

广大Java网友好，最近锋哥要录制一套权限系统实战课程，定位是应届生国内高级Java就业实战课程，希望大家喜欢，本套基于SpringBoot+SpringSecurity后端的实战基本版免费，开源，包括文档，感谢广大Java粉丝多年来的支持。本课程B站java1234连载更新中...敬请期待...

本套课程需要一定的Java基础，如果基础薄弱的，建议大家先把基础学习下，锋哥给下Java学习路线图，基础都免费的哦。

<http://www.java1234.vip/article/1>

前言

课程简介

本课程采用主流的技术栈实现，Mysql数据库，SpringBoot2+Mybatis Plus后端，redis缓存，安全框架SpringSecurity，Vue3.2+Element Plus实现后台管理。基于JWT技术实现前后端分离。项目开发同时采用MybatisX插件生成代码，提高开发效率。

基于SpringSecurity实现了登录验证鉴权功能，用户管理，角色管理，权限管理。

高清视频+源码+配套文档获取



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本套课程的基本版高清视频+源码+配套文档

进本课程专属微信交流群



加上面锋哥微信，**java9579** 备用 **java8822**，备注暗号：**小爱爱**

即可进入微信小程序电商实战课程的专属技术交流群。

作者简介

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爆丑照，美颜后，依然很丑。

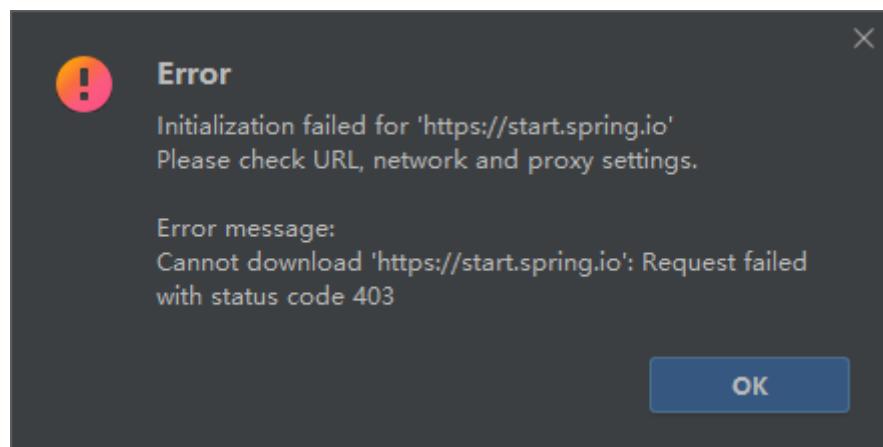


架构搭建

后端架构搭建

新建java1234-admin3项目

如果遇到报错



换成 <https://start.aliyun.com>

pom.xml修改：

```
<?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
  https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.3.2.RELEASE</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.java1234</groupId>
  <artifactId>java1234-admin</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>java1234-admin</name>
  <description>java1234-admin</description>
  <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-devtools</artifactId>
      <scope>runtime</scope>
      <optional>true</optional>
    </dependency>

    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
    </dependency>
  </dependencies>

```

```
        <scope>runtime</scope>
    </dependency>

    <!-- 连接池 -->
    <dependency>
        <groupId>com.alibaba</groupId>
        <artifactId>druid</artifactId>
        <version>1.1.10</version>
    </dependency>
    <!-- mybatis-plus -->
    <dependency>
        <groupId>com.baomidou</groupId>
        <artifactId>mybatis-plus-boot-starter</artifactId>
        <version>3.3.2</version>
    </dependency>
    <dependency>
        <groupId>com.baomidou</groupId>
        <artifactId>mybatis-plus-boot-starter</artifactId>
        <version>3.3.2</version>
    </dependency>
    <dependency>
        <groupId>com.alibaba</groupId>
        <artifactId>fastjson</artifactId>
        <version>1.2.40</version>
    </dependency>

    <!-- JWT -->
    <dependency>
        <groupId>com.auth0</groupId>
        <artifactId>java-jwt</artifactId>
        <version>3.2.0</version>
    </dependency>
    <dependency>
        <groupId>io.jsonwebtoken</groupId>
        <artifactId>jjwt</artifactId>
        <version>0.9.1</version>
    </dependency>
    <dependency>
        <groupId>commons-io</groupId>
        <artifactId>commons-io</artifactId>
        <version>2.5</version>
    </dependency>

    <dependency>
        <groupId>org.projectlombok</groupId>
        <artifactId>lombok</artifactId>
        <optional>true</optional>
    </dependency>

    <!-- spring boot redis 缓存引入 -->
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-data-redis</artifactId>
    </dependency>
    <!-- lettuce pool 缓存连接池 -->
    <dependency>
```

```

        <groupId>org.apache.commons</groupId>
        <artifactId>commons-pool2</artifactId>
    </dependency>

    <!-- hutool工具类-->
    <dependency>
        <groupId>cn.hutool</groupId>
        <artifactId>hutool-all</artifactId>
        <version>5.3.3</version>
    </dependency>

</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
            <version>2.3.2.RELEASE</version>
        </plugin>
    </plugins>
</build>

</project>

```

新建application.yml

```

server:
  port: 80
  servlet:
    context-path: /

spring:
  datasource:
    type: com.alibaba.druid.pool.DruidDataSource
    driver-class-name: com.mysql.cj.jdbc.Driver
    url: jdbc:mysql://localhost:3306/db_admin3?serverTimezone=Asia/Shanghai
    username: root
    password: 123456
  redis: # redis配置
    host: 127.0.0.1 # IP
    port: 6379 # 端口
    password: # 密码
    connect-timeout: 10s # 连接超时时间
  lettuce: # lettuce redis客户端配置
    pool: # 连接池配置
      max-active: 8 # 连接池最大连接数（使用负值表示没有限制） 默认 8
      max-wait: 200s # 连接池最大阻塞等待时间（使用负值表示没有限制） 默认 -1
      max-idle: 8 # 连接池中的最大空闲连接 默认 8
      min-idle: 0 # 连接池中的最小空闲连接 默认 0

```

```

mybatis-plus:
  global-config:
    db-config:
      id-type: auto
  configuration:
    map-underscore-to-camel-case: true
    auto-mapping-behavior: full
    log-impl: org.apache.ibatis.logging.stdout.StdoutImpl
  mapper-locations: classpath:mapper/*.xml

```

新建数据库db_admin3

新建用户表sys_user

表名称: sys_user 引擎: InnoDB
 数据库: db_admin 字符集: utf8
 核对: utf8_general_ci

列名	数据类型	长度	默认	主键?	非空?	Unsigned	自增?	Zerofill?	注释
id	bigint	20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	用户ID
username	varchar	100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	用户名
password	varchar	100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	密码
avatar	varchar	255	default.jpg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	用户头像
email	varchar	100	''	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	用户邮箱
phonenumber	varchar	11	''	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	手机号码
login_date	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	最后登录时间
status	char	1	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	帐号状态 (0正常 1停用)
create_time	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	创建时间
update_time	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	更新时间
remark	varchar	500		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	备注

```

CREATE TABLE `sys_user` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '用户ID',
  `username` varchar(100) DEFAULT NULL COMMENT '用户名',
  `password` varchar(100) DEFAULT NULL COMMENT '密码',
  `avatar` varchar(255) DEFAULT 'default.jpg' COMMENT '用户头像',
  `email` varchar(100) DEFAULT '' COMMENT '用户邮箱',
  `phonenumber` varchar(11) DEFAULT '' COMMENT '手机号码',
  `login_date` datetime DEFAULT NULL COMMENT '最后登录时间',
  `status` char(1) DEFAULT '0' COMMENT '帐号状态 (0正常 1停用)',
  `create_time` datetime DEFAULT NULL COMMENT '创建时间',
  `update_time` datetime DEFAULT NULL COMMENT '更新时间',
  `remark` varchar(500) DEFAULT NULL COMMENT '备注',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=31 DEFAULT CHARSET=utf8;

/*Data for the table `sys_user` */

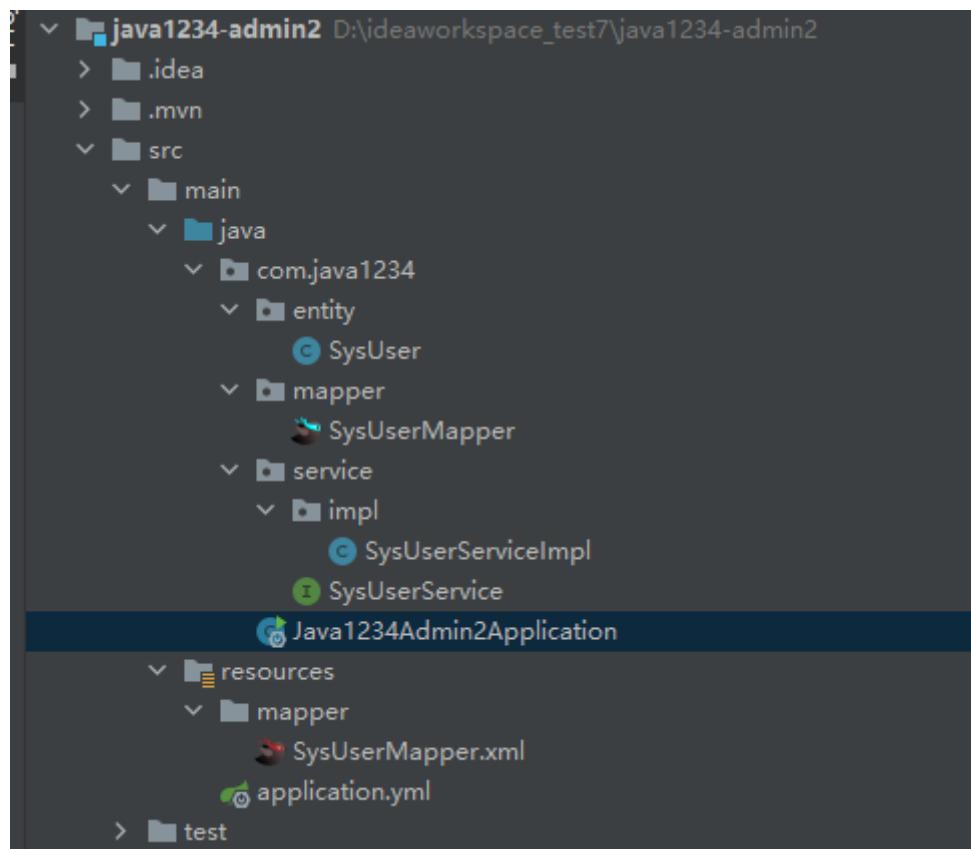
```

```

insert into
`sys_user`(`id`, `username`, `password`, `avatar`, `email`, `phonenumer`, `login_date
`, `status`, `create_time`, `update_time`, `remark`) values
(1, 'java1234', '$2a$10$Kib4zuvhTzg3I1CoqJfd0unuY9G9ysI7cfbhyT3fi7k7Z/4pr3bGW', '20
220727112556000000325.jpg', 'caofeng4017@126.com', '18862857417', '2022-08-29
22:10:52', '0', '2022-06-09 08:47:52', '2022-06-22 08:47:54', '备注'),
(2, 'common', '$2a$10$tiArwm0GxChyEP5k0JGzsouzyY15iKA.ZTl8s2aj3hay1KAfpwf1.', '222.
jpg', '', '', '2022-08-22 21:34:39', '0', NULL, NULL, NULL),
(3, 'test', '$2a$10$tiArwm0GxChyEP5k0JGzsouzyY15iKA.ZTl8s2aj3hay1KAfpwf1.', '333.jp
g', '', '', '2022-07-24 17:36:07', '0', NULL, NULL, NULL),
(4, '1', '$2a$10$ID0Fx7oMsFFmX9hvkmYy7eJteH8pBaxXro1X9DEMP5sbM.Z6Co55m', 'default.j
pg', '', '', NULL, '1', NULL, NULL, NULL),
(5, '2', NULL, 'default.jpg', '', '', NULL, '1', NULL, NULL, NULL),
(15, 'fdsfs', '$2a$10$AQVcp4hQ7REC5o7ztvnI7ex.sJdcYY3d1x2jm5cfrcCoMZMPacfpi', 'defa
ult.jpg', 'fdfa4@qq.com', '18862851414', '2022-08-02 02:22:45', '1', '2022-08-02
02:21:24', '2022-08-01 18:23:16', 'fdfds4'),
(28, 'sdfss2', '$2a$10$7anJxwVmefi0XAk64vrzYuOqeeImYJUQnoBrtKP9pLTGTWO2CXQ/y', 'def
ault.jpg', 'dfds3@qq.com', '18862857413', NULL, '1', '2022-08-07 00:42:46', '2022-08-
06 16:43:04', 'ddd33'),
(29, 'ccc', '$2a$10$7cbwevWDW09Hh3qbJrvTHON0E/DLYxxnIZpxZei0jY4ChfQbJuhi.', '202208
29080150000000341.jpg', '3242@qq.com', '18862584120', '2022-08-29
19:52:27', '0', '2022-08-29 17:04:58', NULL, 'xxx'),
(30, 'ccc666', '$2a$10$Tmw5VCM/k2vb837AZDYHQoqE3gPirZKevxLsh/ozndpTSjdWABqaK', '202
20829100454000000771.jpg', 'fdafds@qq.com', '18865259845', '2022-08-29
22:05:18', '0', '2022-08-29 22:00:39', NULL, 'ccc');

```

使用MybatisX插件，生成代码



启动类修改

```
package com.java1234;

import org.mybatis.spring.annotation.MapperScan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
@MapperScan("com.java1234.mapper")
public class Java1234AdminApplication {

    public static void main(String[] args) { SpringApplication.run(Java1234AdminApplication.class, args); }

}
```

```
@MapperScan("com.java1234.mapper")
```

写一个测试Controller类

```
@RestController
@RequestMapping("/test")
public class TestController {

    @Autowired
    private SysUserService sysUserService;

    @GetMapping("/user/list")
    public R userList(){
        Map<String, Object> resultMap=new HashMap<>();
        List<SysUser> userList = sysUserService.list();
        resultMap.put("userList", userList);
        return R.ok(resultMap);
    }

}
```

浏览器输入: <http://localhost/test/user/list>

```
□ {obj} JSON 2
  |- Num code : 200
  |- [arr] userList : 9
    □ {obj} 0 11
      |- Num id : 1
      |- "str" username : java1234
      |- "str" password : $2a$10$Kib4zuVhTzg3I1CoqJfd0unuY9G9ysI7cfhyT3fi7k7Z/4pr3bGW
      |- "str" avatar : 20220727112556000000325.jpg
      |- "str" email : caofeng4017@126.com
      |- "str" phononenumber : 18862857417
      |- "str" loginDate : 2022-08-29T14:10:52.000+00:00
      |- "str" status : 0
      |- "str" createTime : 2022-06-09T00:47:52.000+00:00
      |- "str" updateTime : 2022-06-22T00:47:54.000+00:00
      |- "str" remark : 备注
    □ {obj} 1 11
      |- Num id : 2
      |- "str" username : common
      |- "str" password : $2a$10$tiArwm0GxChyEP5k0JGzsOuzyY15IKA.ZTl8S2aj3haYlKAfpwfl.
      |- "str" avatar : 222.jpg
      |- "str" email :
      |- "str" phononenumber :
      |- "str" loginDate : 2022-08-22T13:34:39.000+00:00
      |- "str" status : 0
      |- Null createTime : null
      |- Null updateTime : null
      |- Null remark : null
    □ {obj} 2 11
      |- Num id : 3
      |- "str" username : test
      |- "str" password : $2a$10$tiArwm0GxChyEP5k0JGzsOuzyY15IKA.ZTl8S2aj3haYlKAfpwfl.
      |- "str" avatar : 333.jpg
      |- "str" email :
      |- "str" phononenumber :
      |- "str" loginDate : 2022-07-24T09:36:07.000+00:00
      |- "str" status : 0
      |- Null createTime : null
      |- Null updateTime : null
      |- Null remark : null
    □ {obj} 3 11
      |- Num id : 4
      |- "str" username : 1
      |- "str" password : $2a$10$ID0Fx7oMsFFmX9hVkmYy7eJteH8pBaXXro1X9DEMP5sbM.Z6Co55m
      |- "str" avatar : default.jpg
      |- "str" email :
      |- "str" phononenumber :
      |- Null loginDate : null
      |- "str" status : 1
      |- Null createTime : null
      |- Null updateTime : null
      |- Null remark : null
    □ {obj} 4 11
```

说明OK。

前端架构搭建

我们用vue ui来搭建vue项目；

vue ui是一个可视化图形界面，方便你去创建、更新和管理vue项目，包括下载router, vuex, axios, elementui等插件，配置好一些属性以及依赖关系，方便我们使用，我个人第一次接触它就感觉非常非常非常智能和强大。

1, 安装node

```
C:\Users\java1234>node -v  
v16.13.2  
  
C:\Users\java1234>npm -v  
8.4.0  
  
C:\Users\java1234>
```

2, 安装Vue Cli

vue-cli 是一个官方发布 vue.js 项目脚手架，使用 vue-cli 可以快速创建 vue 项目。

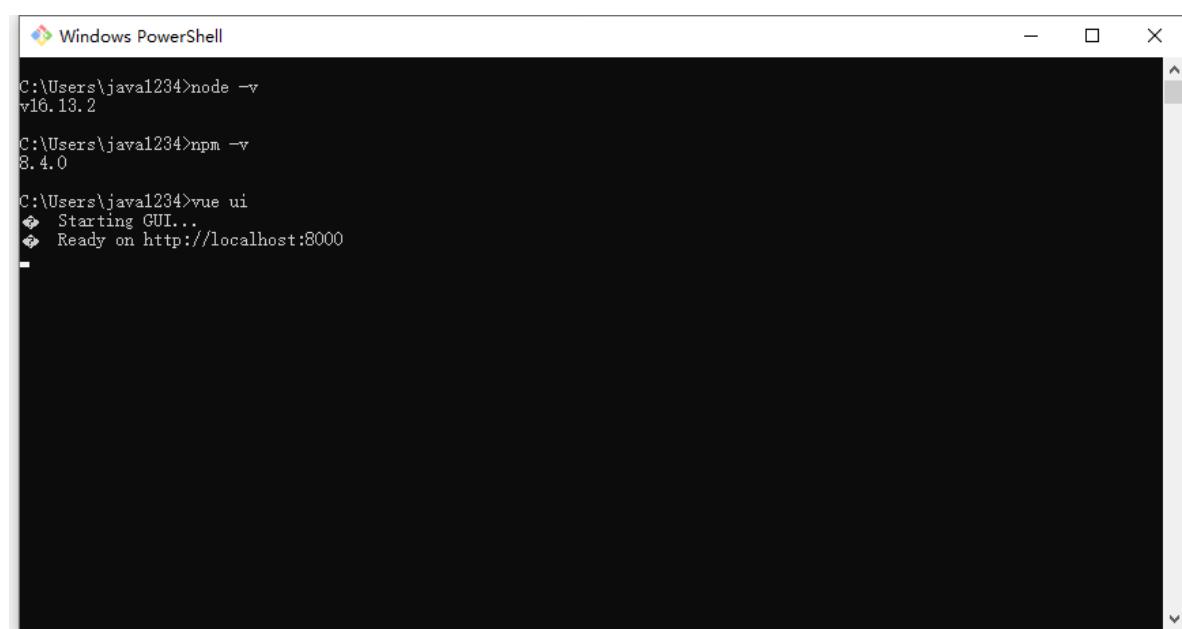
因为vue ui是在Vue CLI基础上封装的

```
npm install -g @vue/cli
```

3, vue ui搭建vue项目

命令行窗口执行：

```
vue ui
```



```
Windows PowerShell  
C:\Users\java1234>node -v  
v16.13.2  
C:\Users\java1234>npm -v  
8.4.0  
C:\Users\java1234>vue ui  
⇒ Starting GUI...  
⇒ Ready on http://localhost:8000
```



4, 安装axios element-plus

This screenshot shows the 'Dependency Management' page of the dashboard. The sidebar is identical to the previous dashboard. The main content area is titled '项目依赖' (Project Dependencies). It lists several packages under '运行依赖' (Runtime Dependencies):

名称	版本	要求	最新	状态	操作
axios	版本 0.27.2	要求 0.27.2	最新 0.27.2	已安装	查看详情
core-js	版本 3.25.0	要求 3.25.0	最新 3.25.0	已安装	查看详情
element-plus	版本 2.2.15	要求 2.2.15	最新 2.2.15	已安装	查看详情
vue	版本 3.2.38	要求 3.2.38	最新 3.2.38	已安装	查看详情
vue-router	版本 4.1.5	要求 4.1.5	最新 4.1.5	已安装	查看详情
vux	版本 4.0.2	要求 4.0.2	最新 4.0.2	已安装	查看详情

The 'element-plus' package is highlighted with a red oval. A search bar and a '+ 安装依赖' (Install Dependency) button are at the top right.

element-plus官网：

<https://element-plus.gitee.io/>

5, 项目测试

导入elementplus以及样式

```
import ElementPlus from 'element-plus'  
import 'element-plus/dist/index.css'  
  
createApp(App).use(store).use(router).use(ElementPlus).mount('#app')
```

← → ⌂ ⓘ localhost:8080/#/about

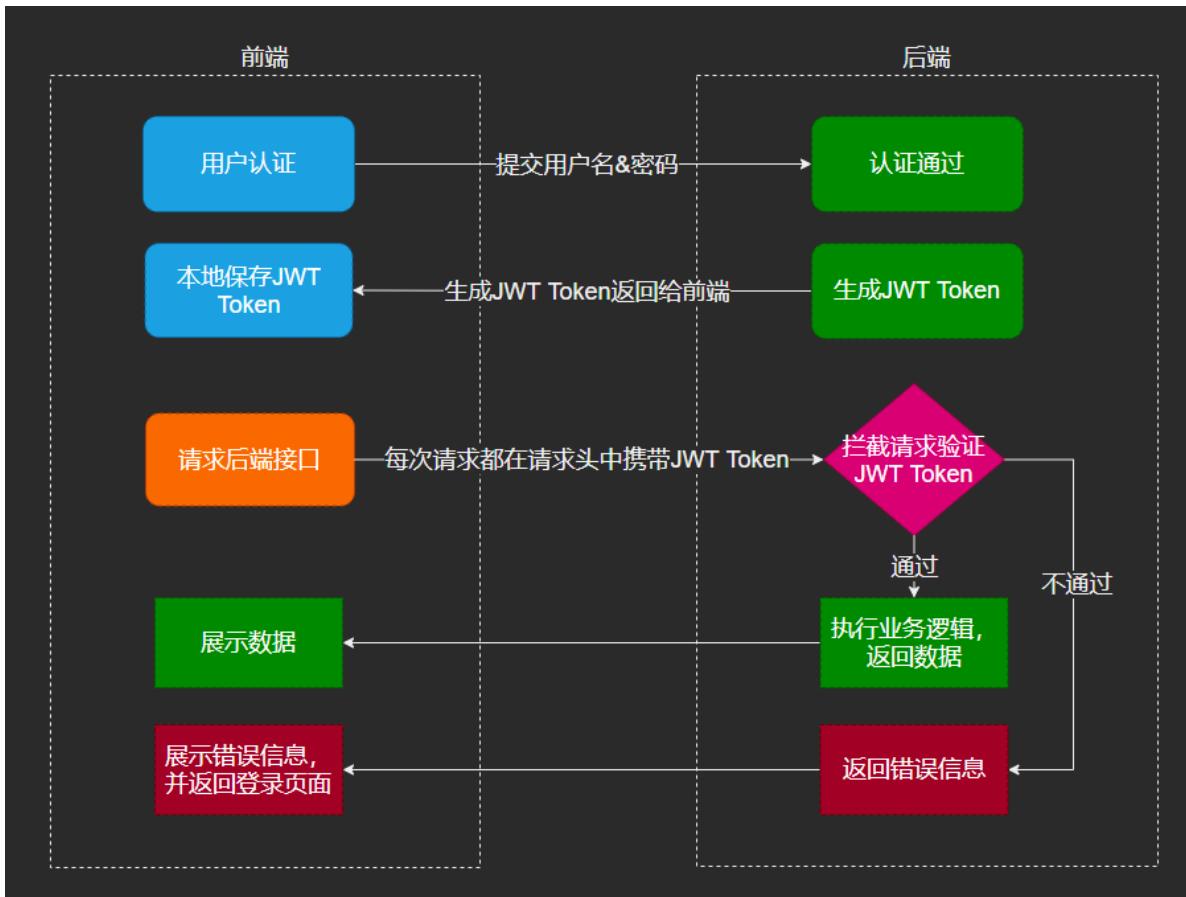
[Home](#) | [About](#)



引入JWT前后端交互

Json web token (JWT), 是为了在网络应用环境间传递声明而执行的一种基于JSON的开放标准 ((RFC 7519);

JWT就是一段字符串，用来进行用户身份认证的凭证，该字符串分成三段【头部、载荷、签证】



后端接口测试：

```

@RestController
@RequestMapping("/test")
public class TestController {

    @Autowired
    private SysUserService sysUserService;

    @GetMapping("/user/list")
    public R userList(@RequestHeader(required = false) String token){
        if(StringUtils.isNotEmpty(token)){
            Map<String, Object> resutMap=new HashMap<>();
            List<SysUser> userList = sysUserService.list();
            resutMap.put("userList",userList);
            return R.ok(resutMap);
        }else{
            return R.error(401,"没有权限访问");
        }
    }

    @GetMapping("/login")
    public R login(){
        String token= JwtUtils.genJwtToken("java1234");
        return R.ok().put("token",token);
    }
}

