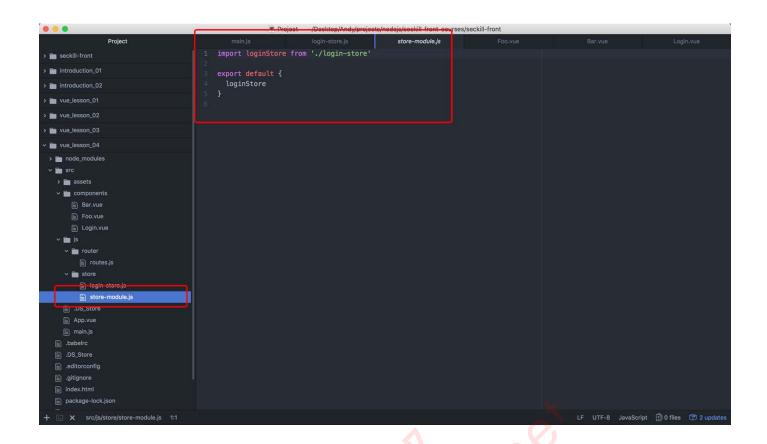


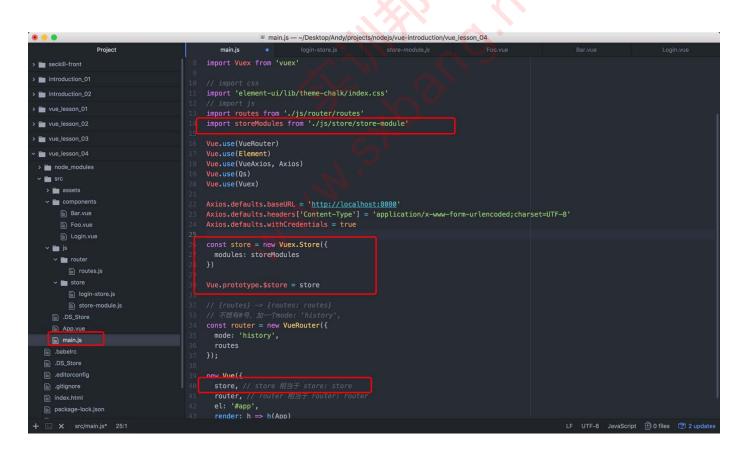


• 完成登录功能的状态管理

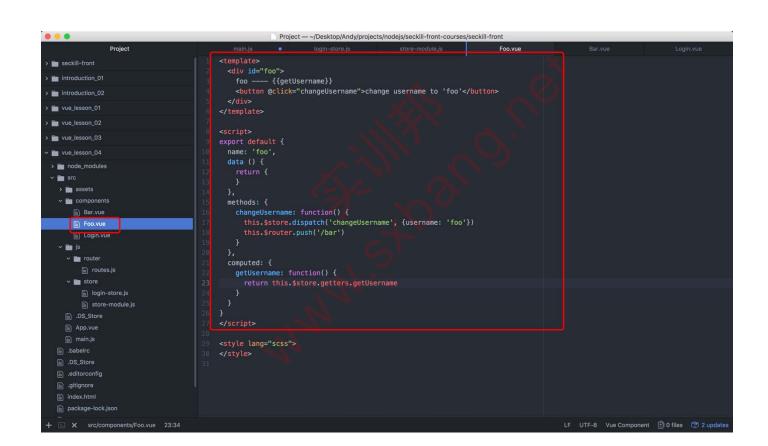


```
login-store.js
actions: {
  login(context, payload) {
    return new Promise((resolve, reject) => {
      Vue.axios.post('/api/login',
     qs.stringify(payload))
      .then(function(response) {
       if (response.data.code == 200) {
          resolve(response)
         context.commit('login', payload);
       } else {
         reject(response)
      .catch(function(error) {
       var errorData = {
         message: '外星人来啦,把我们的服务器带走了,刷新一下说不定能抢回来!'
       error.data = errorData
        reject(error)
getters: {
 getLoginState(state) {
  getUsername(state) {
```





```
login(refName) {
 var self = this;
 this.$refs[refName].validate((valid) => {
   if (valid) {
     this.$store.dispatch('login', {
       username: this.user.username,
       password: this.user.password
     })
      .then((response) => {
       self.$router.push('/foo')
       self.$message.success(response.data.message)
     })
     .catch((error) => {
       self.$message.error(error.data.message)
     })
 });
```



foo ---- change username to 'foo'





源码参考

N/A

回马枪总结

- 1. 导入组件,配置路由;
- 2. 使用 Element UI 进行布局;
- 3. 使用 Axios 请求 API 获取后台数据,与输入信息一致则跳转到课程列表。
- 4. 使用 Vuex 管理登录状态