```

前端测试：

```
<template>

<el-button type="primary" @click="handleLogin">测试登录</el-button>
<el-button type="danger" @click="handleUserList">测试获取用户列表信息</el-button>

</template>
<script setup>
import requestUtil from '@/util/request'
import store from '@/store'

const handleLogin=async()=>{
  let result=await requestUtil.get("test/login");
  let data=result.data;
  if(data.code==200){
    const token=data.token;
    console.log("登录成功: token="+token);
    store.commit('SET_TOKEN',token);
  }else{
    console.log("登录出错! ")
  }
}

const handleUserList=async ()=>{
  let result=await requestUtil.get("test/user/list");
  let data=result.data;
  if(data.code==200){
    const userList=data.userList;
    console.log("用户列表信息: userList="+userList);
  }else{
    console.log("出错! ")
  }
}

</script>
<style>

</style>
```

跨越问题：

```
① Access to XMLHttpRequest at 'http://localhost/test/login' from origin 'http://localhost:8080' has been blocked :8080/#/:1
by CORS policy: Response to preflight request doesn't pass access control check: No 'Access-Control-Allow-Origin' header is
present on the requested resource.
② GET http://localhost/test/login net::ERR_FAILED xhr.js?1a5c:220 ⓘ
③ Uncaught (in promise)
AxiosError {message: 'Network Error', name: 'AxiosError', code: 'ERR_NETWORK', config: {...}, request: XMLHttpRequest, ...}
>
```

```
@Configuration
public class WebAppConfigurer implements WebMvcConfigurer {

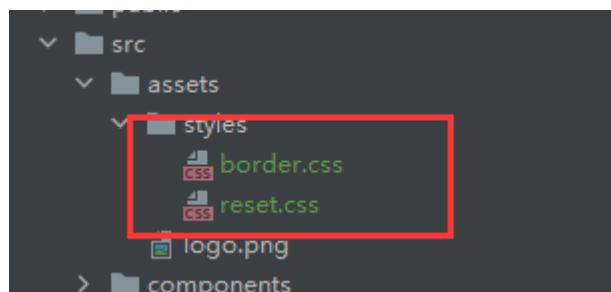
    @Override
    public void addCorsMappings(CorsRegistry registry) {
        registry.addMapping("/**")
            .allowedOrigins("*")
            .allowCredentials(true)
            .allowedMethods("GET", "HEAD", "POST", "PUT",
"DELETE", "OPTIONS")
            .maxAge(3600);
    }

}
```

登录功能实现

前端静态登录页面实现

引入全局样式：



main.js导入样式文件：

```
import '@/assets/styles/border.css'
import '@/assets/styles/reset.css'
```

加路由：

```
const routes = [
{
    path: '/login',
    name: 'login',
    component: () => import('../views/Login.vue')
}
]
```

App.vue

```
<template>
  <router-view/>
</template>
```

安装sass和sass-loader依赖

The screenshot shows the 'Run Dependencies' section of the npm package manager. It lists the following packages:

图标	名称	版本	要求	最新	状态	操作
axios	axios	版本 0.27.2	要求 0.27.2	最新 0.27.2	已安装	查看详情
core-js	core-js	版本 3.25.0	要求 3.25.0	最新 3.25.0	已安装	查看详情
element-plus	element-plus	版本 2.2.15	要求 2.2.16	最新 2.2.16	已安装	查看详情
sass	sass	版本 1.54.8	要求 1.54.8	最新 1.54.8	已安装	查看详情
sass-loader	sass-loader	版本 13.0.2	要求 13.0.2	最新 13.0.2	已安装	查看详情
vue	vue	版本 3.2.38	要求 3.2.38	最新 3.2.38	已安装	查看详情
vue-router	vue-router	版本 4.1.5	要求 4.1.5	最新 4.1.5	已安装	查看详情
vuex	vuex	版本 4.0.2	要求 4.0.2	最新 4.0.2	已安装	查看详情

Login.vue

```
<template>
<div class="login">

  <el-form ref="loginRef" :model="loginForm" :rules="loginRules" class="login-form">
    <h3 class="title">Java1234 Vue3 后台管理系统</h3>

    <el-form-item prop="username">
      <el-input
        type="text"
        size="large"
        auto-complete="off"
        placeholder="账号"
      >
        </el-input>
      </el-form-item>
      <el-form-item prop="password">
```

```
<el-input  
    type="password"  
    size="large"  
    auto-complete="off"  
    placeholder="密码"  
    @keyup.enter="handleLogin"  
>  
  
</el-input>  
</el-form-item>  
  
<el-checkbox style="margin:0px 0px 25px 0px;">记住密码</el-checkbox>  
<el-form-item style="width:100%;">  
    <el-button  
        size="large"  
        type="primary"  
        style="width:100%;"  
        @click.prevent="handleLogin">  
        <span>登 录</span>  
    </el-button>  
  
</el-form-item>  
</el-form>  
<!-- 底部 -->  
<div class="el-login-footer">  
    <span>Copyright © 2013-2022 <a href="http://www.java1234.vip"  
target="_blank">java1234.vip</a> 版权所有.</span>  
</div>  
</div>  
</template>  
  
<script setup>  
  
</script>  
  
<style lang="scss" scoped>  
a{  
    color:white  
}  
.login {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100%;  
    background-image: url("../assets/images/login-background.jpg");  
    background-size: cover;  
}  
.title {  
    margin: 0px auto 30px auto;  
    text-align: center;  
    color: #707070;  
}  
.login-form {
```

```
border-radius: 6px;
background: #ffffff;
width: 400px;
padding: 25px 25px 5px 25px;

.el-input {
  height: 40px;

  input {
    display: inline-block;
    height: 40px;
  }
}

.input-icon {
  height: 39px;
  width: 14px;
  margin-left: 0px;
}

.login-tip {
  font-size: 13px;
  text-align: center;
  color: #bfbfbf;
}

.login-code {
  width: 33%;
  height: 40px;
  float: right;
  img {
    cursor: pointer;
    vertical-align: middle;
  }
}

.el-login-footer {
  height: 40px;
  line-height: 40px;
  position: fixed;
  bottom: 0;
  width: 100%;
  text-align: center;
  color: #fff;
  font-family: Arial;
  font-size: 12px;
  letter-spacing: 1px;
}

.login-code-img {
  height: 40px;
  padding-left: 12px;
}

</style>
```

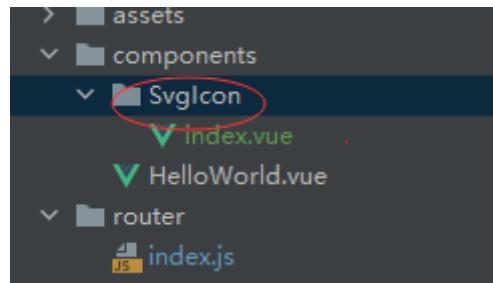
App.vue设置下全局样式：

```
<style>
html, body, #app{
  height: 100%;
}

.app-container{
  padding: 20px
}
</style>
```

自定义icon实现

component下新建SvgIcon目录，再新建index.vue 定义svg-icon组件



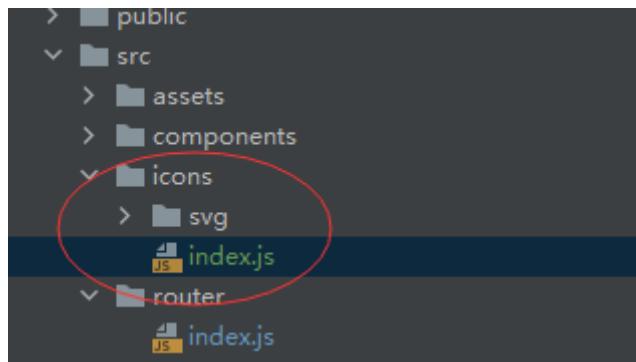
```
<template>
<svg class="svg-icon" aria-hidden="true">
  <use :xlink:href="iconName"></use>
</svg>
</template>

<script setup>
import { defineProps, computed } from 'vue'
const props = defineProps({
  icon: {
    type: String,
    required: true
  }
})

const iconName = computed(() => {
  return `#icon-${props.icon}`
})
</script>

<style lang="scss" scoped>
.svg-icon {
  width: 1em;
  height: 1em;
  vertical-align: -0.15em;
  fill: currentColor;
  overflow: hidden;
}
</style>
```

新建icons文件夹，放一个svg文件的文件夹目录，以及新建index.js，全局定义组件

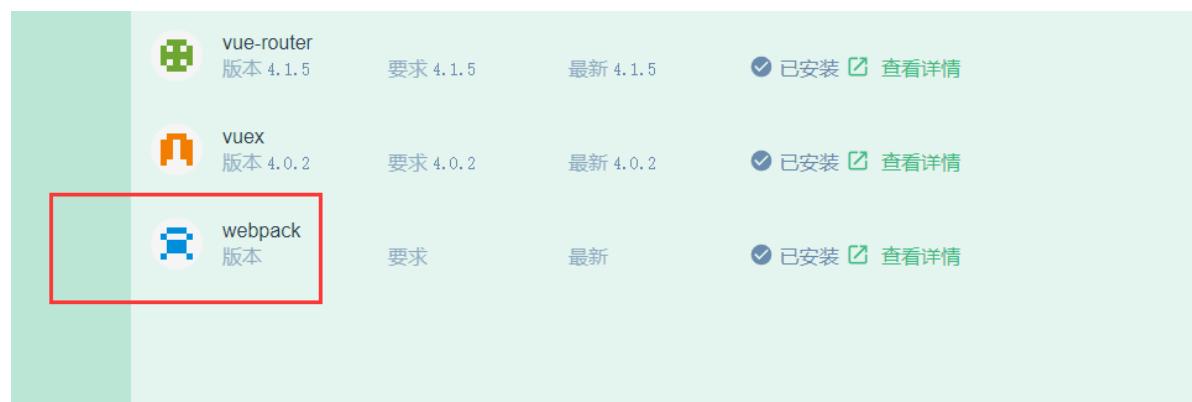


```
import SvgIcon from '@/components/SvgIcon'

const svgRequired = require.context('./svg', false, /\.svg$/)
svgRequired.keys().forEach((item) => svgRequired(item))

export default (app) => {
  app.component('svg-icon', SvgIcon)
}
```

安装依赖 webpack



安装依赖 svg-sprite-loader



vue.config.js

```
const webpack = require('webpack');

const path = require('path')
```

```
function resolve(dir) {
  return path.join(__dirname, dir)
}

module.exports = {
  lintOnSave: false,
}

chainWebpack(config) {
  // 设置 svg-sprite-loader
  // config 为 webpack 配置对象
  // config.module 表示创建一个具名规则，以后用来修改规则
  config.module
    // 规则
    .rule('svg')
    // 忽略
    .exclude.add(resolve('src/icons'))
    // 结束
    .end()
  // config.module 表示创建一个具名规则，以后用来修改规则
  config.module
    // 规则
    .rule('icons')
    // 正则，解析 .svg 格式文件
    .test(/\.svg$/)
    // 解析的文件
    .include.add(resolve('src/icons'))
    // 结束
    .end()
    // 新增了一个解析的loader
    .use('svg-sprite-loader')
    // 具体的loader
    .loader('svg-sprite-loader')
    // loader 的配置
    .options({
      symbolId: 'icon-[name]'
    })
    // 结束
    .end()
  config
    .plugin('ignore')
    .use(
      new webpack.ContextReplacementPlugin(/moment[/\]\]locale$/, /zh-cn$/)
    )
  config.module
    .rule('icons')
    .test(/\.svg$/)
    .include.add(resolve('src/icons'))
    .end()
    .use('svg-sprite-loader')
    .loader('svg-sprite-loader')
    .options({
      symbolId: 'icon-[name]'
    })
    .end()
  }
}
```

main.js修改：

```
import SvgIcon from '@/icons'

const app=createApp(App)
SvgIcon(app);

app.use(store)

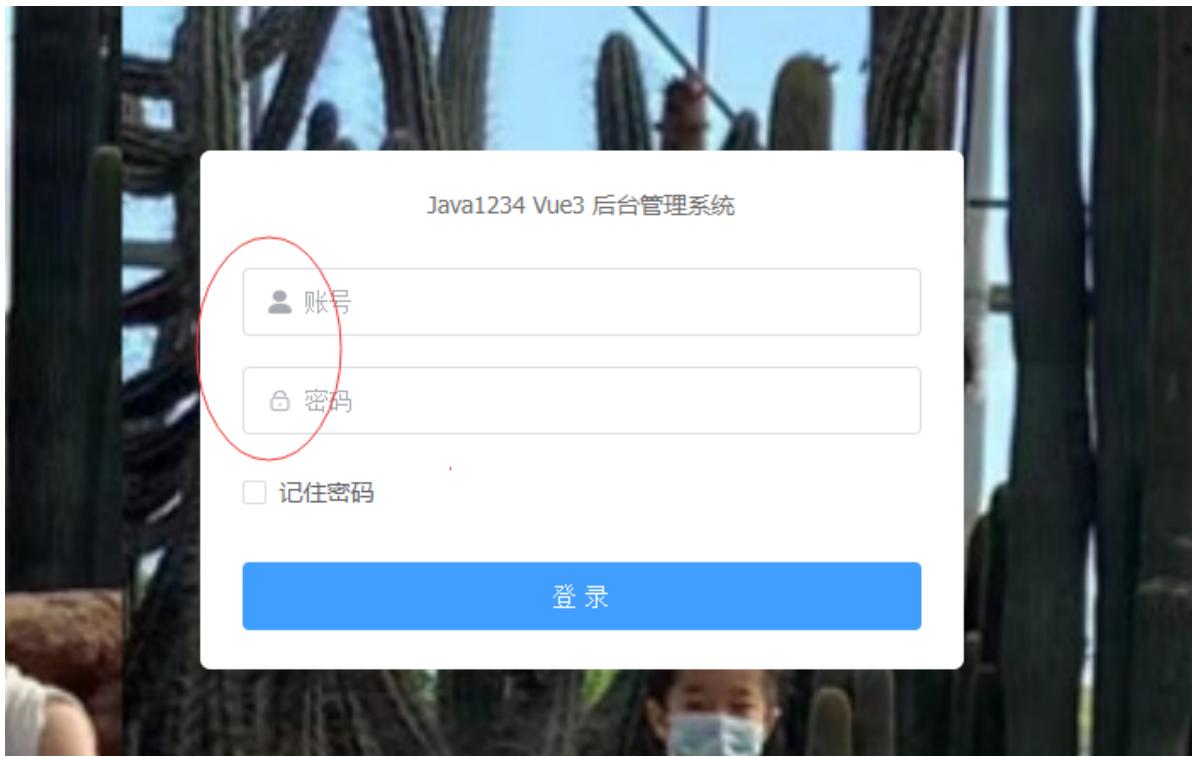
app.use(router)

app.use(ElementPlus)
app.mount('#app')
```

使用语法：

```
<template #prefix><svg-icon icon="user" /></template>
```

```
<el-form-item prop="username">
  <el-input
    type="text"
    size="large"
    auto-complete="off"
    placeholder="账号"
  >
    <template #prefix><svg-icon icon="user" /></template>
  </el-input>
</el-form-item>
```



SpringSecurity执行原理概述

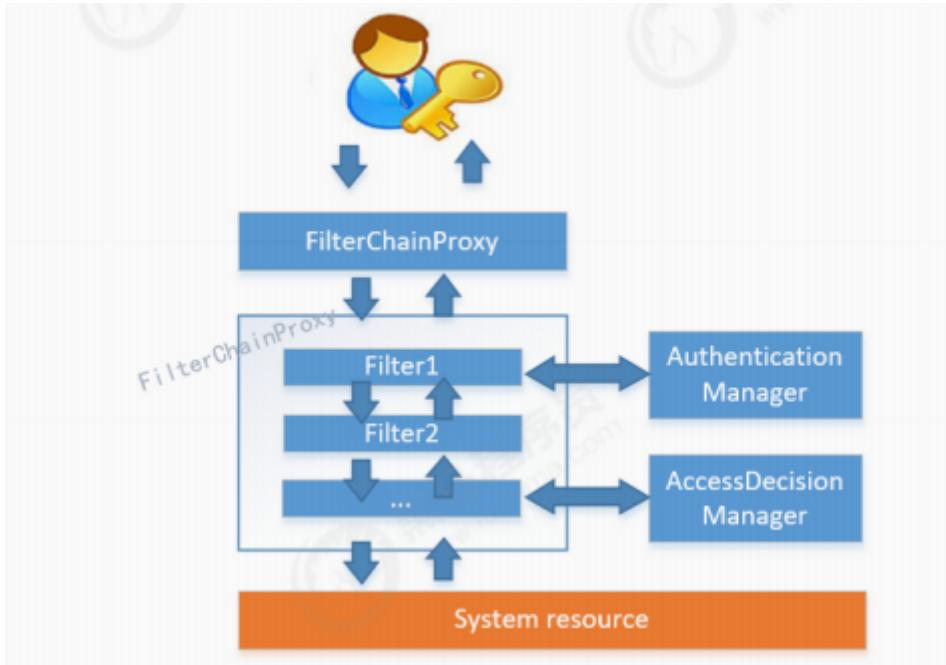
spring security的简单原理：

SpringSecurity有很多很多的拦截器，在执行流程里面主要有两个核心的拦截器

1，登陆验证拦截器**AuthenticationProcessingFilter**

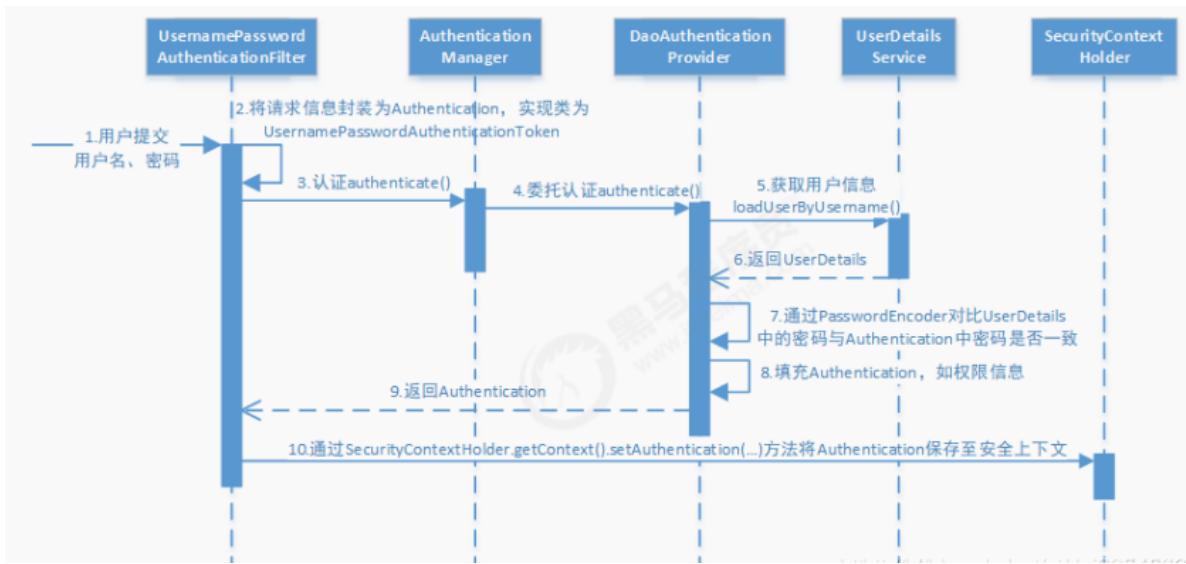
2，资源管理拦截器**AbstractSecurityInterceptor**

但拦截器里面的实现需要一些组件来实现，所以就有了**AuthenticationManager**认证管理器、**accessDecisionManager**决策管理器等组件来支撑。



FilterChainProxy是一个代理，真正起作用的是各个Filter，这些Filter作为Bean被Spring管理，是Spring Security核心，各有各的职责，不直接处理认证和授权，交由认证管理器和决策管理器处理！

大概流程

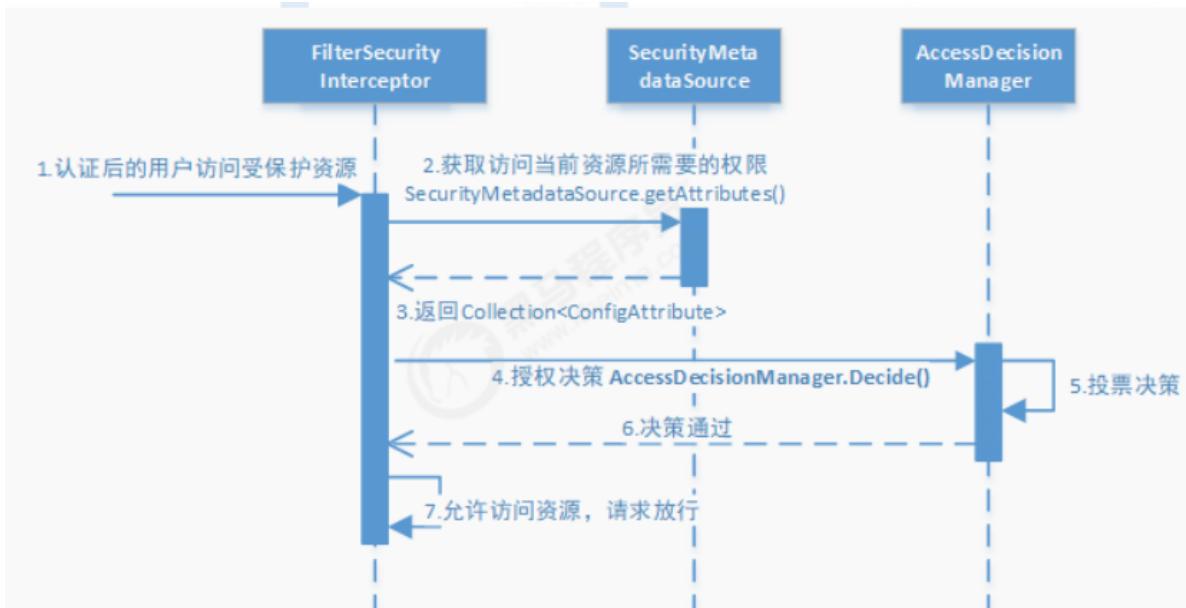


认证管理

流程图解读：

- 1、用户提交用户名、密码被SecurityFilterChain中的 UsernamePasswordAuthenticationFilter 过滤器获取到，封装为请求Authentication，通常情况下是UsernamePasswordAuthenticationToken这个实现类。
- 2、然后过滤器将Authentication提交至认证管理器（AuthenticationManager）进行认证。
- 3、认证成功后，AuthenticationManager 身份管理器返回一个被填充满了信息的（包括上面提到的权限信息，身份信息，细节信息，但密码通常会被移除）Authentication 实例。
- 4、SecurityContextHolder 安全上下文容器将第3步填充了信息的 Authentication，通过 SecurityContextHolder.getContext().setAuthentication(...)方法，设置到其中。可以看出 AuthenticationManager 接口（认证管理器）是认证相关的核心接口，也是发起认证的出发点，它的实现类为ProviderManager。而Spring Security支持多种认证方式，因此ProviderManager维护着一个 List 列表，存放多种认证方式，最终实际的认证工作是由 AuthenticationProvider完成的。咱们知道 web 表单的对应的AuthenticationProvider实现类为 DaoAuthenticationProvider，它的内部又维护着一个UserDetailsService负责UserDetails的获取。最终 AuthenticationProvider将UserDetails填充至 Authentication。

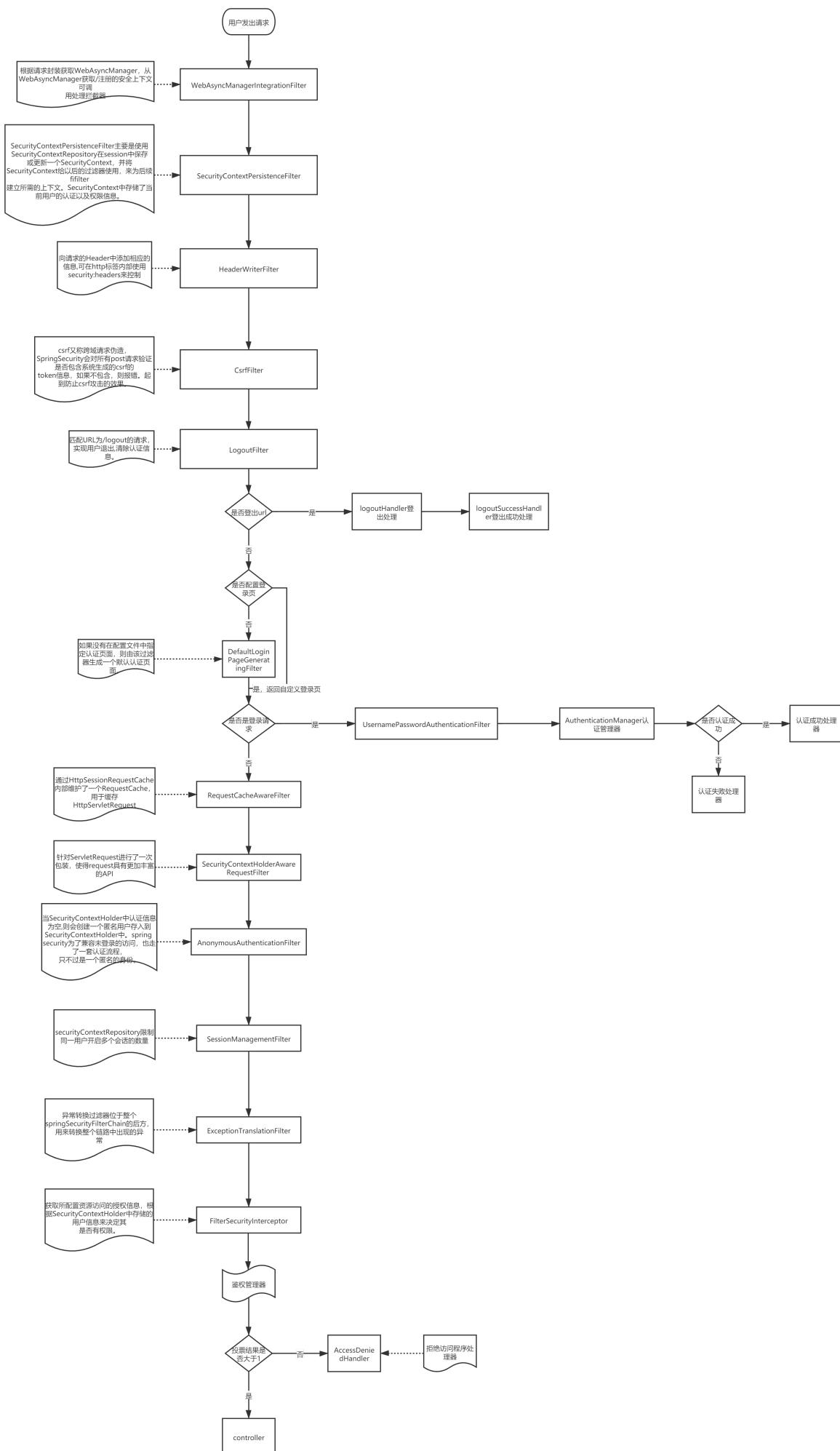
授权管理



访问资源（即授权管理），访问url时，会通过FilterSecurityInterceptor拦截器拦截，其中会调用SecurityMetadataSource的方法来获取被拦截url所需的全部权限，再调用授权管理器AccessDecisionManager，这个授权管理器会通过spring的全局缓存SecurityContextHolder获取用户的权限信息，还会获取被拦截的url和被拦截url所需的全部权限，然后根据所配的投票策略（有：一票决定，一票否定，少数服从多数等），如果权限足够，则决策通过，返回访问资源，请求放行，否则跳转到403页面、自定义页面。

转载自：https://blog.csdn.net/weixin_51542566/article/details/119705963

详细执行流程



项目整合SpringSecurity

pom.xml加入springsecurity依赖

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

SecurityConfig配置文件：

```
package com.java1234.config;

import org.springframework.context.annotation.Configuration;
import
org.springframework.security.config.annotation.authentication.builders.AuthenticationManagerBuilder;
import
org.springframework.security.config.annotation.method.configuration.EnableGlobalMethodSecurity;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
import org.springframework.security.config.http.SessionCreationPolicy;

/**
 * spring security配置
 * @author java1234_小锋（公众号：java1234）
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
@Configuration
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    private static final String URL_WHITELIST[] ={
        "/login",
        "/logout",
        "/captcha",
        "/password",
        "/image/**",
        "/test/**"
    } ;

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        // 开启跨域 和 csrf攻击 关闭
        http
            .cors()
            .and()
    }
}
```

```

    .csrf()
    .disable()

    // 登录配置
    .formLogin()
        //          .successHandler()
        //          .failureHandler()
    //          .and()
    //          .logout()
    //          .logoutSuccessHandler()

    // session禁用配置
    .and()
        .sessionManagement()
        .sessionCreationPolicy(SessionCreationPolicy.STATELESS)

    // 拦截规则配置
    .and()
        .authorizeRequests()
        .antMatchers(URL_WHITELIST).permitAll()
        .anyRequest().authenticated();

    // 异常处理器配置

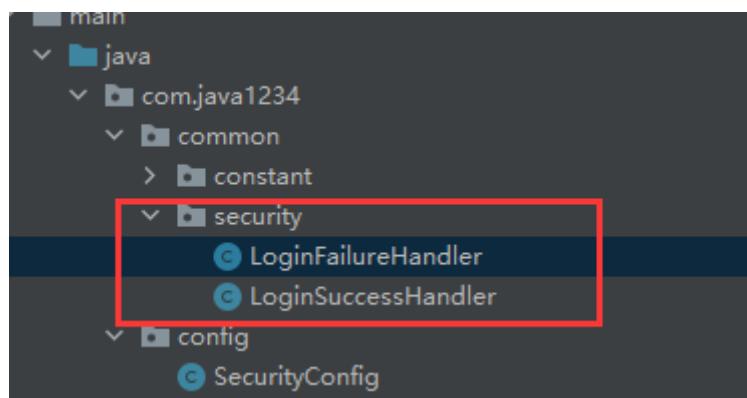
    // 自定义过滤器配置
}

@Override
protected void configure(AuthenticationManagerBuilder auth) throws Exception
{
    super.configure(auth);
}

```

重写登录成功和登录失败处理器

common下新建security包，再新建两个类，**LoginSuccessHandler**和**LoginFailureHandler**



```

@Component
public class LoginSuccessHandler implements AuthenticationSuccessHandler {

```

```
    @Override
    public void onAuthenticationSuccess(HttpServletRequest httpServletRequest,
    HttpServletResponse httpServletResponse, Authentication authentication) throws
    IOException, ServletException {
        httpServletResponse.setContentType("application/json;charset=UTF-8");
        ServletOutputStream outputStream =
        httpServletResponse.getOutputStream();

        String username="user";
        String token = JwtUtils.genJwtToken(username);

        outputStream.write(JSONUtil.toJsonStr(R.ok("登录成
功").put("authorization",token)).getBytes());
        outputStream.flush();
        outputStream.close();
    }
}
```

```
@Component
public class LoginFailureHandler implements AuthenticationFailureHandler {

    @Override
    public void onAuthenticationFailure(HttpServletRequest httpServletRequest,
    HttpServletResponse httpServletResponse, AuthenticationException e) throws
    IOException, ServletException {
        httpServletResponse.setContentType("application/json;charset=UTF-8");
        ServletOutputStream outputStream =
        httpServletResponse.getOutputStream();

        String message=e.getMessage();
        if(e instanceof BadCredentialsException){
            message="用户名或者密码错误!";
        }

        outputStream.write(JSONUtil.toJsonStr(R.error(message)).getBytes("UTF-
8"));

        outputStream.flush();
        outputStream.close();
    }
}
```

SecurityConfig注入这两个类对象，然后设置到自定义配置里面去

```
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Autowired
    private LoginSuccessHandler loginSuccessHandler;

    @Autowired
    private LoginFailureHandler loginFailureHandler;

    private static final String URL_WHITELIST[] ={
        "/login",
        "/logout",
        "/captcha",
        "/password",
        "/image/**",
        "/test/**"
    } ;

    @Override
    protected void configure(HttpSecurity http) throws Exception {
        // 开启跨域 和 csrf攻击 关闭
        http
            .cors()
            .and()
            .csrf()
            .disable()

        // 登录配置
        .formLogin()
            .successHandler(loginSuccessHandler)
            .failureHandler(loginFailureHandler)
            .and()
            .logout()
            .logoutSuccessHandler()
    }
}
```

前端安装qs依赖，用于url参数，把对象转成url字符串

The screenshot shows a list of installed npm packages:

- axios: 版本 0.27.2, 要求 0.27.2, 最新 0.27.2, 已安装
- core-js: 版本 3.25.0, 要求 3.25.0, 最新 3.25.0, 已安装
- element-plus: 版本 2.2.15, 要求 ▲ 2.2.16, 最新 ▲ 2.2.16, 已安装
- qs: 版本 6.11.0, 要求 6.11.0, 最新 6.11.0, 已安装
- sass: 版本 1.54.8, 要求 1.54.8, 最新 1.54.8, 已安装

```
<el-form ref="loginRef" :model="loginForm" :rules="loginRules" class="login-form">
  <h3 class="title">Java1234 Vue3 后台管理系统</h3>

  <el-form-item prop="username">
    <el-input
      v-model="loginForm.username"
      type="text"
      size="large"
      auto-complete="off"
      placeholder="账号"
    >
      <template #prefix><svg-icon icon="user" /></template>
    </el-input>
  </el-form-item>
  <el-form-item prop="password">
    <el-input
      v-model="loginForm.password"
      type="password"
      size="large"
      auto-complete="off"
      placeholder="密码"
      @keyup.enter="handleLogin"
    >
      <template #prefix><svg-icon icon="password" /></template>
    </el-input>
  </el-form-item>
```

```
<script setup>

import {ref} from "vue"
import requestUtil from '@/util/request'
import store from '@/store'
import {ElMessage} from 'element-plus'
import qs from 'qs'

const loginRef=ref(null);

const loginForm=ref({
  username:"",
  password:""
})

const loginRules = {
  username: [{ required: true, trigger: "blur", message: "请输入您的账号" }],
  password: [{ required: true, trigger: "blur", message: "请输入您的密码" }]
};

const handleLogin=()=>{
  loginRef.value.validate(async (valid)=>{
    if(valid){
      try{
        let result=await
        requestUtil.post("login?"+qs.stringify(loginForm.value))
        let data=result.data;
        if(data.code==200){
          const token = data.authorization;
        }
      }catch(error){
        ElMessage.error("登录失败，请检查账号或密码");
      }
    }
  })
}
```

```

        store.commit('SET_TOKEN', token);
    }else{
        ElMessage.error(data.msg)
    }
}catch(err){
    console.log("error:"+error);
    ElMessage.error("服务器出错, 请联系管理员!")
}
}else{
    console.log("验证失败")
}
})
}

</script>

```

用户登录SpringSecurity查库实现

security包下新建MyUserDetailServiceImpl

```

@Service
public class MyUserDetailServiceImpl implements UserDetailsService {

    @Autowired
    SysUserService sysUserService;

    @Override
    public UserDetails loadUserByUsername(String username) throws
UsernameNotFoundException {
        SysUser sysUser = sysUserService.getByUsername(username);
        if(sysUser==null){
            throw new UsernameNotFoundException("用户名或者密码错误!");
        }else if("1".equals(sysUser.getStatus())){
            throw new UserCountLockException("该用户账号已被封禁, 具体联系管理员!");
        }
        return new
User(sysUser.getUsername(),sysUser.getPassword(),getUserAuthority(sysUser.getId()));
    }

    private List<GrantedAuthority> getUserAuthority(Long id) {
        return new ArrayList<>();
    }
}

```

getByUsername实现:

```
@Service
public class SysUserServiceImpl extends ServiceImpl<SysUserMapper, SysUser>
    implements SysUserService{

    @Override
    public SysUser getByUsername(String username) {
        return getOne(new QueryWrapper<SysUser>().eq("username",username));
    }
}
```

SecurityConfig配置类里面配置下MyUserDetailServiceImpl

```
@Configuration
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
public class SecurityConfig extends WebSecurityConfigurerAdapter {

    @Autowired
    private LoginSuccessHandler loginSuccessHandler;

    @Autowired
    private LoginFailureHandler loginFailureHandler;

    @Autowired
    private MyUserDetailServiceImpl myUserDetailService;

    @Bean
    @Override
    protected void configure(AuthenticationManagerBuilder auth) throws Exception {
        auth.userDetailsService(myUserDetailService);
    }
}
```

配置下默认加密bean

```
@Bean
BCryptPasswordEncoder bCryptPasswordEncoder(){
    return new BCryptPasswordEncoder();
}
```

自定义异常UserCountLockException

```

public class UserCountLockException extends AuthenticationException {

    public UserCountLockException(String msg, Throwable t) {
        super(msg, t);
    }

    public UserCountLockException(String msg) {
        super(msg);
    }
}

```

全局异常GlobalExceptionHandler:

```

@Slf4j
@RestControllerAdvice
public class GlobalExceptionHandler {

    @ExceptionHandler(value = RuntimeException.class)
    public R handler(RuntimeException e){
        log.error("运行时异常: -----{}", e.getMessage());
        System.out.println("运行时异常: ");
        return R.error(e.getMessage());
    }

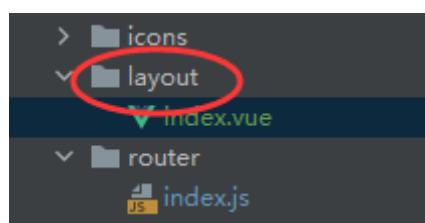
}

```

实现JWT认证过滤器

router配置，加下首页路由

```
{
  path: '/',
  name: '首页',
  component: () => import('../layout')
},
```



测试按钮

```

<template>
<el-button type="danger" @click="testHandler">测试接口</el-button>
</template>

<script setup>
import requestUtil from '@/util/request'

```

```

const testHandler=async ()=>{
    let result=await requestUtil.get("test/user/list");

}
</script>

<style scoped>

</style>

```

由于做了前后端分离配置，通过jwt生成token，所以我们要搞一个jwt自定义认证过滤器，来实现jwt token认证；

```

/**
 * jwt认证自定义过滤器
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
public class JwtAuthenticationFilter extends BasicAuthenticationFilter {

    @Autowired
    private SysUserService sysUserService;

    @Autowired
    private MyUserDetailsServiceImpl myUserDetailsService;

    private static final String URL_WHITELIST[] ={
        "/login",
        "/logout",
        "/captcha",
        "/password",
        "/image/**"
    } ;

    public JwtAuthenticationFilter(AuthenticationManager authenticationManager)
    {
        super(authenticationManager);
    }

    @Override
    protected void doFilterInternal(HttpServletRequest request,
HttpServletResponse response, FilterChain chain) throws IOException,
ServletException {
        String token=request.getHeader("token");
        System.out.println("请求url:"+request.getRequestURI());
        // 如果token是空或者url在白名单里 则放行 让后面的springsecurity认证过滤器去认证
        if(StringUtil.isEmpty(token) || new ArrayList<String>(Arrays.asList(URL_WHITELIST)).contains(request.getRequestURI())){
            chain.doFilter(request,response);
            return;
        }
        CheckResult checkResult = JwtUtils.validateJWT(token);
        if(!checkResult.isSuccess()){

```

```

        switch (checkResult.getErrCode()){
            case JwtConstant.JWT_ERRCODE_NULL: throw new JwtException("Token  
不存在");
            case JwtConstant.JWT_ERRCODE_FAIL: throw new JwtException("Token  
验证不通过");
            case JwtConstant.JWT_ERRCODE_EXPIRE: throw new  
JwtException("Token过期");
        }
    }

    Claims claims=JwtUtils.parseJWT(token);
    String username=claims.getSubject();
    SysUser sysUser = sysUserService.getByUsername(username);
    UsernamePasswordAuthenticationToken  
usernamePasswordAuthenticationToken=new  
UsernamePasswordAuthenticationToken(username,null,myUserDetailsService.getUserAut  
hority(sysUser.getId()));

    SecurityContextHolder.getContext().setAuthentication(usernamePasswordAuthentica  
tionToken);
    chain.doFilter(request,response);
}
}

```

SecurityConfig配置

```

@Bean
JwtAuthenticationFilter jwtAuthenticationFilter() throws Exception {
    JwtAuthenticationFilter jwtAuthenticationFilter=new  
JwtAuthenticationFilter(authenticationManager());
    return jwtAuthenticationFilter;
}

```

```

// 异常处理器配置

// 自定义过滤器配置
.and()
    .addFilter(jwtAuthenticationFilter());
}

```

实现JWT认证异常处理器

新建JwtAuthenticationEntryPoint

```

/**
 * jwt认证异常处理
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip

```

```

    * @company 南通小锋网络科技有限公司
    */
@Component
public class JwtAuthenticationEntryPoint implements AuthenticationEntryPoint {
    @Override
    public void commence(HttpServletRequest httpServletRequest,
    HttpServletResponse httpServletResponse, AuthenticationException e) throws
    IOException, ServletException {
        httpServletResponse.setContentType("application/json; charset=UTF-8");
        ServletOutputStream outputStream =
        httpServletResponse.getOutputStream();

        outputStream.write(JSONUtil.toJsonStr(R.error(HttpStatus.SC_UNAUTHORIZED, "认证失败, 请登录! ")).getBytes());
        outputStream.flush();
        outputStream.close();
    }
}

```

```

@Autowired
private JwtAuthenticationEntryPoint jwtAuthenticationEntryPoint;

```

```

// 异常处理器配置
.and() HttpSecurity
.exceptionHandling() ExceptionHandlerConfigurer<HttpSecurity>
.authenticationEntryPoint(jwtAuthenticationEntryPoint)

```

Name	Headers	Preview	Response	Initiator	Timing
□ list			1 {"msg": "认证失败, 请登录!", "code": 401}		
□ list					

实现自定义logout处理

默认logout请求实现是有状态的，返回到login请求页面；我们现在是前后端分离处理，所以需要自定义实现logout

新建JwtLogoutSuccessHandler

```

/**
 * 自定义Logout处理
 * @author java1234_小锋 (公众号: java1234)

```

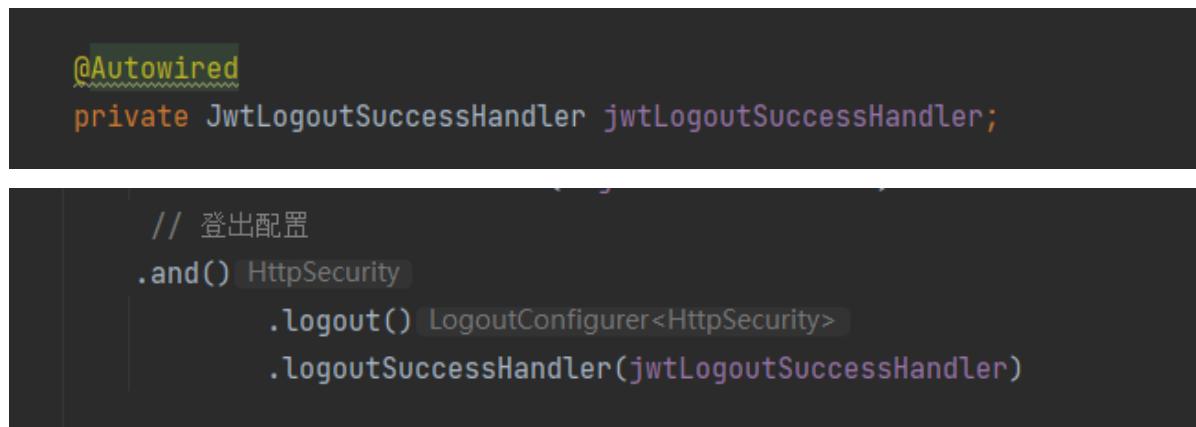
```

* @site www.java1234.vip
* @company 南通小锋网络科技有限公司
*/
@Component
public class JwtLogoutSuccessHandler implements LogoutSuccessHandler {
    @Override
    public void onLogoutSuccess(HttpServletRequest httpServletRequest,
    HttpServletResponse httpServletResponse, Authentication authentication) throws
    IOException, ServletException {
        httpServletResponse.setContentType("application/json;charset=UTF-8");
        ServletOutputStream outputStream =
        httpServletResponse.getOutputStream();

        outputStream.write(JSONUtil.toJsonStr(R.ok("退出成功")).getBytes("UTF-
8"));
        outputStream.flush();
        outputStream.close();
    }
}

```

SecurityConfig配置



```

@Autowired
private JwtLogoutSuccessHandler jwtLogoutSuccessHandler;

// 登出配置
.and() HttpSecurity
    .logout() LogoutConfigurer<HttpSecurity>
        .logoutSuccessHandler(jwtLogoutSuccessHandler)

```

The screenshot shows a Java code editor with the following code:

```

@Autowired
private JwtLogoutSuccessHandler jwtLogoutSuccessHandler;

// 登出配置
.and() HttpSecurity
    .logout() LogoutConfigurer<HttpSecurity>
        .logoutSuccessHandler(jwtLogoutSuccessHandler)

```

Below the code editor is a network traffic capture tool interface. It has a table with the following data:

Name	Headers	Preview	Response	Initiator	Timing
logout			1 [{"msg": "退出成功", "code": 200}]		

获取用户角色权限信息实现

springsecurity鉴权需要获取用户的角色权限系统，包括前端也需要这些信息；

首先我们新建角色表sys_role，菜单权限表sys_menu，用户角色关联表sys_user_role，角色菜单权限关联表sys_role_menu

角色表sys_role

表名 sys_role | 引擎 InnoDB | 数据库 db_admin | 字符集 utf8 | 核对 utf8_general_ci

列名	数据类型	长度	默认	主键?	非空?	Unsigned	自增?	Zerofill?	注释
<code>id</code>	bigint	20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	角色主键ID
<code>name</code>	varchar	30		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	角色名称
<code>code</code>	varchar	100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	角色权限字符串
<code>create_time</code>	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	创建时间
<code>update_time</code>	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	更新时间
<code>remark</code>	varchar	500		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	备注

```

CREATE TABLE `sys_role` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '角色主键ID',
  `name` varchar(30) DEFAULT NULL COMMENT '角色名称',
  `code` varchar(100) DEFAULT NULL COMMENT '角色权限字符串',
  `create_time` datetime DEFAULT NULL COMMENT '创建时间',
  `update_time` datetime DEFAULT NULL COMMENT '更新时间',
  `remark` varchar(500) DEFAULT NULL COMMENT '备注',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=22 DEFAULT CHARSET=utf8;

/*Data for the table `sys_role` */

insert into `sys_role`(`id`, `name`, `code`, `create_time`, `update_time`, `remark`)
values (1,'超级管理员','admin','2022-07-04 14:40:44','2022-07-04 14:40:47','拥有系统最高权限'),(2,'普通角色','common','2022-07-04 14:41:56','2022-07-04 14:41:58','普通角色'),(3,'测试角色','test','2022-07-04 14:42:24','2022-07-04 14:42:27','测试角色'),(4,'2',NULL,NULL,NULL,NULL),(5,'3',NULL,NULL,NULL,NULL),(6,'4',NULL,NULL,NULL,NULL),(7,'5',NULL,NULL,NULL,NULL),(14,'6',NULL,NULL,NULL,NULL),(16,'8',NULL,NULL,NULL,NULL),(17,'0',NULL,NULL,NULL,NULL),(19,'测2','cc2','2022-08-13 21:06:21','2022-08-13 13:06:27','eewew2'),(20,'ccc测试','test2','2022-08-29 17:10:33',NULL,'xxx'),(21,'今天测试角色','todytest','2022-08-29 22:01:11',NULL,'ccc');

```

菜单权限表sys_menu

表名称: sys_menu 引擎: InnoDB
 数据库: db_admin 字符集: utf8
 核对: utf8_general_ci

1列 2个索引 3个外部键 4高级 5个SQL预览

列名	数据类型	长度	默认	主键?	非空?	Unsigned	自增?	Zerofill?	注释
id	bigint	20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	菜单主键ID
name	varchar	50		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	菜单名称
icon	varchar	100	#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	菜单图标
parent_id	bigint	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	父菜单ID
order_num	int	11	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	显示顺序
path	varchar	200	''	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	路由地址
component	varchar	255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	组件路径
menu_type	char	1	''	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	菜单类型 (M目录 C菜单 F按钮)
perms	varchar	100	''	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	权限标识
create_time	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	创建时间
update_time	datetime			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	更新时间
remark	varchar	500		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	备注

```

CREATE TABLE `sys_menu` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '菜单主键ID',
  `name` varchar(50) DEFAULT NULL COMMENT '菜单名称',
  `icon` varchar(100) DEFAULT '#' COMMENT '菜单图标',
  `parent_id` bigint(20) DEFAULT NULL COMMENT '父菜单ID',
  `order_num` int(11) DEFAULT '0' COMMENT '显示顺序',
  `path` varchar(200) DEFAULT '' COMMENT '路由地址',
  `component` varchar(255) DEFAULT NULL COMMENT '组件路径',
  `menu_type` char(1) DEFAULT '' COMMENT '菜单类型 (M目录 C菜单 F按钮)',
  `perms` varchar(100) DEFAULT '' COMMENT '权限标识',
  `create_time` datetime DEFAULT NULL COMMENT '创建时间',
  `update_time` datetime DEFAULT NULL COMMENT '更新时间',
  `remark` varchar(500) DEFAULT NULL COMMENT '备注',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=34 DEFAULT CHARSET=utf8;

/*Data for the table `sys_menu` */

```

```

insert into
`sys_menu`(`id`, `name`, `icon`, `parent_id`, `order_num`, `path`, `component`, `menu_type`,
`perms`, `create_time`, `update_time`, `remark`) values
(1, '系统管理', 'system', 0, 1, '/sys', '', 'M', '', '2022-07-04 14:56:29', '2022-07-04 14:56:31', '系统管理目录'),
(2, '业务管理', 'monitor', 0, 2, '/bsns', '', 'M', '', '2022-07-04 14:59:43', '2022-07-04 14:59:45', '业务管理目录'),
(3, '用户管理', 'user', 1, 1, '/sys/user', 'sys/user/index', 'C', 'system:user:list', '2022-07-04 15:20:51', '2022-07-04 15:20:53', '用户管理菜单'),
(4, '角色管理', 'peoples', 1, 2, '/sys/role', 'sys/role/index', 'C', 'system:role:list', '2022-07-04 15:23:35', '2022-07-04 15:23:39', '角色管理菜单'),
(5, '菜单管理', 'tree-table', 1, 3, '/sys/menu', 'sys/menu/index', 'C', 'system:menu:list', '2022-07-04 15:23:41', '2022-07-04 15:23:43', '菜单管理菜单'),
(6, '部门管理', 'tree', 2, 1, '/bsns/department', 'bsns/Department', 'C', '', '2022-07-04 15:24:40', '2022-07-04 15:24:44', '部门管理菜单'),
(7, '岗位管理', 'post', 2, 2, '/bsns/post', 'bsns/Post', 'C', '', '2022-07-04 15:24:46', '2022-07-04 15:24:46', '岗位管理菜单'),
(8, '用户新增', '#', 3, 2, '', 'F', 'system:user:add', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '添加用户按钮'),
(9, '用户修改', '#', 3, 3, '', 'F', 'system:user:edit', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '修改用户按钮'),
(10, '用户删除', '#', 3, 4, '', 'F', 'system:user:delete', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '删除用户按钮'),
(11, '分配角色', '#', 3, 5, '', 'F', 'system:role', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '分配角色按钮'),
(12, '重置密码', '#', 3, 6, '', 'F', 'system:user:resetPwd', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '重置密码按钮'),
(13, '角色新增', '#', 4, 2, '', 'F', 'system:role:add', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '添加用户按钮'),
(14, '角色修改', '#', 4, 3, '', 'F', 'system:role:edit', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '修改用户按钮'),
(15, '角色删除', '#', 4, 4, '', NULL, 'F', 'system:role:delete', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '删除用户按钮'),
(16, '分配权限', '#', 4, 5, '', 'F', 'system:role:menu', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '分配权限按钮'),
(17, '菜单新增', '#', 5, 2, '', NULL, 'F', 'system:menu:add', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '添加菜单按钮'),
(18, '菜单修改', '#', 5, 3, '', NULL, 'F', 'system:menu:edit', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '修改菜单按钮'),
(19, '菜单删除', '#', 5, 4, '', NULL, 'F', 'system:menu:delete', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '删除菜单按钮'),
(20, '用户查询', '#', 3, 1, '', NULL, 'F', 'system:user:query', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '用户查询按钮'),
(21, '角色查询', '#', 4, 1, '', NULL, 'F', 'system:role:query', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '角色查询按钮'),
(22, '菜单查询', '#', 5, 1, '', NULL, 'F', 'system:menu:query', '2022-07-04 15:24:42', '2022-07-04 15:24:46', '菜单查询按钮'),
(33, '测速22', '122', 3, 3, '', '34', 'M', '33', '2022-08-19 03:11:20', '2022-08-18 19:11:33', NULL);

```

用户角色关联表sys_user_role

查询 sys_user_role

表名称	sys_user_role	引擎	InnoDB
数据库	db_admin	字符集	utf8
核对	utf8_general_ci		

1列 2个索引 3个外部键 高级 5个SQL预览

列名	数据类型	长度	默认	主键?	非空?	Unsigned	自增?	Zerofill?	注释
<input checked="" type="checkbox"/> id	bigint	20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	用户角色主键ID
<input type="checkbox"/> user_id	bigint	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	用户ID
<input type="checkbox"/> role_id	bigint	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	角色ID
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

```

CREATE TABLE `sys_user_role` (
`id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '用户角色主键ID',
`user_id` bigint(20) DEFAULT NULL COMMENT '用户ID',
`role_id` bigint(20) DEFAULT NULL COMMENT '角色ID',
PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=23 DEFAULT CHARSET=utf8;

/*Data for the table `sys_user_role` */

insert into `sys_user_role`(`id`, `user_id`, `role_id`) values (1,1,1),(2,2,2),
(4,1,2),(6,3,3),(7,3,2),(9,4,3),(10,5,3),(11,15,3),(16,28,2),(17,28,3),
(20,29,20),(21,30,17),(22,30,21);

```

角色菜单权限关联表sys_role_menu

查询 sys_role_menu

表名称	sys_role_menu	引擎	InnoDB
数据库	db_admin	字符集	utf8
核对	utf8_general_ci		

1列 2个索引 3个外部键 高级 5个SQL预览

列名	数据类型	长度	默认	主键?	非空?	Unsigned	自增?	Zerofill?	注释
<input checked="" type="checkbox"/> id	bigint	20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	角色菜单主键ID
<input type="checkbox"/> role_id	bigint	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	角色ID
<input type="checkbox"/> menu_id	bigint	20		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	菜单ID
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

```

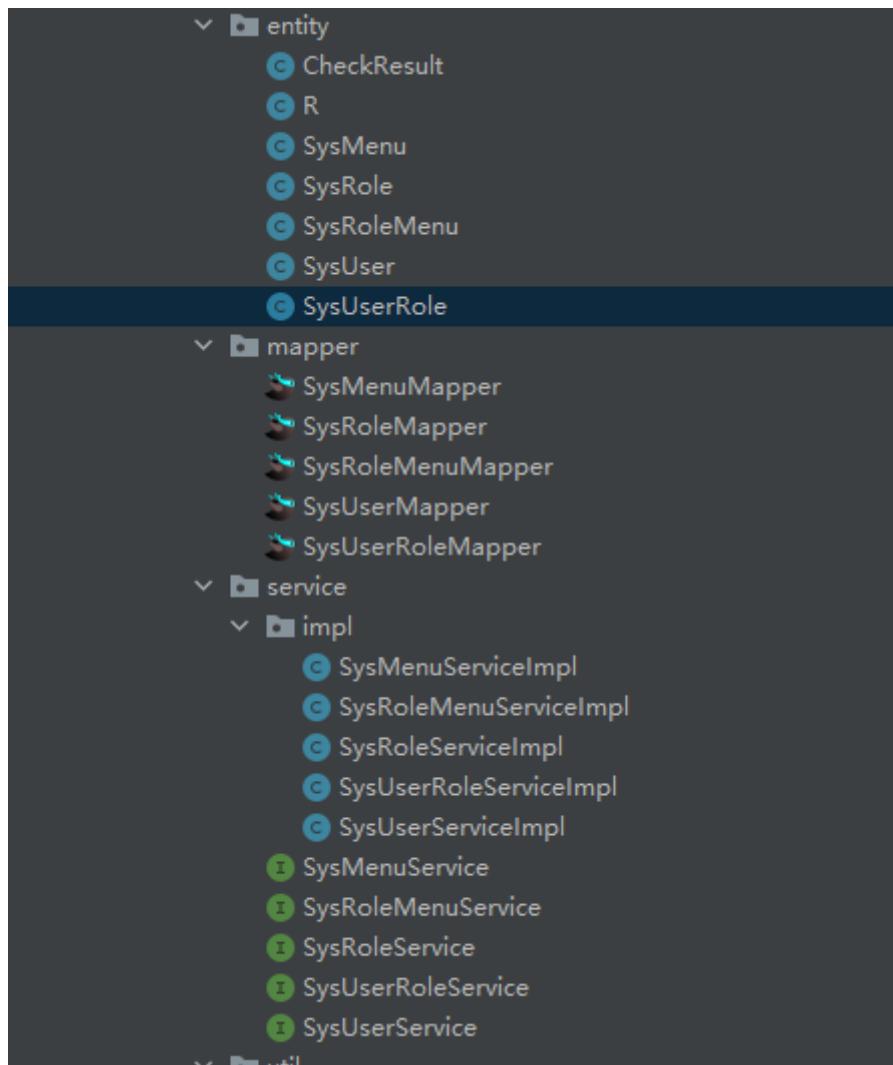
CREATE TABLE `sys_role_menu` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '角色菜单主键ID',
  `role_id` bigint(20) DEFAULT NULL COMMENT '角色ID',
  `menu_id` bigint(20) DEFAULT NULL COMMENT '菜单ID',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=239 DEFAULT CHARSET=utf8;

/*Data for the table `sys_role_menu` */

insert into `sys_role_menu`(`id`, `role_id`, `menu_id`) values (8,2,1),(9,2,2),
(10,2,3),(11,2,4),(12,2,5),(13,2,6),(14,2,7),(15,3,2),(16,3,6),(17,3,7),
(21,7,1),(22,7,2),(23,7,6),(24,7,7),(25,6,1),(26,6,3),(27,6,9),(28,6,10),
(29,19,1),(30,19,3),(31,19,2),(32,19,6),(33,1,1),(34,1,3),(35,1,20),(36,1,8),
(37,1,9),(38,1,10),(39,1,11),(40,1,12),(41,1,4),(42,1,21),(43,1,13),(44,1,14),
(45,1,15),(46,1,16),(47,1,23),(48,1,5),(49,1,22),(50,1,17),(51,1,18),(52,1,19),
(53,1,2),(54,1,6),(55,1,7),(208,20,1),(209,20,3),(210,20,20),(211,20,8),
(212,20,9),(213,20,33),(214,20,10),(215,20,11),(216,20,4),(217,20,21),
(218,20,13),(219,20,5),(220,20,22),(221,20,17),(222,20,18),(223,20,2),
(224,20,6),(225,20,7),(232,21,1),(233,21,9),(234,21,4),(235,21,21),(236,21,2),
(237,21,6),(238,21,7);

```

我们通过MybatisX生成代码：



因为每个实体都有几个通用属性，id, createTime, updateTime, remark, 所以我们搞一个通用基础实体类，让其他类继承下；

方便维护；

新建 BaseEntity

```
/***
 * 公共基础实体类
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
@Data
public class BaseEntity implements Serializable {

    @TableId(value = "id", type = IdType.AUTO)
    private Long id;

    /**
     * 创建日期
     */
    @JsonSerialize(using=CustomDateTimeSerializer.class)
    @JsonFormat(pattern ="yyyy-MM-dd HH:mm:ss")
    private Date createTime;

    /**
     * 更新日期
     */
    @JsonSerialize(using=CustomDateTimeSerializer.class)
    @JsonFormat(pattern ="yyyy-MM-dd HH:mm:ss")
    private Date updateTime;

    /**
     * 备注
     */
    @TableField(value = "remark")
    private String remark;
}
```

MyUserDetailServiceImpl``的getUserAuthority 实现：

```
public List<GrantedAuthority> getUserAuthority(Long userId) {
    // 格式
    ROLE_admin,ROLE_common,system:user:resetPwd,system:role:delete,system:user:list,
    system:menu:query,system:menu:list,system:menu:add,system:user:delete,system:rol
    e:list,system:role:menu,system:user:edit,system:user:query,system:role:edit,syst
    em:user:add,system:user:role,system:menu:delete,system:role:add,system:role:quer
    y,system:menu:edit
    String authority=sysUserService.getUserAuthorityInfo(userId);
    System.out.println("authority="+authority);
    return AuthorityUtils.commaSeparatedStringToAuthorityList(authority);
}
```

SysUserServiceImpl``的实现方法getUserAuthorityInfo

```
public String getUserAuthorityInfo(Long userId) {  
    StringBuffer authority=new StringBuffer();  
    // 根据用户id获取所有的角色  
    List<SysRole> roleList = sysRoleMapper.selectList(new QueryWrapper<SysRole>  
    () .inSql("id", "SELECT role_id FROM sys_user_role WHERE user_id=" + userId));  
    if(roleList.size()>0){  
        String roleCodeStrs = roleList.stream().map(r -> "ROLE_" +  
r.getCode()).collect(Collectors.joining(", "));  
        authority.append(roleCodeStrs);  
    }  
    // 遍历角色，获取所有菜单权限  
    Set<String> menuCodeSet=new HashSet<String>();  
    for(SysRole sysRole:roleList){  
        List<SysMenu> sysMenuList = sysMenuMapper.selectList(new  
QueryWrapper<SysMenu>().inSql("id", "SELECT menu_id FROM sys_role_menu WHERE  
role_id=" + sysRole.getId()));  
        for(SysMenu sysMenu:sysMenuList){  
            String perms=sysMenu.getPerms();  
            if(StringUtil.isNotEmpty(perms)){  
                menuCodeSet.add(perms);  
            }  
        }  
    }  
    if(menuCodeSet.size()>0){  
        authority.append(", ");  
        String menuCodeStrs =  
menuCodeSet.stream().collect(Collectors.joining(", "));  
        authority.append(menuCodeStrs);  
    }  
    System.out.println("authority:"+authority.toString());  
    return authority.toString();  
}
```

参考代码：根据用户id查询所有用户角色信息

```
SELECT * FROM sys_role WHERE id IN ( SELECT role_id FROM sys_user_role WHERE user_id=1 )
```

接口权限测试：

```

@GetMapping("/user/list")
// @PreAuthorize("hasAnyAuthority('system2:user:list')")
@PreAuthorize("hasRole('ROLE2_common')")
public R userList(@RequestHeader(required = false) String token){
    if(StringUtils.isNotEmpty(token)){
        Map<String, Object> resutMap=new HashMap<>();
        List<SysUser> userList = sysUserService.list();
        resutMap.put("userList",userList);
        return R.ok(resutMap);
    }else{
        return R.error(401,"没有权限访问");
    }
}

```

Name	Headers	Preview	Response	Initiator	Timing
list			1 {"msg": "不允许访问", "code": 500}		
list					

记住密码功能实现

记住密码，我们通过cookie来实现，先安装依赖 'js-cookie'

存储用户密码，为了安全需要加密，获取密码解密。所以我们安装依赖'jsencrypt'

util下新建jsencrypt.js

```

import JSEncrypt from 'jsencrypt/bin/jsencrypt.min'

// 密钥对生成 http://web.chacuo.net/netrsakeypair

const publicKey =
'MFwwDQYJKoZIhvCNQEBBQADSwAwSAJBKoR8mX0rGKLqzcwmOzb fj64K8ZIg0dH\n' +
'nzkxSOVOZbFu/TJhz7rFAN+eaGk13C4buccQd/EjEsj9ir7ijT7h96MCAwEAAQ=='

const privateKey =
'MIIBVAIBADANBgkqhkiG9w0BAQEFAASCAT4wggE6AgEAAkEAqhHyZfssYourNxaY\n' +
'7Nt+PrgrxkiA50ef0Rd15U51sw79MmFnusUA355oaSxclhu5xxB38SMSyP2KvuKN\n' +
'PuH3owIDAQABAkAf0iLyL+z41f4Myxk6xUDgLwGximj20CUF+5BKKn1rk+Ed8gA\n' +
'km0HqoTt2UZwa5E2Mzs4EI2gjfQhz5X28uqxAiEA3wNFxfrcz1szhb0gn2zDpWow\n' +
'CSxQAgICstxGuoOqlw8CIQDD0erGKH50mCJ4Z21v+F25WaHYPxCFMvwxpccw99Ecv\n' +
'DQIgIdHTIqd2jfYjPTYj3EDGPbh2HHuffvf1ECT3Ek60CIQCFRlckHpi7hthh\n' +
'YhovyloRYSM+IS9h/0Bz1EAu00ktMQIgSPT3aFAgJYwKpqRYK1LDvcf1ZFCKY7u3\n' +
'UP8iwi1Qw0Y='

// 加密
export function encrypt(txt) {
    const encryptor = new JSEncrypt()
    encryptor.setPublicKey(publicKey) // 设置公钥
    return encryptor.encrypt(txt) // 对数据进行加密
}

```

```
}

// 解密
export function decrypt(txt) {
  const encryptor = new JSEncrypt()
  encryptor.setPrivateKey(privateKey) // 设置私钥
  return encryptor.decrypt(txt) // 对数据进行解密
}
```

```
</el-form-item>

<el-checkbox v-model="loginForm.rememberMe" style="margin:0px 0px 25px 0px;">记住密码</el-checkbox>
<el-form-item style="width:100%;">
  <el-button
    size="large"
    type="primary"
    style="width:100%;"
    @click.prevent="handleLogin"
  >
```

```
import router from '@/router'
import Cookies from "js-cookie";

const loginRef=ref(null);

const loginForm=ref({
  username:"",
  password:"",
  rememberMe:false
})
```

```
import Cookies from "js-cookie";
import { encrypt, decrypt } from "@/util/jsencrypt";
```

```
// 勾选了需要记住密码设置在 cookie 中设置记住用户名和密码
if (loginForm.value.rememberMe) {
  Cookies.set("username", loginForm.value.username, { expires: 30 });
  Cookies.set("password", encrypt(loginForm.value.password), { expires: 30 });
  Cookies.set("rememberMe", loginForm.value.rememberMe, { expires: 30 });
} else {
  // 否则移除
  Cookies.remove("username");
  Cookies.remove("password");
  Cookies.remove("rememberMe");
}
```

```

function getCookie() {
  const username = Cookies.get("username");
  const password = Cookies.get("password");
  const rememberMe = Cookies.get("rememberMe");
  loginForm.value = {
    username: username === undefined ? loginForm.value.username : username,
    password: password === undefined ? loginForm.value.password :
      decrypt(password),
    rememberMe: rememberMe === undefined ? false : Boolean(rememberMe)
  };
}

getCookie();

```

主页面功能实现

主页面布局实现

```

<template>
  <div class="app-wrapper">
    <el-container>
      <el-aside width="200px" class="sidebar-container"><Menu/></el-aside>
      <el-container>
        <el-header><Header/></el-header>
        <el-main><Tabs/></el-main>
        <el-footer><Footer/></el-footer>
      </el-container>
    </el-container>
  </div>
</template>

<script setup>
import Menu from '@/layout/menu'
import Header from '@/layout/header'
import Footer from '@/layout/footer'
import Tabs from '@/layout/tabs'

</script>

<style lang="scss" scoped>

.app-wrapper {
  position: relative;
  width: 100%;
  height: 100%;
}

.sidebar-container {
  background-color: #2d3a4b;
  height: 100%;
}

.el-container{

```

```

        height:100%
    }

.el-header{
    padding-left: 0px;
    padding-right: 0px;
}

:deep(ul.el-menu){
    border-right-width: 0px
}


```

</style>

footer index.vue

```

<template>
    <div class="footer">
        Copyright © 2012-2022 Java知识分享网 版权所有 &nbsp;<a href="http://www.java1234.vip" target="_blank">www.java1234.vip</a>
    </div>
</template>

<script setup>

</script>

<style lang="scss" scoped>
.footer{
    padding: 20px;
    display: flex;
    align-items: center;
}
</style>

```

tabs index.vue

```

<template>
    <div style="margin-bottom: 20px">
        <el-button size="small" @click="addTab(editableTabsValue)">
            add tab
        </el-button>
    </div>
    <el-tabs
        v-model="editableTabsValue"
        type="card"
        class="demo-tabs"
        closable
        @tab-remove="removeTab"
    >
        <el-tab-pane
            v-for="item in editableTabs"
            :key="item.name"

```

```
:label="item.title"
:name="item.name"
>
{{ item.content }}
</el-tab-pane>
</el-tabs>
</template>
<script setup>
import { ref } from 'vue'

let tabIndex = 2
const editableTabsValue = ref('2')
const editableTabs = ref([
{
  title: 'Tab 1',
  name: '1',
  content: 'Tab 1 content',
},
{
  title: 'Tab 2',
  name: '2',
  content: 'Tab 2 content',
},
])
]

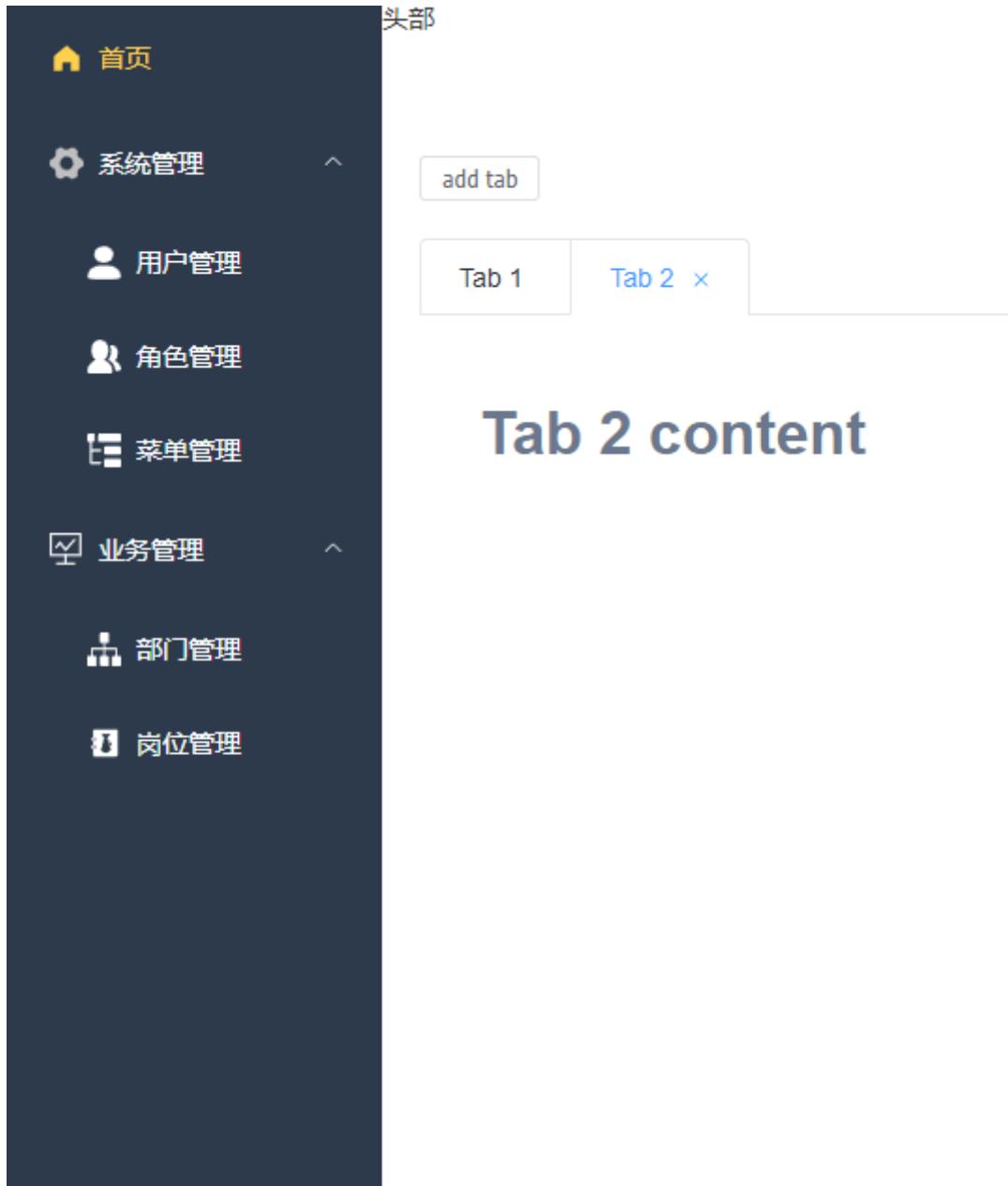
const addTab = (targetName) => {
  const newTabName = `${++tabIndex}`
  editableTabs.value.push({
    title: 'New Tab',
    name: newTabName,
    content: 'New Tab content',
  })
  editableTabsValue.value = newTabName
}

const removeTab = (targetName) => {
  const tabs = editableTabs.value
  let activeName = editableTabsValue.value
  if (activeName === targetName) {
    tabs.forEach((tab, index) => {
      if (tab.name === targetName) {
        const nextTab = tabs[index + 1] || tabs[index - 1]
        if (nextTab) {
          activeName = nextTab.name
        }
      }
    })
  }
  editableTabsValue.value = activeName
  editableTabs.value = tabs.filter((tab) => tab.name !== targetName)
}

</script>
<style>
.demo-tabs > .el-tabs__content {
  padding: 32px;
  color: #6b778c;
  font-size: 32px;
  font-weight: 600;
}
```

```
    }  
    </style>
```

左侧动态权限菜单实现



Tab 2 content

LoginSuccessHandler 修改:

```
@Component  
public class LoginSuccessHandler implements AuthenticationSuccessHandler {  
  
    @Autowired  
    private SysUserService sysUserService;  
  
    @Autowired  
    private SysRoleService sysRoleService;  
  
    @Autowired  
    private SysMenuService sysMenuService;
```

```

@Override
public void onAuthenticationSuccess(HttpServletRequest httpServletRequest,
HttpServletResponse httpServletResponse, Authentication authentication) throws
IOException, ServletException {
    httpServletResponse.setContentType("application/json; charset=UTF-8");
    ServletOutputStream outputStream =
httpServletResponse.getOutputStream();

    String username=authentication.getName() // 获取用户名
    // 更新用户最后登录记录
    sysUserService.update(new UpdateWrapper<SysUser>().set("login_date",new
Date()).eq("username",username));

    SysUser currentUser = sysUserService.getByUsername(username);

    String token = JwtUtils.genJwtToken(username);

    // 根据用户id获取所有的角色
    List<SysRole> roleList = sysRoleService.list(new QueryWrapper<SysRole>
() .inSql("id", "SELECT role_id FROM sys_user_role WHERE user_id=" +
currentUser.getId()));

    // 遍历角色，获取所有菜单权限
    Set<SysMenu> menuSet=new HashSet<SysMenu>();
    for(SysRole sysRole:roleList){
        List<SysMenu> sysMenuList = sysMenuService.list(new
QueryWrapper<SysMenu>().inSql("id", "SELECT menu_id FROM sys_role_menu WHERE
role_id=" + sysRole.getId()));
        for(SysMenu sysMenu:sysMenuList){
            menuSet.add(sysMenu);
        }
    }

    List<SysMenu> sysMenuList=new ArrayList<>(menuSet);

    // 排序
    sysMenuList.sort(Comparator.comparing(SysMenu::getOrderNum));

    List<SysMenu> menuList=sysMenuService.buildTreeMenu(sysMenuList);

    outputStream.write(JSONUtil.toJsonStr(R.ok("登录成
功").put("authorization",token).put("currentUser",currentUser).put("menuList",men
uList)).getBytes());
    outputStream.flush();
    outputStream.close();

}
}

```

SysMenuServiceImpl buildTreeMenu

```

@Override

```

```
public List<SysMenu> buildTreeMenu(List<SysMenu> sysMenuList) {  
    List<SysMenu> resultMenuList=new ArrayList<>();  
  
    for(SysMenu sysMenu:sysMenuList){  
        // 寻找子节点  
        for(SysMenu e:sysMenuList){  
            if(e.getParentId()==sysMenu.getId()){  
                sysMenu.getChildren().add(e);  
            }  
        }  
  
        // 判断父节点，添加到集合  
        if(sysMenu.getParentId()==0L){  
            resultMenuList.add(sysMenu);  
        }  
    }  
  
    return resultMenuList;  
}
```

SysMenu加一个字段

```
@TableField(exist = false)  
private List<SysMenu> children=new ArrayList<>();
```

store修改：

```
export default createStore( options: {
  state: {
  },
  getters: {
    GET_TOKEN: state => {
      return sessionStorage.getItem( key: "token")
    },
    GET_MENUList:state => {
      return JSON.parse(sessionStorage.getItem( key: "menuList"));
    }
  },
  mutations: {
    SET_TOKEN: (state, token) => {
      sessionStorage.setItem("token", token)
    },
    SET_MENUList: (state, menuList) => {
      sessionStorage.setItem("menuList", JSON.stringify(menuList))
    }
  },
  actions: {
  },
  modules: {
  }
})
```

Login.vue

```
Cookies.remove("password");
Cookies.remove("rememberMe");
}

try{
  let result=await requestUtil.post("login?"+qs.stringify(loginForm.value))
  let data=result.data;
  if(data.code==200){
    const token = data.authorization;
    const menuList=data.menuList;
    console.log("menuList:"+menuList);
    store.commit("SET_MENUList",menuList);
    store.commit('SET_TOKEN',token),
    router.replace("/")
  }else{
    ElMessage.error(data.msg)
  }
} catch(error){
```

menu/index.vue

```
<template>
```

```

<el-menu
  active-text-color="#ffd04b"
  background-color="#2d3a4b"
  class="el-menu-vertical-demo"
  text-color="#fff"
  router
  :default-active="/index"
>
  <el-menu-item index="/index">
    <el-icon><home-filled /></el-icon>
    <span>首页</span>
  </el-menu-item>

  <el-sub-menu :index="menu.path" v-for="menu in menuList">
    <template #title>
      <el-icon><svg-icon :icon="menu.icon"/></el-icon>
      <span>{{menu.name}}</span>
    </template>

    <el-menu-item :index="item.path" v-for="item in menu.children">
      <el-icon><svg-icon :icon="item.icon"/></el-icon>
      <span>{{item.name}}</span>
    </el-menu-item>

  </el-sub-menu>
</el-menu>
</template>

<script setup>
import
{HomeFilled,User,Tickets,Goods,DocumentAdd,Management,Setting>Edit,SwitchButton,
Promotion} from '@element-plus/icons-vue'
import {ref} from 'vue'
import store from '@/store'

const menuList=ref(store.getters.GET_MENULIST)
console.log("menuList2="+menuList)
</script>

<style lang="scss" scoped>
</style>

```

右上角用户头像显示实现



这里有个用户头像，虚拟路径映射配置下：

WebAppConfigurer类：

```
@Override  
public void addResourceHandlers(ResourceHandlerRegistry registry) {  
  
    registry.addResourceHandler("/image/userAvatar/**").addResourceLocations("file:  
D:\\\\java1234-admin2\\\\userAvatar\\\\");  
}
```

store/index.js

```
        },
        getters: {
            GET_TOKEN: state => {
                return sessionStorage.getItem( key: "token")
            },
            GET_MENUList:state => {
                return JSON.parse(sessionStorage.getItem( key: "menuList"));
            },
            GET_USERINFO:state => {
                return JSON.parse(sessionStorage.getItem( key: "userInfo"));
            }
        },
        mutations: {
            SET_TOKEN: (state, token) => {
                sessionStorage.setItem("token", token)
            },
            SET_MENUList: (state, menuList) => {
                sessionStorage.setItem("menuList", JSON.stringify(menuList))
            },
            SET_USERINFO: (state, userInfo) => {
                sessionStorage.setItem("userInfo", JSON.stringify(userInfo))
            },
        }
    }
}
```

Login.vue

```
        Cookies.remove('password');
        Cookies.remove("rememberMe");
    }

    try{
        let result=await requestUtil.post("login?"+qs.stringify(loginForm.value))
        let data=result.data;
        if(data.code==200){
            const token = data.authorization;
            const menuList=data.menuList;
            const currentUser=data.currentUser;
            console.log("menuList:"+menuList);
            store.commit("SET_MENUList",menuList);
            store.commit('SET_TOKEN',token);
            store.commit('SET_USERINFO',currentUser)
            router.replace("/")
        }
    }
}
```

header/index.vue

```
<template>
<div class="navbar">
    <Breadcrumb/>
    <div class="navbar-right">
        <Avatar/>
    </div>
</div>
</template>
```

```
<script setup>
import Breadcrumb from './components/breadcrumb.vue'
import Avatar from './components/avatar.vue'
</script>

<style lang="scss" scoped>
.navbar {
  width: 100%;
  height: 60px;
  overflow: hidden;
  background-color: #F5F5F5;
  box-shadow: 0 1px 4px rgba(0, 21, 41, 0.08);
  padding: 0 16px;
  display: flex;
  align-items: center;
  box-sizing: border-box;
  position: relative;
  .navbar-right {
    flex: 1;
    display: flex;
    align-items: center;
    justify-content: flex-end;
    :deep(.navbar-item) {
      display: inline-block;
      margin-left: 18px;
      font-size: 22px;
      color: #5a5e66;
      box-sizing: border-box;
      cursor: pointer;
    }
  }
}
</style>
```

breadcrumb.vue

```
<template>
面包屑
</template>

<script setup>

</script>

<style lang="scss" scoped>

</style>
```

avatar.vue

```
<template>
<el-dropdown>
  <span class="el-dropdown-link">
```

```

<el-avatar shape="square" :size="40" :src="squareUrl" />
    &nbsp;&nbsp;{{ currentUser.username }}
    <el-icon class="el-icon--right">
        <arrow-down />
    </el-icon>
</span>
<template #dropdown>
    <el-dropdown-menu>
        <el-dropdown-item>个人中心</el-dropdown-item>
        <el-dropdown-item @click="logout">安全退出</el-dropdown-item>
    </el-dropdown-menu>
</template>
</el-dropdown>
</template>

<script setup>
import { ArrowDown } from '@element-plus/icons-vue'
import {ref} from 'vue'
import store from '@/store'
import requestUtil,{getServerUrl} from '@/util/request'

const currentUser=ref(store.getters.GET_USERINFO);

const squareUrl=ref(getServerUrl()+'image/userAvatar/'+currentUser.value.avatar)

const logout=async ()=>{
    let result=await requestUtil.get("/logout");

    if(result.data.code==200){
        store.dispatch('logout')
    }
}

</script>

<style lang="scss" scoped>
.el-dropdown-link {
    cursor: pointer;
    color: var(--el-color-primary);
    display: flex;
    align-items: center;
}
</style>

```

安全退出

store

```
✓ menu\index.vue × ✓ header\index.vue × ✓ avatar.vue × ✓ tabs\index.vue × ✓ request.js × ✓ breadcrumb.vue × ✓ Login.js
1 import { createStore } from 'vuex'
2 import router from '@/router'
3
4 export default createStore( options: {
5   state: {
6     },
7   getters: {
8     GET_TOKEN: state => {
9       return sessionStorage.getItem( key: "token")
10    },
11   GET_MENULIST:state => {
12     return JSON.parse(sessionStorage.getItem( key: "menuList"));
13   },
14   GET_USERINFO:state => {
15     return JSON.parse(sessionStorage.getItem( key: "userInfo"));
16   }
17 },
18 mutations: {
19   SET_TOKEN: (state, token) => {
20     sessionStorage.setItem("token", token)
21   },
22   SET_MENULIST: (state, menuList) => {
23     sessionStorage.setItem("menuList", JSON.stringify(menuList))
24   },
25   SET_USERINFO: (state, userInfo) => {
26     sessionStorage.setItem("userInfo", JSON.stringify(userInfo))
27   },
28 },
29 actions: {
30   // 安全退出
31   logout(){
32     window.sessionStorage.clear();
33     router.replace( to: "/login")
34   }
35 },
36 })
37 modules: {
38 }
39 })
```

路由守卫功能实现

前端如果没有登录过，也就没有token，则自动跳转到登录页面，这个就是路由守卫。

我们通过 `router.beforeEach((to, from, next)=>{})` 实现

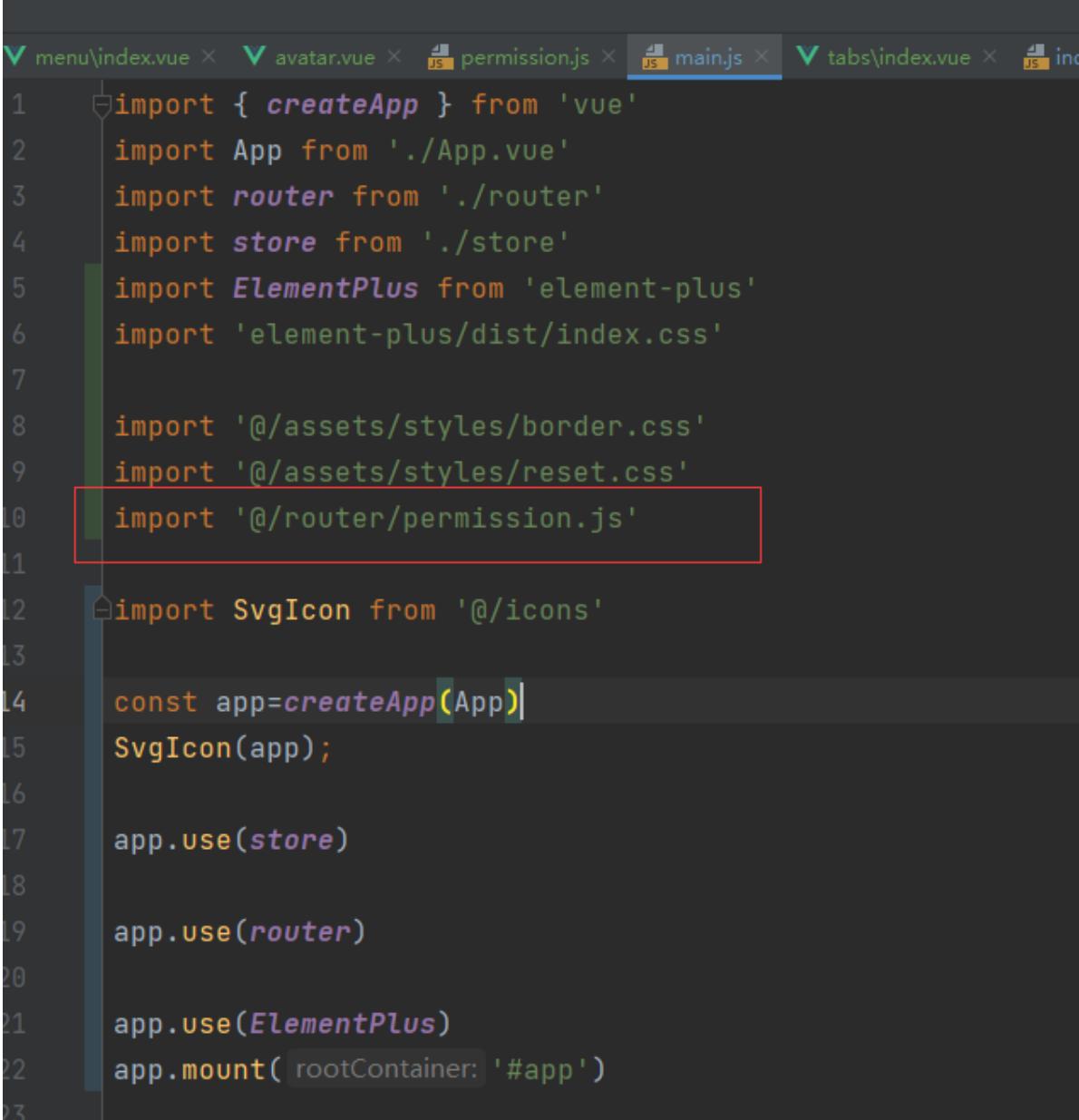
router目录下新建permission.js

```
import router from "@/router/index"
import store from "@/store"

router.beforeEach((to, from, next) => {
```

```
const whiteList=['/login'] // 白名单
let token=store.getters.GET_TOKEN;
if(token){
    next();
}else{
    if(whiteList.includes(to.path)){
        next();
    }else{
        next("/login");
    }
}
})
```

main.js里面引入permission.js

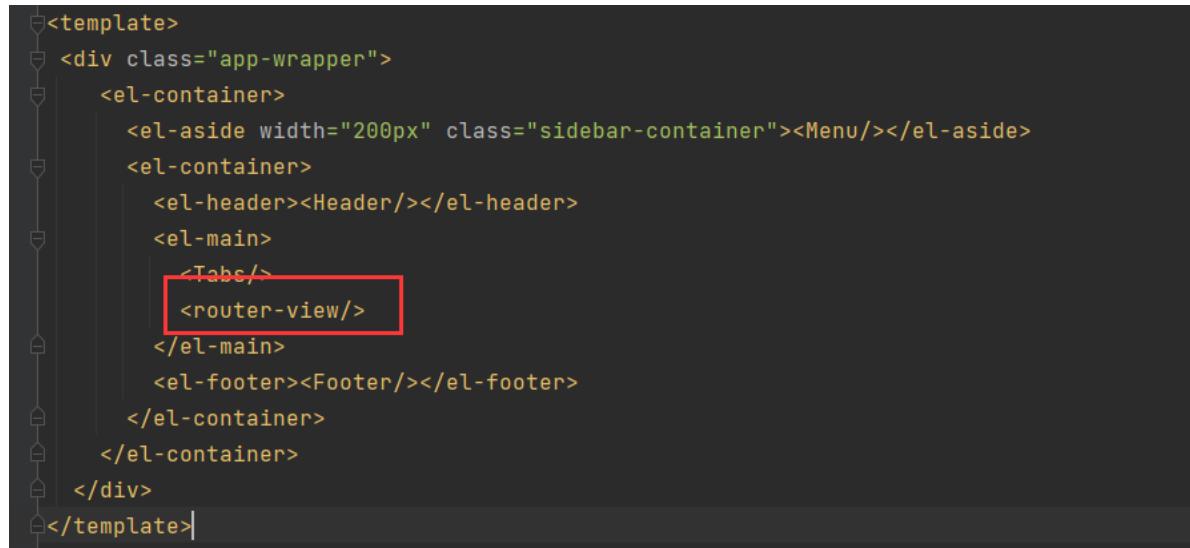


```
1 import { createApp } from 'vue'
2 import App from './App.vue'
3 import router from './router'
4 import store from './store'
5 import ElementPlus from 'element-plus'
6 import 'element-plus/dist/index.css'
7
8 import '@/assets/styles/border.css'
9 import '@/assets/styles/reset.css'
10 import '@/router/permission.js' import '@/router/permission.js'
11
12 import SvgIcon from '@/icons'
13
14 const app=createApp(App)
15 SvgIcon(app);
16
17 app.use(store)
18
19 app.use(router)
20
21 app.use(ElementPlus)
22 app.mount( rootContainer: '#app' )
23
```

动态路由实现

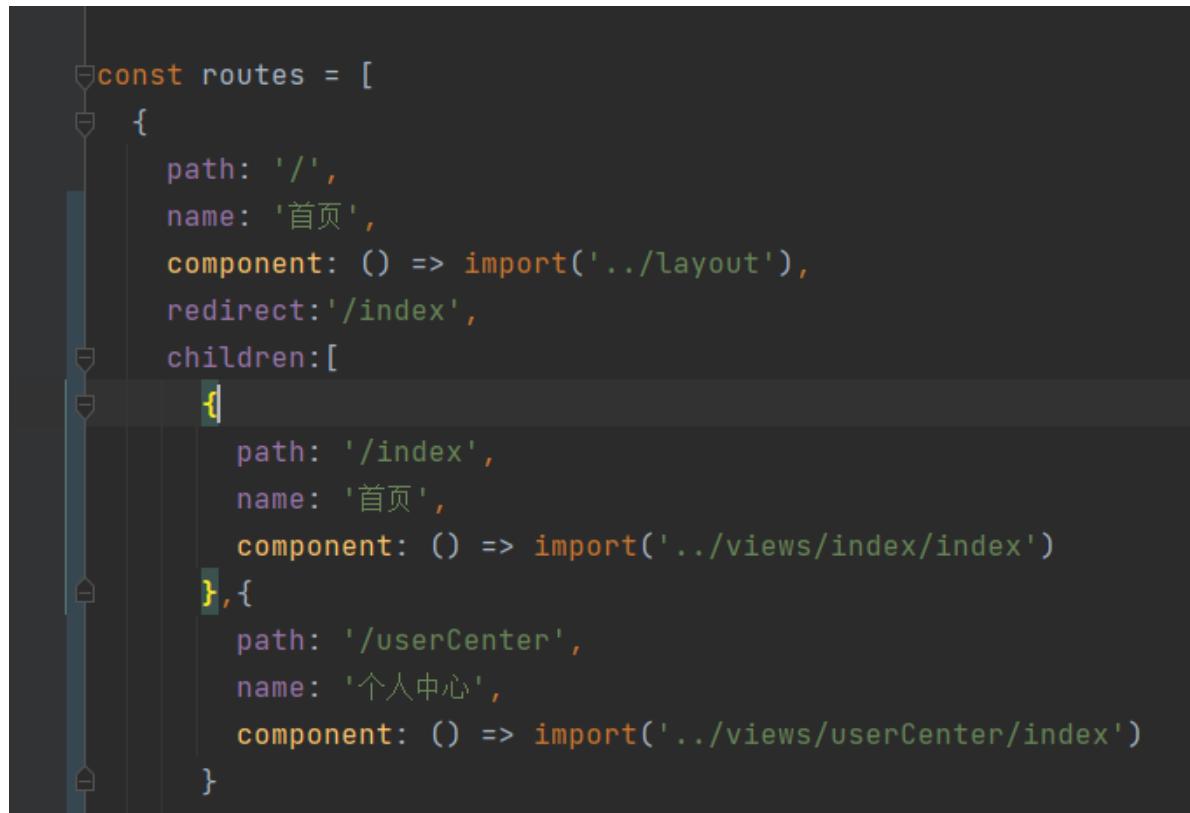
我们vue路由信息，需要通过后端查询的menuList，动态设置到router里面去；

layout index.vue 加下



```
<template>
  <div class="app-wrapper">
    <el-container>
      <el-aside width="200px" class="sidebar-container"><Menu/></el-aside>
      <el-container>
        <el-header><Header/></el-header>
        <el-main>
          <Tabs/>
          <router-view/>
        </el-main>
        <el-footer><Footer/></el-footer>
      </el-container>
    </el-container>
  </div>
</template>
```

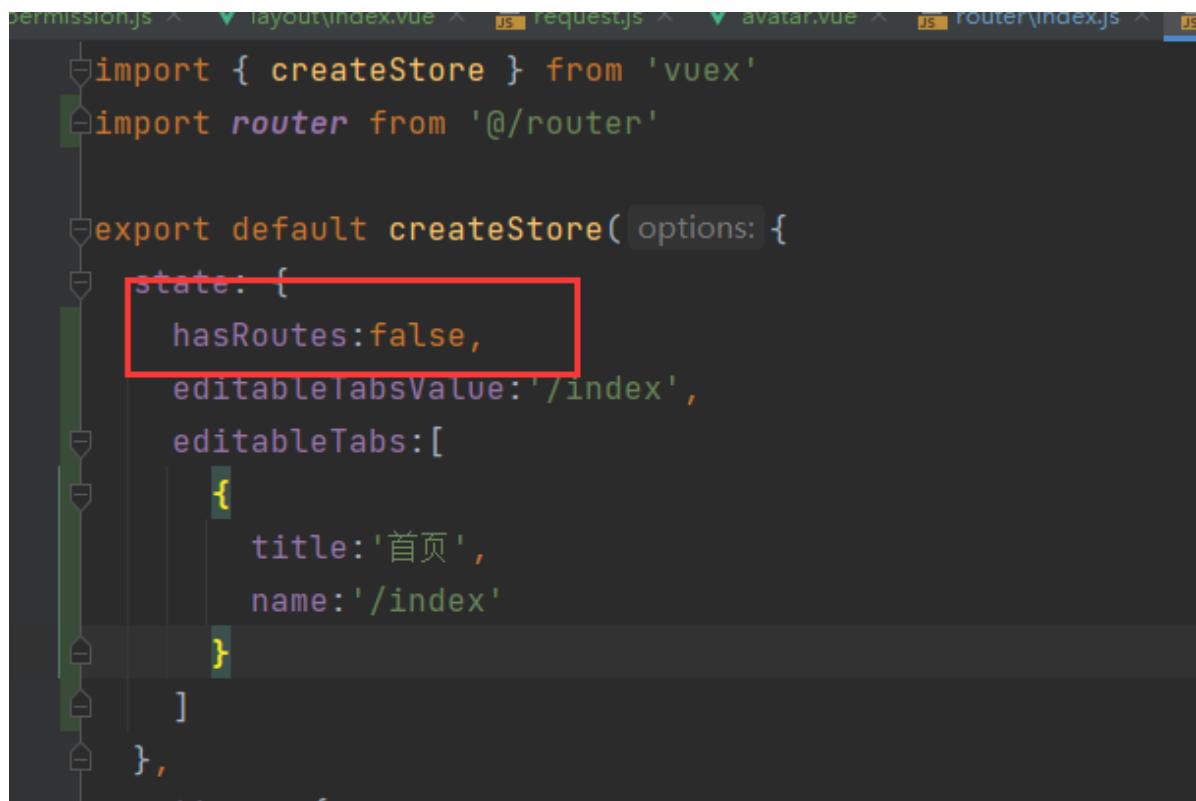
router要搞个children



```
const routes = [
  {
    path: '/',
    name: '首页',
    component: () => import('../layout'),
    redirect: '/index',
    children:[
      {
        path: '/index',
        name: '首页',
        component: () => import('../views/index/index')
      },
      {
        path: '/userCenter',
        name: '个人中心',
        component: () => import('../views/userCenter/index')
      }
    ]
}
```

我们在路由守卫代码里面动态判断，绑定一次动态路由

我们搞一个标识变量 hasRoutes



```
import { createStore } from 'vuex'
import router from '@/router'

export default createStore( options: {
    state: {
        hasRoutes:false,
        editableTabsValue:'/index',
        editableTabs:[
            {
                title:'首页',
                name:'/index'
            }
        ]
    },
    ...
})
```

搞一个设置方法

```
},
SET_ROUTES_STATE: (state, hasRoutes) => {
    state.hasRoutes=hasRoutes
},
},
```

permission.js

```
import router from "@/router/index"
import store from "@store"

router.beforeEach((to, from, next)=>{
    const whiteList=['/login'] // 白名单
    let token=store.getters.GET_TOKEN;
    let hasRoutes=store.state.hasRoutes;
    let menuList=store.getters.GET_MENULIST;
    if(token){
        if(!hasRoutes){
            bindRoute(menuList);
            store.commit("SET_ROUTES_STATE",true);
        }
        next();
    }else{
        if(whiteList.includes(to.path)){
            next();
        }else{
            next("/login");
        }
    }
})
```

```

    })

    // 动态绑定路由
    const bindRoute=(menuList)=>{
        console.log(menuList)
        let newRoutes=router.options.routes;
        menuList.forEach(menu=>{
            if(menu.children){
                menu.children.forEach(m=>{
                    // 菜单转成路由
                    let route=menuToRoute(m,menu.name);
                    if(route){
                        newRoutes[0].children.push(route); // 添加到路由管理
                    }
                })
            }
        })
        // 重新添加到路由
        newRoutes.forEach(route=>{
            router.addRoute(route);
        })
    }

    // 菜单转成路由
    const menuToRoute = (menu,parentName) => {

        if (!menu.component) {
            return null
        }else{
            let route = {
                name: menu.name,
                path: menu.path,
                meta:{
                    parentName:parentName
                }
            }
            route.component = () => import('@/views/' + menu.component +'.vue')

            return route
        }
    }
}

```

安全退出代码里面，需要设置下hasRoutes状态：

```
const squareUrl=ref(getServerUrl()+'image/userAvatar/'+cu

const logout=async ()=>{
    let result=await requestUtil.get("/logout");

    if(result.data.code==200){
        store.commit("SET_ROUTES_STATE",false);
        store.dispatch('Logout')
    }
}
```

动态标签页实现

store添加默认tabs数组，以及默认选中的tab值，以及添加和充值tab

```
export default createStore( options: {
    state: {
        hasRoutes:false,
        editableTabsValue:'/index',
        editableTabs:[
            {
                title:'首页',
                name:'/index'
            }
        ]
    }
},
```

```
},
ADD_TABS: (state, tab) => {
  if(state.editableTabs.findIndex(e=>e.name==tab.path)===-1){
    state.editableTabs.push({
      title:tab.name,
      name:tab.path
    })
  }
  state.editableTabsValue=tab.path;
},
RESET_TABS: (state) => {
  state.editableTabsValue='/index';
  state.editableTabs=[{
    title:'首页',
    name:'/index'
  }]
}.
```

安全退出的时候，要重置下tabs

```
const logout=async ()=>{
  let result=await requestUtil.get("/logout");

  if(result.data.code==200){
    store.commit("SET_ROUTES_STATE",false);
    store.commit("RESET_TABS");
    store.dispatch('logout')
  }
}
```

menu index.vue

```
<el-menu-item :index="item.path" v-for="item in menu.children" @click="openTab(item)">
  <el-icon><svg-icon :icon="item.icon"/></el-icon>
  <span>{{item.name}}</span>
</el-menu-item>

</el-sub-menu>
</el-menu>
</template>

<script setup>
import ...

const menuList=ref(store.getters.GET_MENULIST)
console.log("menuList2="+menuList)

const openTab=(item)=>{
  store.commit('ADD_TABS',item);
```

tabs index.vue

```
<template>
<el-tabs
  v-model="editableTabsValue"
  type="card"
  class="demo-tabs"
  closable
  @tab-remove="removeTab"
  @tab-click="clickTab">
  <el-tab-pane
    v-for="item in editableTabs"
    :key="item.name"
    :label="item.title"
    :name="item.name">
  </el-tab-pane>
</el-tabs>
</template>
<script setup>
import { ref ,watch} from 'vue'
import store from "@/store";
import {useRouter} from 'vue-router'
const router=useRouter();

const editableTabsValue = ref(store.state.editableTabsValue)
const editableTabs = ref(store.state.editableTabs)

const removeTab = (targetName) => {
  const tabs = editableTabs.value
  let activeName = editableTabsValue.value

  if(activeName==='/index'){
    return
  }

  if (activeName === targetName) {
    tabs.forEach((tab, index) => {
      if (tab.name === targetName) {
        const nextTab = tabs[index + 1] || tabs[index - 1]
        if (nextTab) {
          activeName = nextTab.name
        }
      }
    })
  }
}

editableTabsValue.value = activeName
editableTabs.value = tabs.filter((tab) => tab.name !== targetName)

store.state.editableTabsValue=editableTabsValue.value
```

```
store.state.editableTabs=editableTabs.value

router.push({path:activeName})
}

const refreshTabs=()=>{
  editableTabsValue.value=store.state.editableTabsValue;
  editableTabs.value=store.state.editableTabs;
}

const clickTab=(target)=>{
  console.log('target.props.label=' + target.props.label)
  router.push({name:target.props.label})
}

watch(store.state, ()=>{
  refreshTabs();
}, {deep:true, immediate:true})

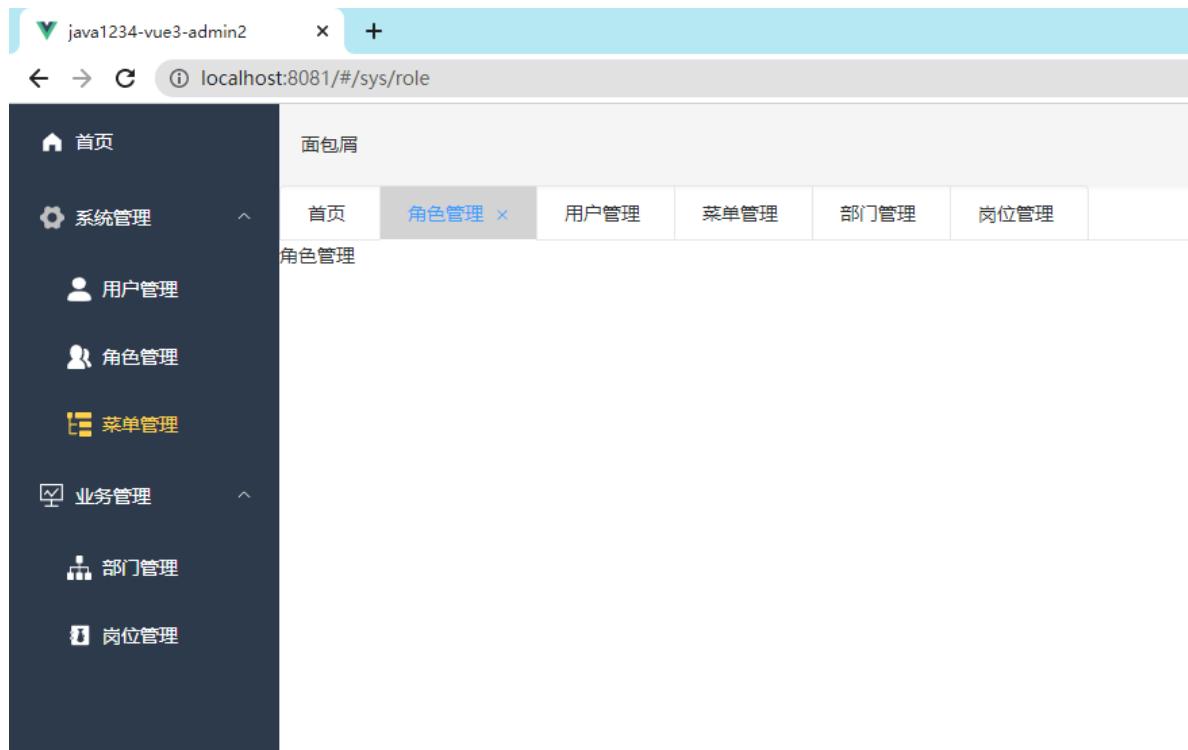
</script>
<style>

.demo-tabs > .el-tabs__content {
  padding: 32px;
  color: #6b778c;
  font-size: 32px;
  font-weight: 600;
}

.el-main{
  padding:0px;
}

.el-tabs--card>.el-tabs__header .el-tabs__item.is-active{
  background-color: lightgray;
}

.el-tabs{
  height:45px
}
</style>
```



动态面包屑实现

breadcrumb.vue

```
<template>
<el-icon><HomeFilled /></el-icon>
<el-breadcrumb separator="/">

    <el-breadcrumb-item v-for="(item,index) in breadcrumbList" :key="index">
        <span class="root" v-if="parentName && index>0">
            {{parentName}}&ampnbsp&ampnbsp/&ampnbsp&ampnbsp</span>
        <span class="leaf" v-if="index==breadcrumbList.length-1">{{item.name}}</span>
    </el-breadcrumb-item>
        <span class="root" v-else>{{item.name}}</span>
    </el-breadcrumb-item>

</el-breadcrumb>
</template>

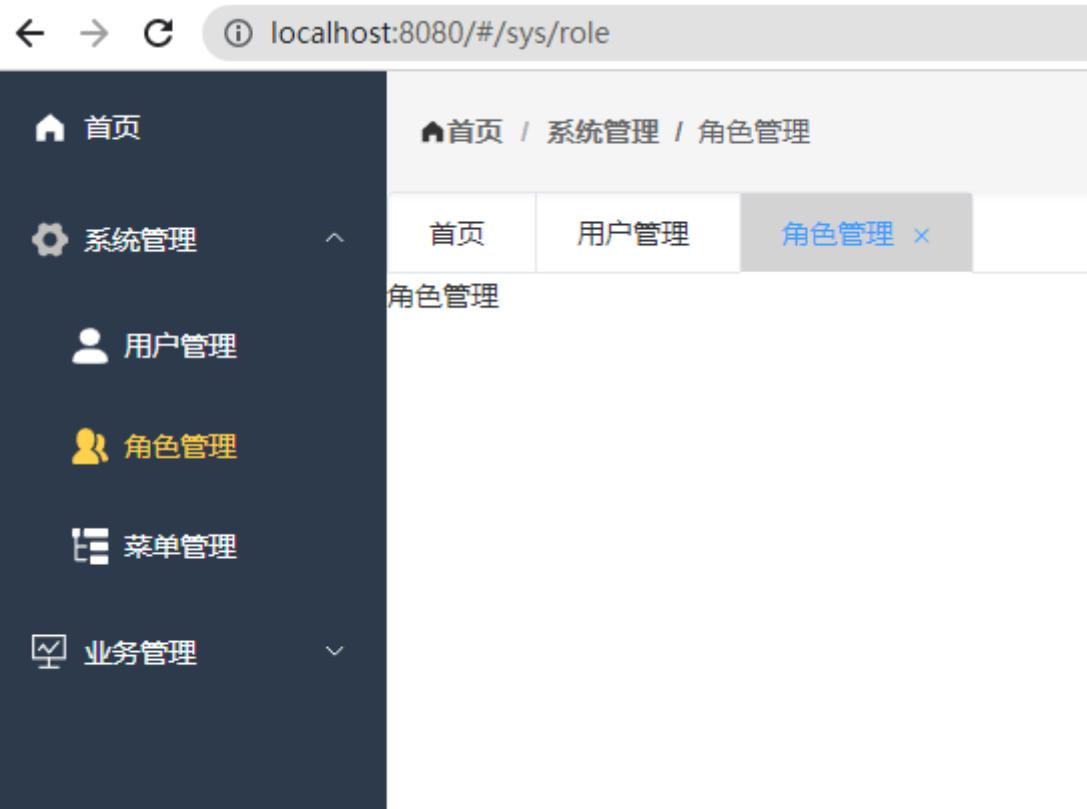
<script setup>
import { ref,watch } from 'vue'
import {HomeFilled} from '@element-plus/icons-vue'
import {useRoute} from 'vue-router'
import store from "@/store";

const route=useRoute();
const breadcrumbList=ref([]);
const parentName=ref("")

const initBreadcrumbList=()=>{
    breadcrumbList.value=route.matched;
    parentName.value=route.meta.parentName;
}

```

```
watch(route, ()=>{
  initBreadcrumbList();
}, {deep:true, immediate:true})  
  
</script>  
  
<style lang="scss" scoped>
.leaf{
  cursor:text;
}
.root{
  color:#666;
  font-weight:600;
}
</style>
```



index index.vue

```
<template>
<div class="home">
  欢迎使用，Java1234 通用权限系统！
</div>

</template>

<script>
export default {
  name: "index"
};
</script>

<style lang="scss" scoped>
```

```
.home{  
  padding: 40px;  
  font-size: 30px;  
  font-weight: bold;  
}  
</style>
```

个人中心功能实现

路由与导航动态绑定实现

App.vue加上下面这个 监控route,动态添加标签

```
import { ref ,watch} from 'vue'  
import { useRoute,useRouter } from 'vue-router'  
const route=useRoute();  
const router=useRouter();  
const whitePath=['/login','/index','/']  
  
watch(route,(to,from)=>{  
  console.log("to"+to.name)  
  console.log(to.path)  
  
  if (whitePath.indexOf(to.path) === -1) {  
    console.log("to.path="+to.path)  
    let obj = {  
      name: to.name,  
      path: to.path  
    }  
  
    store.commit("ADD_TABS", obj)  
  }  
}, {deep:true,immediate:true})
```

```
<template>
  <el-menu
    active-text-color="#ffd04b"
    background-color="#2d3a4b"
    class="el-menu-vertical-demo"
    text-color="#fff"
    router
      :default-active="activeIndex"
    >
    <el-menu-item index="/index">
      <el-icon><home-filled /></el-icon>
      <span>首页</span>
    </el-menu-item>
  </el-menu>
```

```
const activeIndex=ref("/index")

watch(store.state, ()=>{
  console.log("editableTabsValue="+store.state.editableTabsValue)
  activeIndex.value=store.state.editableTabsValue
}, {deep:true, immediate:true})
```

avatar.vue加下router-link

```
4   <el-avatar shape="square" :size="40" :src="squareUrl" />
5   &nbsp;&nbsp;{{ currentUser.username }}
6   <el-icon class="el-icon--right">
7     <arrow-down />
8   </el-icon>
9   </span>
10  <template #dropdown>
11    <el-dropdown-menu>
12      <el-dropdown-item>
13        <router-link :to="{name:'个人中心'}">个人中心</router-link>
14      </el-dropdown-item>
15      <el-dropdown-item @click="logout">安全退出</el-dropdown-item>
16    </el-dropdown-menu>
```

localhost:8081/#/userCenter

个人中心

个人中心页面构建实现

个人信息

用户名	java1234
手机号码	18862857417
邮箱	caofeng4017@126.com
所属角色	
创建日期	2022-08-29 22:10:52

基本资料

基本信息	修改密码
* 手机号码:	18862857417
* 用户邮箱:	caofeng4017@126.com
<button>保存</button>	

```
<template>
<div class="app-container">
<el-row :gutter="20">
<el-col :span="6">
<el-card class="box-card">
<template v-slot:header>
<div class="clearfix">
<span>个人信息</span>
</div>
</template>
<div>
```

```

<div class="text-center">
    修改头像
</div>
<ul class="list-group list-group-striped">
    <li class="list-group-item">
        <svg-icon icon="user" />&nbsp;&nbsp;用户名
        <div class="pull-right">{{currentUser.username}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="phone" />&nbsp;&nbsp;手机号码
        <div class="pull-right">{{currentUser.phonenumber}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="email" />&nbsp;&nbsp;用户邮箱
        <div class="pull-right">{{currentUser.email}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="peoples" />&nbsp;&nbsp;所属角色
        <div class="pull-right">{{currentUser.roles}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="date" />&nbsp;&nbsp;创建日期
        <div class="pull-right">
            {{formatDate(currentUser.loginDate)}}</div>
        </li>
    </ul>
</div>
</el-card>
</el-col>
<el-col :span="18">
    <el-card>
        <template v-slot:header>
            <div class="clearfix">
                <span>基本资料</span>
            </div>
        </template>
        <el-tabs v-model="activeTab">
            <el-tab-pane label="基本资料" name="userinfo">
                基本资料
            </el-tab-pane>
            <el-tab-pane label="修改密码" name="resetPwd">
                修改密码
            </el-tab-pane>
        </el-tabs>
    </el-card>
</el-col>
</el-row>
</div>
</template>

<script setup>
import {ref} from 'vue'
import store from '@/store'
import { formatDate } from '@/util/formatDate.js'

const currentUser = ref(store.getters.GET_USERINFO);

```

```

const activeTab = ref("userinfo");

</script>

<style lang="scss" scoped>

.list-group-striped>.list-group-item {
  border-left: 0;
  border-right: 0;
  border-radius: 0;
  padding-left: 0;
  padding-right: 0;
}

.list-group-item {
  border-bottom: 1px solid #e7eaec;
  border-top: 1px solid #e7eaec;
  margin-bottom: -1px;
  padding: 11px 0;
  font-size: 13px;
}

.pull-right{
  float: right!important;
}

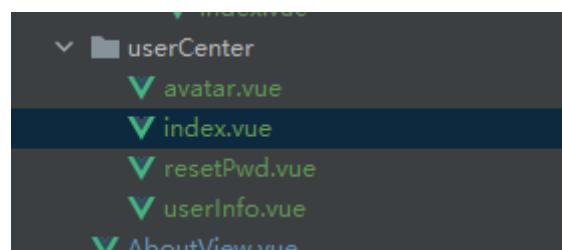
::v-deep .el-card__body{
  height:230px;
}

::v-deep .box-card{
  height:450px;
}
</style>

```

个人中心页面数据显示

新建 avatar.vue resetPwd.vue userInfo.vue



```

<script setup>
import avatar from './avatar'
import userInfo from './userInfo'
import resetPwd from './resetPwd'

```

```
<div class="text-center">
    <avatar/>
</div>
<ul class="list-group list-group-striped">
    <li class="list-group-item">
        <svg-icon icon="user" /> 用户名称
        <div class="pull-right">{{currentUser.username}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="phone" /> 手机号码
        <div class="pull-right">{{currentUser.phonenumber}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="email" /> 用户邮箱
        <div class="pull-right">{{currentUser.email}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="peoples" /> 所属角色
        <div class="pull-right">{{currentUser.roles}}</div>
    </li>
    <li class="list-group-item">
        <svg-icon icon="date" /> 创建日期
        <div class="pull-right">{{formatDate(currentUser.loginTime)}}</div>
    </li>
</ul>
</div>
</el-card>
</el-col>
<el-col :span="18">
    <el-card>
        <template v-slot:header>
            <div class="clearfix">
                <span>基本资料</span>
            </div>
        </template>
        <el-tabs v-model="activeTab">
            <el-tab-pane label="基本资料" name="userinfo">
                <userInfo/>
            </el-tab-pane>
            <el-tab-pane label="修改密码" name="resetPwd">
                <resetPwd/>
            </el-tab-pane>
        </el-tabs>
    </el-card>
</el-col>
```

```
/**  
 * 所属角色  
 */  
@TableField(exist = false)  
private String roles;
```

LoginSuccessHandler.java

加上

```
currentUser.setRoles(roleList.stream().map(SysRole::getName).collect(Collectors.  
joining(",")));
```

The screenshot shows a user profile page. On the left, there's a sidebar with '首页' and '个人中心'. The main content area has two tabs: '个人信息' (Personal Information) and '基本资料' (Basic Information). Under '个人信息', fields include '上传头像2', '用户名称' (java1234), '手机号码' (18862857417), '用户邮箱' (caofeng4017@126.com), '所属角色' (highlighted with a red box and labeled '超级管理员,普通角色'), and '创建日期' (2022-10-11 21:32:08). Under '基本资料', there are tabs for '基本资料' (selected) and '修改密码'. A sub-section '用户信息2' is also visible.

基本资料修改功能实现

userInfo.vue

```
<template>  
  <el-form ref="userRef" :model="form" :rules="rules" label-width="100px" >  
    <el-form-item label="手机号码: " prop="phonenumber">  
      <el-input v-model="form.phonenumber" maxlength="11" />  
    </el-form-item>  
    <el-form-item label="用户邮箱: " prop="email">  
      <el-input v-model="form.email" maxlength="50" />  
    </el-form-item>  
    <el-form-item>  
      <el-button type="primary" @click="handleSubmit">保存</el-button>  
    </el-form-item>  
  </el-form>  
</template>  
  
<script setup>
```

```

import {defineProps, ref} from "vue";
import requestUtil from "@/util/request";
import { ElMessage } from 'element-plus'
import store from "@/store";

const props=defineProps(
{
    user:{ 
        type:Object,
        default:()=>{},
        required:true
    }
}
)

const form=ref({
    id:-1,
    phononenumber:'',
    email:''
})

const userRef=ref(null)

const rules = ref([
    {
        required: true, message: "邮箱地址不能为空", trigger: "blur"
    }, {
        type: "email", message: "请输入正确的邮箱地址", trigger: ["blur", "change"]
    }
], [
    {
        required: true, message: "手机号码不能为空", trigger: "blur"
    }, {
        pattern: /^1[3|4|5|6|7|8|9][0-9]\d{8}$/, message: "请输入正确的手机号码", trigger: "blur"
    }
]);

form.value=props.user;

const handleSubmit=()=>{

    userRef.value.validate(async (valid)=>{
        if(valid) {
            let result = await requestUtil.post("sys/user/save", form.value);
            let data = result.data;
            if (data.code == 200) {
                ElMessage.success("执行成功！")
                store.commit("SET_USERINFO", form.value)
            }
        }
    })
}
}

</script>

<style lang="scss" scoped>

</style>

```

```

        </div>
    </template>
    <el-tabs v-model="activeTab">
        <el-tab-pane label="基本资料" name="userinfo">
            <userInfo :user="currentUser"/>
        </el-tab-pane>
        <el-tab-pane label="修改密码" name="resetPwd">
            <resetPwd/>

```

新建SysUserController

```

/**
 * 用户Controller控制器
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
@RestController
@RequestMapping("/sys/user")
public class SysUserController {

    @Autowired
    private SysUserService sysUserService;

    /**
     * 添加或者修改
     * @param sysUser
     * @return
     */
    @PostMapping("/save")

    @PreAuthorize("hasAuthority('system:user:add')"+|"+"hasAuthority('system:user:edit')")
    public R save(@RequestBody SysUser sysUser){
        if(sysUser.getId()==null || sysUser.getId() == -1){

            }else{
                sysUser.setUpdateTime(new Date());
                sysUserService.updateById(sysUser);
            }
            return R.ok();
        }
    }
}

```

修改密码功能实现

resetPwd.vue

```

<template>
    <el-form ref="pwdRef" :model="form" :rules="rules" label-width="80px">
        <el-form-item label="旧密码" prop="oldPassword">

```

```
<el-input v-model="form.oldPassword" placeholder="请输入旧密码"
type="password" show-password />
</el-form-item>
<el-form-item label="新密码" prop="newPassword">
    <el-input v-model="form.newPassword" placeholder="请输入新密码"
type="password" show-password />
</el-form-item>
<el-form-item label="确认密码" prop="confirmPassword">
    <el-input v-model="form.confirmPassword" placeholder="请确认密码"
type="password" show-password/>
</el-form-item>
<el-form-item>
    <el-button type="primary" @click="handleSubmit">保存</el-button>
</el-form-item>
</el-form>
</template>

<script setup>
import { defineProps, ref } from "vue";
import requestUtil from "@/util/request";
import { ElMessage } from 'element-plus'
import store from "@/store";

const props = defineProps(
{
    user: {
        type: Object,
        default: () => {},
        required: true
    }
}
)

const form = ref({
id: -1,
oldPassword: '',
newPassword: '',
confirmPassword: ''
})

const pwdRef = ref(null)

form.value = props.user;

const equalToPassword = (rule, value, callback) => {
if (form.value.newPassword !== value) {
    callback(new Error("两次输入的密码不一致"));
} else {
    callback();
}
};

const rules = ref([
oldPassword: [{ required: true, message: "旧密码不能为空", trigger: "blur" }],

```

```

newPassword: [{ required: true, message: "新密码不能为空", trigger: "blur" }, {
min: 6, max: 20, message: "长度在 6 到 20 个字符", trigger: "blur" }],
confirmPassword: [{ required: true, message: "确认密码不能为空", trigger: "blur" },
{ required: true, validator: equalToPassword, trigger: "blur" }]
});

const handleSubmit=()=>{

pwdRef.value.validate(async (valid)=>{
if(valid) {
let result = await requestUtil.post("sys/user/updateUserPwd", form.value);
let data = result.data;
if (data.code == 200) {
ElMessage.success("密码修改成功，下一次登录生效！")
store.commit("SET_USERINFO", form.value)
}else{
ElMessage.error(data.msg)
}
}
})
}
}

</script>

<style lang="scss" scoped>

</style>

```

```

@Autowired
BCryptPasswordEncoder bCryptPasswordEncoder;

```

SysUser

```

/**
 * 确认新密码
 */
@TableField(exist = false)
private String newPassword;

/**
 * 旧密码（前端传来的）
 */
@TableField(exist = false)
private String oldPassword;

```

后端SysUserController.java

```

/***

```

```

    * 修改密码
    * @param sysUser
    * @return
    */
    @PostMapping("/updateUserPwd")
    @PreAuthorize("hasAuthority('system:user:edit')")
    public R updateUserPwd(@RequestBody SysUser sysUser){
        SysUser currentUser = sysUserService.getById(sysUser.getId());

        if(bCryptPasswordEncoder.matches(sysUser.getOldPassword(),currentUser.getPassword())){
            currentUser.setPassword(bCryptPasswordEncoder.encode(sysUser.getNewPassword()));
            currentUser.setUpdateTime(new Date());
            sysUserService.updateById(currentUser);
        }else{
            return R.error("输入旧密码错误！");
        }
        return R.ok();
    }
}

```

头像更换功能实现

avatar.vue

```

<template>

<el-form
    ref="formRef"
    :model="form"
    label-width="100px"
    style="text-align: center;padding-bottom:10px">
    <el-upload
        :headers="headers"
        class="avatar-uploader"
        :action="getServerUrl()+'sys/user/uploadImage'"
        :show-file-list="false"
        :on-success="handleAvatarSuccess"
        :before-upload="beforeAvatarUpload">
        
        <el-icon v-else class="avatar-uploader-icon"><Plus /></el-icon>
    </el-upload>

    <el-button @click="handleConfirm" >确认更换</el-button>
</el-form>

</template>

```

```
<script setup>

import {defineProps, ref} from "vue";
import requestUtil,{getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'
import { Plus } from '@element-plus/icons-vue'
import store from "@/store";

const props=defineProps(
{
    user:{
        type:Object,
        default:()=>{},
        required:true
    }
}
)

const headers=ref({
    token:store.getters.GET_TOKEN
})

const form=ref({
    id:-1,
    avatar:''
})

const formRef=ref(null)

const imageUrl=ref("")

form.value=props.user;
imageUrl.value=getServerUrl()+'image/userAvatar/'+form.value.avatar

const handleAvatarSuccess=(res)=>{
    imageUrl.value=getServerUrl()+res.data.src
    form.value.avatar=res.data.title;
}

const beforeAvatarUpload = (file) => {
    const isJPG = file.type === 'image/jpeg'
    const isLt2M = file.size / 1024 / 1024 < 2

    if (!isJPG) {
        ElMessage.error('图片必须是jpg格式')
    }
    if (!isLt2M) {
        ElMessage.error('图片大小不能超过2M!')
    }
    return isJPG && isLt2M
}

const handleConfirm=async()=>{

    let result=await requestUtil.post("sys/user/updateAvatar",form.value);
```

```

        let data=result.data;
        if(data.code==200){
            ElMessage.success("执行成功!")
            store.commit("SET_USERINFO",form.value)
        }else{
            ElMessage.error(data.msg);
        }
    }

</script>

<style>

.avatar-uploader .el-upload {
    border: 1px dashed #d9d9d9;
    border-radius: 6px;
    cursor: pointer;
    position: relative;
    overflow: hidden;
}
.avatar-uploader .el-upload:hover {
    border-color: #409eff;
}
.el-icon.avatar-uploader-icon {
    font-size: 28px;
    color: #8c939d;
    width: 178px;
    height: 178px;
    text-align: center;
}
.avatar {
    width: 120px;
    height: 120px;
    display: block;
}

</style>

```

avatarImagesFilePath: D://java1234-admin2/userAvatar/

```

@Value("${avatarImagesFilePath}")
private String avatarImagesFilePath;

```

```

/**
 * 上传用户头像图片
 * @param file
 * @return
 * @throws Exception
 */
@RequestMapping("/uploadImage")
@PreAuthorize("hasAuthority('system:user:edit')")
public Map<String, Object> uploadImage(MultipartFile file) throws Exception{

```

```

Map<String, Object> resultMap = new HashMap<>();
if (!file.isEmpty()) {
    // 获取文件名
    String originalFilename = file.getOriginalFilename();
    String
suffixName = originalFilename.substring(originalFilename.lastIndexOf("."));
    String newFileName = DateUtil.getCurrentDateStr() + suffixName;
    FileUtils.copyInputStreamToFile(file.getInputStream(), new
File(avatarImagesFilePath + newFileName));
    resultMap.put("code", 0);
    resultMap.put("msg", "上传成功");
    Map<String, Object> dataMap = new HashMap<>();
    dataMap.put("title", newFileName);
    dataMap.put("src", "image/userAvatar/" + newFileName);
    resultMap.put("data", dataMap);
}
return resultMap;
}

```

```

/**
 * 修改用户头像
 * @param sysUser
 * @return
 */
@RequestMapping("/updateAvatar")
@PreAuthorize("hasAuthority('system:user:edit')")
public R updateAvatar(@RequestBody SysUser sysUser) {
    SysUser currentUser = sysUserService.getById(sysUser.getId());
    currentUser.setUpdateTime(new Date());
    currentUser.setAvatar(sysUser.getAvatar());
    sysUserService.updateById(currentUser);
    return R.ok();
}

```

用户管理实现

用户管理-列表分页显示实现

分页实体PageBean:

```

package com.java1234.entity;

/**
 * 分页Model类
 * @author java1234_小锋
 * @site www.java1234.com
 * @company Java知识分享网
 * @create 2020-02-16 上午 11:05
 */
public class PageBean {

    private int pageNum; // 第几页
    private int pageSize; // 每页记录数
}

```

```

private int start; // 起始页
private String query; // 查询参数

public PageBean() {
}

public PageBean(int pageNum, int pageSize, String query) {
    this.pageNum = pageNum;
    this.pageSize = pageSize;
    this.query = query;
}

public PageBean(int pageNum, int pageSize) {
    super();
    this.pageNum = pageNum;
    this.pageSize = pageSize;
}

public int getPageNum() {
    return pageNum;
}

public void setPageNum(int pageNum) {
    this.pageNum = pageNum;
}

public int getPageSize() {
    return pageSize;
}

public void setPageSize(int pageSize) {
    this.pageSize = pageSize;
}

public int getStart() {
    return (pageNum-1)*pageSize;
}

public String getQuery() {
    return query;
}

public void setQuery(String query) {
    this.query = query;
}
}

```

MybatisPlus开启分页功能：

```

package com.java1234.config;

import com.baomidou.mybatisplus.extension.plugins.PaginationInterceptor;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;

```

```

/**
 * MybatisPlus配置类
 * @author java1234_小锋
 * @site www.java1234.com
 * @company 南通小锋网络科技有限公司
 * @create 2022-01-30 8:10
 */
@Configuration
public class MybatisPlusConfig {

    @Bean
    public PaginationInterceptor paginationInterceptor(){
        return new PaginationInterceptor();
    }
}

```

SysUserController

```

/**
 * 根据条件分页查询用户信息
 * @param pageBean
 * @return
 */
@PostMapping("/list")
@PreAuthorize("hasAuthority('system:user:query')")
public R list(@RequestBody PageBean pageBean){
    Page<SysUser> pageResult = sysUserService.page(new Page<>
    (pageBean.getPageNum(), pageBean.getPageSize()));
    List<SysUser> userList = pageResult.getRecords();
    Map<String, Object> resultMap=new HashMap<>();
    resultMap.put("userList",userList);
    resultMap.put("total",pageResult.getTotal());
    return R.ok(resultMap);
}

```

前端user/index.vue

```

<template>
<div class="app-container">

    <el-table :data="tableData" stripe style="width: 100%">
        <el-table-column prop="username" label="用户名" width="180" />

    </el-table>
    <el-pagination
        v-model:currentPage="queryForm.pageNum"
        v-model:page-size="queryForm.pageSize"
        :page-sizes="[10, 20, 30, 40]"
        layout="total, sizes, prev, pager, next, jumper"
        :total="total"
        @size-change="handleSizeChange"
        @current-change="handleCurrentChange"
    />

```

```
</div>
</template>

<script setup>
import requestUtil,{getServerUrl} from "@/util/request";
import { ref } from 'vue'

const tableData=ref([]);
const total=ref(0)

const queryForm=ref({
  query:'',
  pageNum:1,
  pageSize:10
})

const initUserList=async()=>{
  const res=await requestUtil.post("sys/user/list",queryForm.value);
  tableData.value=res.data.userList;
  total.value=res.data.total;
}

initUserList();

const handleSizeChange=(pageSize)=>{
  queryForm.value.pageNum=1;
  queryForm.value.pageSize=pageSize;
  initUserList()
}

const handleCurrentChange=(pageNum)=>{
  queryForm.value.pageNum=pageNum;
  initUserList()
}

</script>

<style lang="scss" scoped>

.header{
  padding-bottom: 16px;
  box-sizing: border-box;
}

.el-pagination{
  float: right;
  padding: 20px;
  box-sizing: border-box;
}

::v-deep th.el-table__cell{
  word-break: break-word;
  background-color: #f8f8f9 !important;
  color: #515a6e;
  height: 40px;
  font-size: 13px;
}
```

```

}
.el-tag--small {
  margin-left: 5px;
}
</style>

```

elementplus国际化中文

```
// 国际化中文
import zhcn from 'element-plus/es/locale/lang/zh-cn'
```

```
app.use(ElementPlus, {
  locale: zhcn,
})
```

用户管理-搜索功能实现

用户列表									
用户管理									
操作									
头像	用户名	现有角色	邮箱	手机号	状态	创建时间	最后登录时间	备注	操作
	java1234	超级管理员 普通角色	caofeng4017@126.com	18862857417	<input checked="" type="checkbox"/> 正常	2022-06-09 08:47:52	2022-10-16 20:39:28	备注	分配角色
	common	普通角色			<input checked="" type="checkbox"/> 正常		2022-08-22 21:34:39		分配角色 重置密码 编辑 删除
	test	测试角色 普通角色			<input checked="" type="checkbox"/> 正常		2022-07-24 17:36:07		分配角色 重置密码 编辑 删除
	1	测试角色			<input checked="" type="checkbox"/> 正常				分配角色 重置密码 编辑 删除
	2	测试角色			<input checked="" type="checkbox"/> 正常				分配角色 重置密码 编辑 删除
	fdts	测试角色	fdts4@qq.com	18862851414	<input checked="" type="checkbox"/> 正常	2022-06-02 02:21:24	2022-06-02 02:22:45	fdts4	分配角色 重置密码 编辑 删除
	sdts2	普通角色 测试角色	sdts3@qq.com	18862857413	<input checked="" type="checkbox"/> 正常	2022-06-07 00:42:46		sdts3	分配角色 重置密码 编辑 删除
	ccc	ccc测试	3242@qq.com	188628584120	<input checked="" type="checkbox"/> 正常	2022-06-29 17:04:58	2022-06-29 19:52:27	xxx	分配角色 重置密码 编辑 删除
	cc0666	今天测试角色	fdafds@qq.com	18865259845	<input checked="" type="checkbox"/> 正常	2022-06-29 22:00:39	2022-06-29 22:05:18	ccc	分配角色 重置密码 编辑 删除

共 9 条 10条/页 < 1 > 前往 1 页

前端需要显示角色信息

SysUser实体加字段

```

/**
 * 所有角色集合
 */
@TableField(exist = false)
private List<SysRole> sysRoleList;

```

```

/**
 * 根据条件分页查询用户信息
 * @param pageBean
 * @return
 */
@PostMapping("/list")

```

```

@PreAuthorize("hasAuthority('system:user:query')")
public R list(@RequestBody PageBean pageBean){
    String query=pageBean.getQuery().trim();
    Page<SysUser> pageResult = sysUserService.page(new Page<>
    (pageBean.getPageNum(), pageBean.getPageSize()),new QueryWrapper<SysUser>
    ().like(StringUtils.isNotEmpty(query), "username", query));
    List<SysUser> userList = pageResult.getRecords();
    for(SysUser user:userList){
        List<SysRole> roleList = sysRoleService.list(new QueryWrapper<SysRole>
        ().inSql("id", "select role_id from sys_user_role where user_id=" +
        user.getId()));
        user.setSysRoleList(roleList);
    }
    Map<String, Object> resultMap=new HashMap<>();
    resultMap.put("userList",userList);
    resultMap.put("total",pageResult.getTotal());
    return R.ok(resultMap);
}

```

```

<template>
<div class="app-container">

    <el-row :gutter="20" class="header">
        <el-col :span="7">
            <el-input placeholder="请输入用户名..." v-model="queryForm.query" clearable
        ></el-input>
        </el-col>
        <el-button type="primary" :icon="Search" @click="initUserList">搜索</el-
button>
    </el-row>

    <el-table :data="tableData" stripe style="width: 100%">
        <el-table-column type="selection" width="55" />
        <el-table-column prop="avatar" label="头像" width="80" align="center">
            <template v-slot="scope">
                
            </template>
        </el-table-column>
        <el-table-column prop="username" label="用户名" width="100"
align="center"/>
        <el-table-column prop="roles" label="拥有角色" width="200" align="center">
            <template v-slot="scope">
                <el-tag size="small" type="warning" v-for="item in
scope.row.sysRoleList"> {{item.name}}</el-tag>
            </template>
        </el-table-column>
        <el-table-column prop="email" label="邮箱" width="200" align="center"/>
        <el-table-column prop="phonenumber" label="手机号" width="120"
align="center"/>
        <el-table-column prop="status" label="状态?" width="200" align="center"
>
            <template v-slot="{row}" >
                <el-switch v-model="row.status" @change="statusChangeHandle(row)"
active-text="正常"

```

```
        inactive-text="禁用" active-value="0" inactive-value="1">
</el-switch>
      </template>
    </el-table-column>
    <el-table-column prop="createTime" label="创建时间" width="200"
align="center"/>
    <el-table-column prop="loginDate" label="最后登录时间" width="200"
align="center"/>
    <el-table-column prop="remark" label="备注" />
    <el-table-column prop="action" label="操作" width="400" fixed="right"
align="center">
      <template v-slot="scope" >
        <el-button type="primary" :icon="Tools" >分配角色</el-button>

      </template>
    </el-table-column>
  </el-table>
  <el-pagination
    v-model:currentPage="queryForm.pageNum"
    v-model:page-size="queryForm.pageSize"
    :page-sizes="[10, 20, 30, 40]"
    layout="total, sizes, prev, pager, next, jumper"
    :total="total"
    @size-change="handleSizeChange"
    @current-change="handleCurrentChange"
  />
</div>
</template>

<script setup>
import { Search ,Delete,DocumentAdd ,Edit, Tools, RefreshRight} from '@element-plus/icons-vue'
import requestUtil,{getServerUrl} from "@util/request";
import { ref } from 'vue'

const tableData=ref([]);
const total=ref(0)

const queryForm=ref({
  query:'',
  pageNum:1,
  pageSize:10
})

const initUserList=async()=>{
  const res=await requestUtil.post("sys/user/list",queryForm.value);
  tableData.value=res.data.userList;
  total.value=res.data.total;
}

initUserList();

const handleSizeChange=(pageSize)=>{
  queryForm.value.pageNum=1;
  queryForm.value.pageSize=pageSize;
}
```

```
    initUserList()
}

const handleCurrentChange=(pageNum)=>{
  queryForm.value.pageNum=pageNum;
  initUserList()
}

</script>

<style lang="scss" scoped>

.header{
  padding-bottom: 16px;
  box-sizing: border-box;
}

.el-pagination{
  float: right;
  padding: 20px;
  box-sizing: border-box;
}

::v-deep th.el-table__cell{
  word-break: break-word;
  background-color: #f8f8f9 !important;
  color: #515a6e;
  height: 40px;
  font-size: 13px;
}

.el-tag--small {
  margin-left: 5px;
}
</style>
```

用户管理-添加修改功能实现

用户名管理

头像	用户名	拥有角色	邮箱	手机号	状态?
	java1234	超级管理员			<input checked="" type="radio"/> 正常
	common	普通角色			<input checked="" type="radio"/> 正常
	test	测试角色			<input checked="" type="radio"/> 正常
	1	测试角色			<input checked="" type="radio"/> 正常
	2	测试角色			<input checked="" type="radio"/> 正常
	fdsfs	测试角色			<input checked="" type="radio"/> 正常
	sdfss2	普通角色			<input checked="" type="radio"/> 正常
	ccc	ccc测试			<input checked="" type="radio"/> 正常
	ccc666	0 今天测试角色	fdafds@qq.com	18865259845	<input checked="" type="radio"/> 禁用

用户添加

* 用户名	<input type="text"/>
默认初始密码: 123456	
* 手机号	<input type="text"/>
* 邮箱	<input type="text"/>
状态	<input checked="" type="radio"/> 正常 <input type="radio"/> 禁用
备注	<input type="text"/>

确认 取消

用户修改

* 用户名	<input type="text" value="test2"/>
* 手机号	<input type="text" value="15584125142"/>
* 邮箱	<input type="text" value="112@qq.com"/>
状态	<input type="radio"/> 正常 <input checked="" type="radio"/> 禁用
备注	<input type="text" value="ss2"/>

确认 取消

后端提供一个API

添加或者修改:

```
/***
```

```

    * 添加或者修改
    * @param sysUser
    * @return
    */
    @PostMapping("/save")
    @PreAuthorize("hasAuthority('system:user:add')"+ || +"hasAuthority('system:user:edit')")
    public R save(@RequestBody SysUser sysUser){
        if(sysUser.getId()==null || sysUser.getId()==-1){
            sysUser.setCreateTime(new Date());
        }

        sysUser.setPassword(bCryptPasswordEncoder.encode(sysUser.getPassword()));
        sysUserService.save(sysUser);
    }else{
        sysUser.setUpdateTime(new Date());
        sysUserService.updateById(sysUser);
    }
    return R.ok();
}

```

修改功能，需要根据id查询数据

```

/**
 * 根据id查询
 * @param id
 * @return
 */
@GetMapping("/{id}")
@PreAuthorize("hasAuthority('system:user:query')")
public R findById(@PathVariable(value = "id") Integer id){
    SysUser sysUser = sysUserService.getById(id);
    Map<String, Object> map=new HashMap<>();
    map.put("sysUser",sysUser);
    return R.ok(map);
}

```

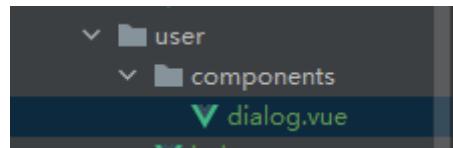
添加用户，需要验证用户名是否重复

```

/**
 * 验证用户名
 * @param sysUser
 * @return
 */
@PostMapping("/checkUserName")
@PreAuthorize("hasAuthority('system:user:query')")
public R checkUserName(@RequestBody SysUser sysUser){
    if(sysUserService.getByUsername(sysUser.getUsername())==null){
        return R.ok();
    }else{
        return R.error();
    }
}

```

前端，新建一个 dialog.vue 作为用户添加和修改页面组件



```
<template>

<el-dialog
  v-model="dialogVisible"
  :title="dialogTitle"
  width="30%"
  @close=" handleClose"
>
  <el-form
    ref="formRef"
    :model="form"
    :rules="rules"
    label-width="100px"
  >
    <el-form-item label="用户名" prop="username">
      <el-input v-model="form.username" :disabled="form.id === -1 ? false : 'disabled'" />
      <el-alert
        v-if="form.id === -1"
        title="默认初始密码: 123456"
        :closable="false"
        style="line-height: 10px;"
        type="success" >
      </el-alert>
    </el-form-item>

    <el-form-item label="手机号" prop="phonenumber">
      <el-input v-model="form.phonenumber" />
    </el-form-item>

    <el-form-item label="邮箱" prop="email">
      <el-input v-model="form.email" />
    </el-form-item>

    <el-form-item label="状态" prop="status">
      <el-radio-group v-model="form.status">
        <el-radio :label="''0''>正常</el-radio>
        <el-radio :label="''1''>禁用</el-radio>
      </el-radio-group>
    </el-form-item>

    <el-form-item label="备注" prop="remark">
      <el-input v-model="form.remark" type="textarea" :rows="4"/>
    </el-form-item>
  </el-form>
  <template #footer>
```

```
<span class="dialog-footer">
    <el-button type="primary" @click="handleConfirm">确认</el-button>
    <el-button @click="handleClose"
        >取消</el-button>
    >
</span>
</template>
</el-dialog>

</template>

<script setup>
import {defineEmits, defineProps, ref, watch} from "vue"
import requestUtil, {getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const props=defineProps(
{
    id:{ 
        type:Number,
        default:-1,
        required:true
    },
    dialogTitle:{ 
        type:String,
        default:'',
        required:true
    },
    dialogVisible:{ 
        type:Boolean,
        default:false,
        required:true
    }
}
)

const form=ref({
    id:-1,
    username:"",
    password:"123456",
    status:"0",
    phonenumber:"",
    email:"",
    remark:""
})

const checkUsername = async (rule, value, callback) => {
    if(form.value.id== -1){
        const res=await requestUtil.post("sys/user/checkUserName",
        {username:form.value.username});
        if (res.data.code==500) {
            callback(new Error("用户名已存在！"));
        } else {
            callback();
        }
    }else{
        callback();
    }
}
```

```

}

const rules=ref({
  username:[
    { required: true, message: '请输入用户名' },
    { required: true, validator: checkUsername, trigger: "blur" }
  ],
  email: [{ required: true, message: "邮箱地址不能为空", trigger: "blur" }, { type: "email", message: "请输入正确的邮箱地址", trigger: ["blur", "change"] }],
  phononenumber: [{ required: true, message: "手机号码不能为空", trigger: "blur" }, { pattern: /^1[3|4|5|6|7|8|9][0-9]\d{8}$/, message: "请输入正确的手机号码", trigger: "blur" }],
})
}

const formRef=ref(null)

const initFormData=async(id)=>{
  const res=await requestUtil.get("sys/user/"+id);
  form.value=res.data.sysUser;
}

watch(
  ()=>props.dialogVisible,
  ()=>{
    let id=props.id;
    console.log("id="+id)
    if(id!==-1){
      initFormData(id);
    }else{
      form.value={
        id:-1,
        username:"",
        password:"123456",
        status:"0",
        phononenumber:"",
        email:"",
        remark:""
      }
    }
  }
)

const emits=defineEmits(['update:modelValue','initUserList'])

const handleClose=()=>{
  emits('update:modelValue',false)
}

const handleConfirm=()=>{
  formRef.value.validate(async(valid)=>{
    if(valid){
      let result=await requestUtil.post("sys/user/save",form.value);
      let data=result.data;
      if(data.code==200){
        ElMessage.success("执行成功！")
        formRef.value.resetFields();
      }
    }
  })
}

```

```

        emits("initUserList")
        handleClose();
    }else{
        ElMessage.error(data.msg);
    }
}else{
    console.log("fail")
}
})
}

</script>

<style lang="scss" scoped>

</style>

```

index.vue页面

```
<el-button type="success" :icon="DocumentAdd" @click="handleDialogValue()">新增</el-button>
```

```

<el-row :gutter="20" class="header">
    <el-col :span="7">
        <el-input placeholder="请输入用户名..." v-model="queryForm.query" clearable></el-input>
    </el-col>
    <el-button type="primary" :icon="Search" @click="initUserList">搜索</el-button>
    <el-button type="success" :icon="DocumentAdd" @click="handleDialogValue()">新增</el-button>
</el-row>

```

```
<el-button v-if="scope.row.username != 'java1234'" type="primary" :icon="Edit"
@click="handleDialogValue(scope.row.id)" />
```

```

<el-table-column prop="remark" label="备注" />
<el-table-column prop="action" label="操作" width="400" fixed="right" align="center">
<template v-slot="scope" >
    <el-button type="primary" :icon="Tools" >分配角色</el-button>
    <el-button v-if="scope.row.username != 'java1234'" type="primary" :icon="Edit" @click="handleDialogValue(scope.row.id)" />
</template>
</el-table-column>

```

添加和修改按钮

```
import Dialog from './components/dialog'
```

```
<Dialog v-model="dialogVisible" :dialogVisible="dialogVisible" :id="id"
:dialogTitle="dialogTitle" @initUserList="initUserList"/>
```

```
</div>
<Dialog v-model="dialogVisible" :dialogVisible="dialogVisible" :id="id" :dialogTitle="dialogTitle" @initUserList="initUserList"/>
</template>

<script setup>
import { Search, Delete, DocumentAdd, Edit, Tools, RefreshRight } from '@element-plus/icons-vue'
import requestUtil, {getServerUrl} from "@/util/request";
import { ref } from 'vue'
import Dialog from './components/dialog'
```

```
const dialogVisible=ref(false)

const dialogTitle=ref("")

const id=ref(-1)
```

```
const handleDialogValue=(userId)=>{
  if(userId){
    id.value=userId;
    dialogTitle.value="用户修改"
  }else{
    id.value=-1;
    dialogTitle.value="用户添加"
  }
  dialogVisible.value=true
}
```

用户管理-删除和批量删除功能实现

后端：

```
/**
 * 删除
 * @param ids
 * @return
 */
@Transactional
@PostMapping("/delete")
@PreAuthorize("hasAuthority('system:user:delete')")
public R delete(@RequestBody Long[] ids){
    sysUserService.removeByIds(Arrays.asList(ids));
    sysUserRoleService.remove(new QueryWrapper<SysUserRole>
        () .in("user_id",ids));
    return R.ok();
}
```

前端：

```
<el-popconfirm title="您确定批量删除这些记录吗? " @confirm="handleDelete(null)">
  <template #reference>
    <el-button type="danger" :disabled="delBtnStatus" :icon="Delete" >批量删除</el-
  button>
</template>
</el-popconfirm>
```

```
const delBtnStatus=ref(true)
```

表格复选框选中事件：

```
@selection-change="handleSelectionChange"
```

```
<el-table :data="tableData" stripe style="width: 100%" @selection-change="handleSelectionChange">
  <el-table-column type="selection" width="55" />
```

定义 选中的行

```
const multipleSelection=ref([])
```

```
const handleSelectionChange=(selection)=>{
  console.log("勾选了")
  console.log(selection)
  multipleSelection.value=selection;
  delBtnStatus.value=selection.length==0;
}
```

行上面的删除按钮

```
<el-popconfirm v-if="scope.row.username!='java1234'" title="您确定要删除这条记录
吗? " @confirm="handleDelete(scope.row.id)">
  <template #reference>
    <el-button type="danger" :icon="Delete" />
  </template>
</el-popconfirm>
```

```
import { ElMessage, ElMessageBox } from 'element-plus'
```

```
const handleDelete=async (id)=>{
  var ids = []
```

```

if(id){
  ids.push(id)
}else{
  multipleSelection.value.forEach(row=>{
    ids.push(row.id)
  })
}
const res=await requestUtil.post("sys/user/delete",ids)
if(res.data.code==200){
  ElMessage({
    type: 'success',
    message: '执行成功!'
  })
  init userList();
}else{
  ElMessage({
    type: 'error',
    message: res.data.msg,
  })
}
}
}

```

用户管理-用户信息重置密码和状态更新功能实现

后端 重置密码：

```

/**
 * 重置密码
 * @param id
 * @return
 */
@GetMapping("/resetPassword/{id}")
@PreAuthorize("hasAuthority('system:user:edit')")
public R resetPassword(@PathVariable(value = "id")Integer id){
  SysUser sysUser = sysUserService.getById(id);

  sysUser.setPassword(bCryptPasswordEncoder.encode(Constant.DEFAULT_PASSWORD));
  sysUser.setUpdateTime(new Date());
  sysUserService.updateById(sysUser);
  return R.ok();
}

```

```

package com.java1234.common.constant;

/**
 * 通用常量信息
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
public class Constant {

    public final static String DEFAULT_PASSWORD="123456";
}

```

```

/**
 * 更新status状态
 * @param id
 * @param status
 * @return
 */
@GetMapping("/updateStatus/{id}/status/{status}")
@PreAuthorize("hasAuthority('system:user:edit')")
public R updateStatus(@PathVariable(value = "id")Integer id,@PathVariable(value = "status")String status){
    SysUser sysUser = sysUserService.getById(id);
    sysUser.setStatus(status);
    sysUserService.saveOrUpdate(sysUser);
    return R.ok();
}

```

前端：

```

<el-popconfirm v-if="scope.row.username!='java1234'" title="您确定要对这个用户重置密码吗? " @confirm="handleResetPassword(scope.row.id)">
  <template #reference>
    <el-button type="warning" :icon="RefreshRight" >重置密码</el-button>
  </template>
</el-popconfirm>

```

```

const handleResetPassword=async (id)=>{
  const res=await requestUtil.get("sys/user/resetPassword/"+id)
  if(res.data.code==200){
    ElMessage({
      type: 'success',
      message: '执行成功!'
    })
    initUserList();
  }else{
    ElMessage({
      type: 'error',

```

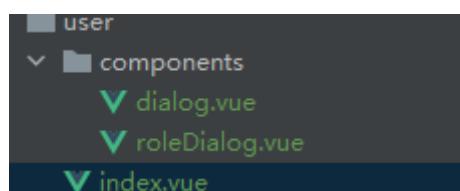
```
        message: res.data.msg,
    })
}
}
```

```
const statusChangeHandle=async (row)=>{
    let res=await
requestUtil.get("sys/user/updateStatus/"+row.id+"/status/"+row.status);
    if(res.data.code==200){
        ElMessage({
            type: 'success',
            message: '执行成功!'
        })
    }else{
        ElMessage({
            type: 'error',
            message: res.data.msg,
        })
        initUserList();
    }
}
```

用户管理-用户分配角色功能实现



新建 roleDialog.vue



```
import RoleDialog from './components/roleDialog'
```

```
<RoleDialog v-model="roleDialogVisible" :sysRoleList="sysRoleList"
:roleDialogVisible="roleDialogVisible" :id="id" @initUserList="initUserList">
</RoleDialog>
```

```
const sysRoleList=ref([])
const roleDialogVisible=ref(false)
```

```
<el-button type="primary" :icon="Tools"
@click="handleRoleDialogValue(scope.row.id,scope.row.sysRoleList)">分配角色</el-
button>
```

```
const handleRoleDialogValue=(userId,roleList)=>{
  console.log("userId="+userId)
  id.value=userId;
  sysRoleList.value=roleList;
  roleDialogVisible.value=true
}
```

```
<template>
  <el-dialog
    model-value="roleDialogVisible"
    title="分配角色"
    width="30%"
    @close="handleClose"
  >

    <el-form
      ref="formRef"
      :model="form"
      label-width="100px"
    >

      <el-checkbox-group v-model="form.checkedRoles">
        <el-checkbox v-for="role in form.roleList" :id="role.id" :key="role.id"
:label="role.id"  name="checkedRoles" >{{role.name}}</el-checkbox>
      </el-checkbox-group>

    </el-form>

    <template #footer>
      <span class="dialog-footer">
        <el-button type="primary" @click="handleConfirm">确认</el-button>
        <el-button  @click="handleClose">取消</el-button>
      </span>
    </template>
  
```

```

        </el-dialog>
    </template>

    <script setup>

import { defineEmits, defineProps, ref, watch } from "vue";
import requestUtil,{getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const props=defineProps(
{
    id:{
        type:Number,
        default:-1,
        required:true
    },
    roleDialogVisible:{
        type:Boolean,
        default:false,
        required:true
    },
    sysRoleList:{
        type:Array,
        default:[],
        required:true
    }
}
)

const form=ref({
    id:-1,
    roleList:[],
    checkedRoles:[]
})

const formRef=ref(null)

const initFormData=async(id)=>{
    const res=await requestUtil.get("sys/role/listAll");
    form.value.roleList=res.data.roleList;
    form.value.id=id;
}

watch(
    ()=>props.roleDialogVisible,
    ()=>{
        let id=props.id;
        console.log("id="+id)
        if(id!=-1){
            form.value.checkedRoles=[]
            props.sysRoleList.forEach(item=>{
                form.value.checkedRoles.push(item.id);
            })
            initFormData(id)
        }
    }
)

```

```

        }
    }
}

const emits=defineEmits(['update:modelValue','initUserList'])

const handleClose=()=>{
    emits('update:modelValue',false)
}

const handleConfirm=()=>{
    formRef.value.validate(async(valid)=>{
        if(valid){
            let result=await
requestUtil.post("sys/user/grantRole/"+form.value.id,form.value.checkedRoles);
            let data=result.data;
            if(data.code==200){
                ElMessage.success("执行成功!")
                emits("initUserList")
                handleClose();
            }else{
                ElMessage.error(data.msg);
            }
        }else{
            console.log("fail")
        }
    })
}
}

</script>

<style scoped>

</style>

```

```

/**
 * 系统角色Controller控制器
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
@RestController
@RequestMapping("/sys/role")
public class SysRoleController {

    @Autowired
    private SysRoleService sysRoleService;

    @GetMapping("/listAll")
    @PreAuthorize("hasAuthority('system:role:query')")
    public R listAll(){
        Map<String, Object> resultMap=new HashMap<>();
        List<SysRole> roleList = sysRoleService.list();
        resultMap.put("list", roleList);
        return Result.ok(resultMap);
    }
}

```

```
        resultMap.put("roleList",roleList);
        return R.ok(resultMap);
    }
}
```

```
/**
 * 用户角色授权
 * @param userId
 * @param roleIds
 * @return
 */
@Transactional
@PostMapping("/grantRole/{userId}")
@PreAuthorize("hasAuthority('system:user:role')")
public R grantRole(@PathVariable("userId") Long userId,@RequestBody Long[] roleIds){
    List<SysUserRole> userRoleList=new ArrayList<>();
    Arrays.stream(roleIds).forEach(r -> {
        SysUserRole sysUserRole = new SysUserRole();
        sysUserRole.setRoleId(r);
        sysUserRole.setUserId(userId);
        userRoleList.add(sysUserRole);
    });
    sysUserRoleService.remove(new QueryWrapper<SysUserRole>()
        .eq("user_id",userId));
    sysUserRoleService.saveBatch(userRoleList);
    return R.ok();
}
```

角色管理实现

角色管理-根据条件列表分页显示实现

后端

```
/**
 * 根据条件分页查询角色信息
 * @param pageBean
 * @return
 */
@PostMapping("/list")
@PreAuthorize("hasAuthority('system:role:query')")
public R list(@RequestBody PageBean pageBean){
    String query=pageBean.getQuery().trim();
    Page<SysRole> pageResult = sysRoleService.page(new Page<>
        (pageBean.getPageNum(), pageBean.getPageSize()),new QueryWrapper<SysRole>
        ().like(StringUtil.isNotEmpty(query), "name",query));
    List<SysRole> userList = pageResult.getRecords();
    Map<String, Object> resultMap=new HashMap<>();
    resultMap.put("roleList",userList);
    resultMap.put("total",pageResult.getTotal());
```

```
        return R.ok(resultMap);
    }
```

前端 从user index.vue复制一份改改 user改成role User改成Role

```
<el-table :data="tableData" stripe style="width: 100%" @selection-change="handleSelectionChange">
    <el-table-column type="selection" width="55" />

    <el-table-column prop="name" label="角色名" width="100" align="center"/>

    <el-table-column prop="code" label="权限字符" width="200" align="center"/>

    <el-table-column prop="createTime" label="创建时间" width="200" align="center"/>

    <el-table-column prop="remark" label="备注" />
    <el-table-column prop="action" label="操作" width="400" fixed="right" align="center">
        <template v-slot="scope" >
            <el-button type="primary" :icon="Tools"
@click="handleRoleDialogValue(scope.row.id,scope.row.sysRoleList)">分配权限</el-button>

            <el-button v-if="scope.row.code!='admin'" type="primary" :icon="Edit"
@click="handleDialogValue(scope.row.id)" />
            <el-popconfirm v-if="scope.row.code!='admin'" title="您确定要删除这条记录吗？"
@confirm="handleDelete(scope.row.id)">
                <template #reference>
                    <el-button type="danger" :icon="Delete" />
                </template>
            </el-popconfirm>
        </template>
    </el-table-column>
</el-table>
```

角色管理-添加修改功能实现

后端：

```
/**
 * 添加或者修改
 * @param sysRole
 * @return
 */
@PostMapping("/save")
@PreAuthorize("hasAuthority('system:role:add')"+||+"hasAuthority('system:role:edit')")
public R save(@RequestBody SysRole sysRole){
    if(sysRole.getId()==null || sysRole.getId() == -1){
        sysRole.setCreateTime(new Date());
        sysRoleService.save(sysRole);
    }else{
        sysRole.setUpdateTime(new Date());
    }
}
```

```
        sysRoleService.updateById(sysRole);
    }
    return R.ok();
}
```

```
/***
 * 根据id查询
 * @param id
 * @return
 */
@GetMapping("/{id}")
@PreAuthorize("hasAuthority('system:role:query')")
public R findById(@PathVariable(value = "id") Integer id){
    SysRole sysRole = sysRoleService.getById(id);
    Map<String, Object> map=new HashMap<>();
    map.put("sysRole",sysRole);
    return R.ok(map);
}
```

前端：

dialog.vue

```
<template>

<el-dialog
  v-model="dialogVisible"
  :title="dialogTitle"
  width="30%"
  @close="handleClose">
  <el-form
    ref="formRef"
    :model="form"
    :rules="rules"
    label-width="100px">
    <el-form-item label="角色名称" prop="name">
      <el-input v-model="form.name" />
    </el-form-item>

    <el-form-item label="权限字符" prop="code">
      <el-input v-model="form.code" />
    </el-form-item>

    <el-form-item label="备注" prop="remark">
      <el-input v-model="form.remark" type="textarea" :rows="4"/>
    </el-form-item>
  </el-form>
  <template #footer>
```

```
<span class="dialog-footer">
    <el-button type="primary" @click="handleConfirm">确认</el-button>
    <el-button @click="handleClose"
        >取消</el-button>
    >
</span>
</template>
</el-dialog>

</template>

<script setup>
import {defineEmits, defineProps, ref, watch} from "vue"
import requestUtil, {getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const props=defineProps(
{
    id:{ 
        type:Number,
        default:-1,
        required:true
    },
    dialogTitle:{ 
        type:String,
        default:'',
        required:true
    },
    dialogVisible:{ 
        type:Boolean,
        default:false,
        required:true
    }
}
)

const form=ref({
    id:-1,
    name:"",
    code:"",
    remark:""
})

const rules=ref({
    name:[
        { required: true, message: '请输入角色名称'}
    ],
    code:[
        { required: true, message: '请输入权限字符'}
    ]
})

const formRef=ref(null)

const initFormData=async(id)=>{
    const res=await requestUtil.get("sys/role/"+id);
```

```

        form.value=res.data.sysRole;
    }

watch(
    ()=>props.dialogVisible,
    ()=>{
        let id=props.id;
        console.log("id="+id)
        if(id!==-1){
            initFormData(id);
        }else{
            form.value={
                id:-1,
                name:"",
                code:"",
                remark:""
            }
        }
    }
)

const emits=defineEmits(['update:modelValue','initRoleList'])

const handleClose=()=>{
    emits('update:modelValue',false)
}

const handleConfirm=()=>{
    formRef.value.validate(async(valid)=>{
        if(valid){
            let result=await requestUtil.post("sys/role/save",form.value);
            let data=result.data;
            if(data.code==200){
                ElMessage.success("执行成功！")
                formRef.value.resetFields();
                emits("initRoleList")
                handleClose();
            }else{
                ElMessage.error(data.msg);
            }
        }else{
            console.log("fail")
        }
    })
}

</script>

<style lang="scss" scoped>

</style>

```

角色管理-删除和批量删除功能实现

后端

```
/***
 * 删除
 * @param ids
 * @return
 */
@Transactional
@PostMapping("/delete")
@PreAuthorize("hasAuthority('system:role:delete')")
public R delete(@RequestBody Long[] ids){
    sysRoleService.removeByIds(Arrays.asList(ids));
    sysUserRoleService.remove(new Querywrapper<SysUserRole>
        () .in("role_id",ids));
    return R.ok();
}
```

角色管理-显示权限菜单树

```
/***
 * 系统菜单Controller控制器
 * @author java1234_小锋 (公众号: java1234)
 * @site www.java1234.vip
 * @company 南通小锋网络科技有限公司
 */
@RestController
@RequestMapping("/sys/menu")
public class SysMenuController {

    @Autowired
    private SysMenuService sysMenuService;

    /**
     * 查询所有菜单树信息
     * @return
     */
    @RequestMapping("/list")
    @PreAuthorize("hasAuthority('system:menu:query')")
    public R list(){
        List<SysMenu> menuList = sysMenuService.list(new QueryWrapper<SysMenu>
            () .orderByAsc("order_num"));
        return R.ok().put("treeMenu",sysMenuService.buildTreeMenu(menuList));
    }
}
```

menuDialog

```
<template>
<el-dialog
    model-value="menuDialogVisible"
    title="分配权限"
    width="30%">
```

```
@close="handleClose"
>

<el-form
  ref="formRef"
  :model="form"
  label-width="100px"
>

  <el-tree
    ref="treeRef"
    :data="treeData"
    :props="defaultProps"
    show-checkbox
    :default-expand-all=true
    node-key="id"
    :check-strictly=true
  />

</el-form>

<template #footer>
  <span class="dialog-footer">
    <el-button type="primary" @click="handleConfirm">确认</el-button>
    <el-button @click="handleClose">取消</el-button>
  </span>
</template>
</el-dialog>
</template>

<script setup>

import { defineEmits, defineProps, ref, watch } from "vue";
import requestUtil,{getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const defaultProps = {
  children: 'children',
  label: 'name'
}

const props=defineProps(
{
  id:{
    type:Number,
    default:-1,
    required:true
  },
  menuDialogVisible:{
    type:Boolean,
    default:false,
    required:true
  }
}
)
```

```

const form=ref({
  id:-1
})

const treeData=ref([])

const formRef=ref(null)

const initFormData=async(id)=>{
  const res=await requestUtil.get("sys/menu/list");
  treeData.value=res.data.treeMenu;
  form.value.id=id;
}

watch(
  ()=>props.menuDialogVisible,
  ()=>{
    let id=props.id;
    console.log("id="+id)
    if(id!=-1){
      initFormData(id)
    }
  }
)

const emits=defineEmits(['update:modelValue','initRoleList'])

const handleClose=()=>{
  emits('update:modelValue',false)
}

const handleConfirm=()=>{
  formRef.value.validate(async(valid)=>{
    if(valid){
      let result=await
      requestUtil.post("sys/user/grantRole/"+form.value.id,form.value.checkedRoles);
      let data=result.data;
      if(data.code==200){
        ElMessage.success("执行成功!")
        emits("initUserList")
        handleClose();
      }else{
        ElMessage.error(data.msg);
      }
    }else{
      console.log("fail")
    }
  })
}

</script>

<style scoped>

</style>

```

index.vue

```
prop="action" label="操作" width="400" fixed="right" align="center">
"scope" >
e="primary" :icon="Tools" @click="handleMenuDialogValue(scope.row.id)">分配权限</el-button>
="scope.row.code!='admin'" type="primary" :icon="Edit" @click="handleDialogValue(scope.row.id)" />
v-if="scope.row.code!='admin'" title="您确定要删除这条记录吗？" @confirm="handleDelete(scope.row.id)">

<MenuDialog v-model="menuDialogVisible" :menuDialogVisible="menuDialogVisible"
:id="id" @initRoleList="initRoleList"></MenuDialog>

import MenuDialog from './components/menuDialog'

const menuDialogVisible=ref(false);

const handleMenuDialogValue=(roleId)=>{
  if(roleId){
    id.value=roleId;
  }
  menuDialogVisible.value=true
}
```

角色管理-分配功能实现

后端：

```
/**
 * 获取当前角色的权限菜单ID集合
 * @param id
 * @return
 */
@GetMapping("/menus/{id}")
@PreAuthorize("hasAuthority('system:role:menu')")
public R menus(@PathVariable(value = "id") Integer id){
    List<SysRoleMenu> roleMenuList = sysRoleMenuService.list(new
QueryWrapper<SysRoleMenu>().eq("role_id", id));
    List<Long> menuIdList = roleMenuList.stream().map(p ->
p.getMenuItemId()).collect(Collectors.toList());
    return R.ok().put("menuIdList", menuIdList);
}

/**
 * 更新角色权限信息
 * @param id
 * @param menuIds
 * @return
 */
@Transactional
@PostMapping("/updateMenus/{id}")
```

```

@PreAuthorize("hasAuthority('system:role:menu')")
public R updateMenus(@PathVariable(value = "id")Long id,@RequestBody Long[] menuIds){
    sysRoleMenuService.remove(new QueryWrapper<SysRoleMenu>().eq("role_id", id));
    List<SysRoleMenu> sysRoleMenuList=new ArrayList<>();
    Arrays.stream(menuIds).forEach(menuId->{
        SysRoleMenu roleMenu=new SysRoleMenu();
        roleMenu.setRoleId(id);
        roleMenu.setMenuItemId(menuId);
        sysRoleMenuList.add(roleMenu);
    });
    sysRoleMenuService.saveBatch(sysRoleMenuList);
    return R.ok();
}

```

前端：

```

<template>
  <el-dialog
    model-value="menuDialogVisible"
    title="分配权限"
    width="30%"
    @close="handleClose"
  >

    <el-form
      ref="formRef"
      :model="form"
      label-width="100px"
    >

      <el-tree
        ref="treeRef"
        :data="treeData"
        :props="defaultProps"
        show-checkbox
        :default-expand-all=true
        node-key="id"
        :check-strictly=true
      />

    </el-form>

    <template #footer>
      <span class="dialog-footer">
        <el-button type="primary" @click="handleConfirm">确认</el-button>
        <el-button @click="handleClose">取消</el-button>
      </span>
    </template>
  </el-dialog>
</template>

<script setup>

```

```
import {defineEmits, defineProps, ref, watch} from "vue";
import requestUtil,{getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const defaultProps = {
  children: 'children',
  label: 'name'
}

const props=defineProps(
{
  id:{
    type:Number,
    default:-1,
    required:true
  },
  menuDialogVisible:{
    type:Boolean,
    default:false,
    required:true
  }
}
)

const form=ref({
  id:-1
})

const treeData=ref([])

const formRef=ref(null)

const treeRef=ref(null)

const initFormData=async(id)=>{
  const res=await requestUtil.get("sys/menu/list");
  treeData.value=res.data.treeMenu;

  form.value.id=id;

  const res2=await requestUtil.get("sys/role/menus/"+id);
  treeRef.value.setCheckedKeys(res2.data.menuIdList);
}

watch(
  ()=>props.menuDialogVisible,
  ()=>{
    let id=props.id;
    console.log("id="+id)
    if(id!=-1){
      initFormData(id)
    }
  }
)
```

```

const emits=defineEmits(['update:modelValue','initRoleList'])

const handleClose=()=>{
  emits('update:modelValue',false)
}

const handleConfirm=()=>{
  formRef.value.validate(async(valid)=>{
    if(valid){
      var menuIds=treeRef.value.getCheckedKeys();
      let result=await requestutil.post("sys/role/updateMenus/"+form.value.id,menuIds);
      let data=result.data;
      if(data.code==200){
        ElMessage.success("执行成功！")
        emits("initRoleList")
        handleClose();
      }else{
        ElMessage.error(data.msg);
      }
    }else{
      console.log("fail")
    }
  })
}

</script>

<style scoped>

</style>

```

菜单管理实现

菜单管理-树形表格菜单信息显示

```

<template>
  <div class="app-container">

    <el-row :gutter="20" class="header">
      <el-button type="success" :icon="DocumentAdd"
      @click="handleDialogValue()">新增</el-button>
    </el-row>

    <el-table
      :data="tableData"
      row-key="id"
      stripe

```

```

        style="width: 100%; margin-bottom: 20px"
        border
        default-expand-all
        :tree-props="{ children: 'children', hasChildren: 'hasChildren' }"
    >

        <el-table-column prop="name" label="菜单名称" width="200"/>
        <el-table-column prop="icon" label="图标" width="70" align="center">
            <template v-slot="scope">
                <el-icon><svg-icon :icon="scope.row.icon" /></el-icon>
            </template>
        </el-table-column>
        <el-table-column prop="orderNum" label="排序" width="70"
align="center"/>
        <el-table-column prop="perms" label="权限标识" width="200" />
        <el-table-column prop="path" label="组件路径" width="180" />
        <el-table-column prop="menuType" label="菜单类型" width="120"
align="center">
            <template v-slot="scope">
                <el-tag size="small" v-if="scope.row.menuType === 'M'" type="danger"
effect="dark">目录</el-tag>
                <el-tag size="small" v-else-if="scope.row.menuType === 'C'" type="success" effect="dark">菜单</el-tag>
                <el-tag size="small" v-else-if="scope.row.menuType === 'F'" type="warning" effect="dark">按钮</el-tag>
            </template>
        </el-table-column>
        <el-table-column prop="createTime" label="创建时间" align="center"/>
        <el-table-column prop="action" label="操作" width="400" fixed="right"
align="center">
            <template v-slot="scope" >
                <el-button type="primary" :icon="Edit"
@click="handleDialogValue(scope.row.id)" />
                <el-popconfirm title="您确定要删除这条记录吗？"
@confirm="handleDelete(scope.row.id)">
                    <template #reference>
                        <el-button type="danger" :icon="Delete" />
                    </template>
                </el-popconfirm>
            </template>
        </el-table-column>
    </el-table>

</div>
<Dialog v-model="dialogVisible" :dialogVisible="dialogVisible" :id="id"
:dialogTitle="dialogTitle" @initUserList="initUserList"/>

</template>

<script setup>
import { Search ,Delete,DocumentAdd ,Edit, Tools, RefreshRight} from '@element-plus/icons-vue'
import requestUtil,{getServerUrl} from "@/util/request";
import { ref } from 'vue'
import Dialog from './components/dialog'
import { ElMessage, ElMessageBox } from 'element-plus'

```

```
const tableData=ref([]);

const total=ref(0)

const dialogVisible=ref(false)

const dialogTitle=ref("")

const id=ref(-1)

const initMenuList=async()=>{
  const res=await requestUtil.post("sys/menu/list");
  tableData.value=res.data.treeMenu;
  total.value=res.data.total;
}

initMenuList();

const handleDialogValue=(userId)=>{
  if(userId){
    id.value=userId;
    dialogTitle.value="用户修改"
  }else{
    id.value=-1;
    dialogTitle.value="用户添加"
  }
  dialogVisible.value=true
}

const handleDelete=async (id)=>{
  var ids = []
  if(id){
    ids.push(id)
  }else{
    multipleSelection.value.forEach(row=>{
      ids.push(row.id)
    })
  }
  const res=await requestUtil.post("sys/user/delete",ids)
  if(res.data.code==200){
    ElMessage({
      type: 'success',
      message: '执行成功!'
    })
    initUserList();
  }else{
    ElMessage({
      type: 'error',
      message: res.data.msg,
    })
  }
}
```

```

</script>

<style lang="scss" scoped>

.header{
  padding-bottom: 16px;
  box-sizing: border-box;
}

.el-pagination{
  float: right;
  padding: 20px;
  box-sizing: border-box;
}

::v-deep th.el-table__cell{
  word-break: break-word;
  background-color: #f8f8f9 !important;
  color: #515a6e;
  height: 40px;
  font-size: 13px;
}

.el-tag--small {
  margin-left: 5px;
}
</style>

```

菜单管理-添加修改功能实现

后端：

```

/**
 * 添加或者修改
 * @param sysMenu
 * @return
 */
@PostMapping("/save")
@PreAuthorize("hasAuthority('system:menu:add')"+ || "+hasAuthority('system:menu:edit')")
public R save(@RequestBody SysMenu sysMenu){
    if(sysMenu.getId()==null || sysMenu.getId() == -1){
        sysMenu.setCreateTime(new Date());
        sysMenuService.save(sysMenu);
    }else{
        sysMenu.setUpdateTime(new Date());
        sysMenuService.updateById(sysMenu);
    }
    return R.ok();
}

```

```

/**
 * 根据id查询
 * @param id
 * @return
 */
@GetMapping("/{id}")
@PreAuthorize("hasAuthority('system:menu:query')")
public R findById(@PathVariable(value = "id")Long id){
    SysMenu sysMenu = sysMenuService.getById(id);
    Map<String, Object> map=new HashMap<>();
    map.put("sysMenu", sysMenu);
    return R.ok(map);
}

```

前端dialog

```

<template>
  <el-dialog
    model-value="dialogVisible"
    :title="dialogTitle"
    width="30%"
    @close="handleClose"
  >

    <el-form
      ref="formRef"
      :model="form"
      :rules="rules"
      label-width="100px"
    >

      <el-form-item label="上级菜单" prop="parentId">
        <el-select v-model="form.parentId" placeholder="请选择上级菜单">
          <template v-for="item in tableData">
            <el-option :label="item.name" :value="item.id"></el-option>
            <template v-for="child in item.children">
              <el-option :label="child.name" :value="child.id">
                <span>{{ " -- " + child.name }}</span>
              </el-option>
            </template>
          </template>
        </el-select>
      </el-form-item>

      <el-form-item label="菜单类型" prop="menuType" label-width="100px">
        <el-radio-group v-model="form.menuType">
          <el-radio :label="'M'">目录</el-radio>
          <el-radio :label="'C'">菜单</el-radio>
          <el-radio :label="'F'">按钮</el-radio>
        </el-radio-group>
      </el-form-item>

      <el-form-item label="菜单图标" prop="icon">
        <el-input v-model="form.icon" />
      </el-form-item>
    
```

```
</el-form-item>

<el-form-item label="菜单名称" prop="name">
  <el-input v-model="form.name" />
</el-form-item>

<el-form-item label="权限标识" prop="perms">
  <el-input v-model="form.perms" />
</el-form-item>

<el-form-item label="组件路径" prop="component">
  <el-input v-model="form.component" />
</el-form-item>

<el-form-item label="显示顺序" prop="orderNum" >
<el-input-number v-model="form.orderNum" :min="1" label="显示顺序"></el-
input-number>
</el-form-item>

</el-form>
<template #footer>
  <span class="dialog-footer">
    <el-button type="primary" @click="handleConfirm">确认</el-button>
    <el-button @click="handleClose">取消</el-button>
  </span>
</template>
</el-dialog>
</template>

<script setup>

import { defineEmits, defineProps, ref, watch} from "vue";
import requestUtil,{getServerUrl} from "@/util/request";
import { ElMessage } from 'element-plus'

const tableData=ref([])

const props=defineProps(
{
  id:{ 
    type:Number,
    default:-1,
    required:true
  },
  dialogTitle:{ 
    type:String,
    default:'',
    required:true
  },
  dialogVisible:{ 
    type:Boolean,
    default:false,
    required:true
  },
  tableData:{
```

```
        type:Array,
        default:[],
        required:true
    }
}
)

const form=ref({
    id:-1,
    parentId:'',
    menuType:"M",
    icon:'',
    name:'',
    perms:'',
    component:'',
    orderNum:1
})

const rules=ref({
    parentId:[
        { required: true, message: '请选择上级菜单'}
    ],
    name: [{ required: true, message: "菜单名称不能为空", trigger: "blur" }]
})

const formRef=ref(null)

const initFormData=async(id)=>{
    const res=await requestUtil.get("sys/menu/"+id);
    form.value=res.data.sysMenu;
}

watch(
    ()=>props.dialogVisible,
    ()=>{
        let id=props.id;
        tableData.value=props.tableData;
        if(id!=-1){
            initFormData(id)
        }else{
            form.value={
                id:-1,
                parentId:'',
                menuType:"M",
                icon:'',
                name:'',
                perms:'',
                component:'',
                orderNum:1
            }
        }
    }
)
```

```

const emits=defineEmits(['update:modelValue','initMenuList'])

const handleClose=()=>{
  emits('update:modelValue',false)
}

const handleConfirm=()=>{
  formRef.value.validate(async(valid)=>{
    if(valid){
      let result=await requestUtil.post("sys/menu/save",form.value);
      let data=result.data;
      if(data.code==200){
        ElMessage.success("执行成功!")
        formRef.value.resetFields();
        emits("initMenuList")
        handleClose();
      }else{
        ElMessage.error(data.msg);
      }
    }else{
      console.log("fail")
    }
  })
}

</script>

<style scoped>

</style>

```

```

<Dialog v-model="dialogVisible" :tableData="tableData"
:dialogVisible="dialogVisible" :id="id" :dialogTitle="dialogTitle"
@initMenuList="initMenuList"/>

```

菜单管理-删除功能实现

后端：

```

/**
 * 删除
 * @param id
 * @return
 */
@GetMapping("/delete/{id}")
@PreAuthorize("hasAuthority('system:menu:delete')")
public R delete(@PathVariable(value = "id")Long id){
  int count = sysMenuService.count(new QueryWrapper<SysMenu>().eq("parent_id",
  id));
  if(count>0){

```

```
        return R.error("请先删除子菜单！");
    }
    sysMenuService.removeById(id);
    return R.ok();
}
```

前端：

```
const handleDelete=async (id)=>{

    const res=await requestUtil.get("sys/menu/delete/"+id)
    if(res.data.code==200){
        ElMessage({
            type: 'success',
            message: '执行成功!'
        })
        initMenuList();
    }else{
        ElMessage({
            type: 'error',
            message: res.data.msg,
        })
    }
}
```

进阶优化功能实现（VIP）

验证码功能实现

权限加载实现redis缓存

动态控制页面操作按钮显示和隐藏

后端字段验证实现