mall整合SpringSecurity和JWT实现认证和授权(二)

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#mall学习教程(架构篇)

10个

接上一篇, controller和service层的代码实现及登录授权流程演示。

登录注册功能实现

添加UmsAdminController类

实现了后台用户登录、注册及获取权限的接口

```
package com.macro.mall.tiny.controller;
import com.macro.mall.tiny.common.api.CommonResult;
import com.macro.mall.tiny.dto.UmsAdminLoginParam;
import com.macro.mall.tiny.mbg.model.UmsAdmin;
import com.macro.mall.tiny.mbg.model.UmsPermission;
import com.macro.mall.tiny.service.UmsAdminService;
import io.swagger.annotations.Api;
import io.swagger.annotations.ApiOperation;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.stereotype.Controller;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.annotation.*;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
/**
 * 后台用户管理
 * Created by macro on 2018/4/26.
 */
@Controller
@Api(tags = "UmsAdminController", description = "后台用户管理")
@RequestMapping("/admin")
public class UmsAdminController {
   @Autowired
    nnivata UmcAdminSanvica adminSanvica.
```

```
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@Value("${jwt.tokenHeader}")
private String tokenHeader;
@Value("${jwt.tokenHead}")
private String tokenHead;
@ApiOperation(value = "用户注册")
@RequestMapping(value = "/register", method = RequestMethod.POST)
@ResponseBody
public CommonResult<UmsAdmin> register(@RequestBody UmsAdmin umsAdminParam, BindingF
    UmsAdmin umsAdmin = adminService.register(umsAdminParam);
    if (umsAdmin == null) {
        CommonResult.failed();
    return CommonResult.success(umsAdmin);
}
@ApiOperation(value = "登录以后返回token")
@RequestMapping(value = "/login", method = RequestMethod.POST)
@ResponseBody
public CommonResult login(@RequestBody UmsAdminLoginParam umsAdminLoginParam, Bindir
    String token = adminService.login(umsAdminLoginParam.getUsername(), umsAdminLogi
    if (token == null) {
        return CommonResult.validateFailed("用户名或密码错误");
    Map<String, String> tokenMap = new HashMap<>();
    tokenMap.put("token", token);
    tokenMap.put("tokenHead", tokenHead);
    return CommonResult.success(tokenMap);
}
@ApiOperation("获取用户所有权限(包括+-权限)")
@RequestMapping(value = "/permission/{adminId}", method = RequestMethod.GET)
@ResponseBody
public CommonResult<List<UmsPermission>> getPermissionList(@PathVariable Long admin]
    List<UmsPermission> permissionList = adminService.getPermissionList(adminId);
    return CommonResult.success(permissionList);
```

添加UmsAdminService接口

```
package com.macro.mall.tiny.service;
import com.macro.mall.tiny.mbg.model.UmsAdmin;
import com.macro.mall.tiny.mbg.model.UmsPermission;
import java.util.List;
/**
 * 后台管理员Service
 * Created by macro on 2018/4/26.
```

```
*/
public interface UmsAdminService {
    * 根据用户名获取后台管理员
   UmsAdmin getAdminByUsername(String username);
    * 注册功能
    */
   UmsAdmin register(UmsAdmin umsAdminParam);
   /**
    * 登录功能
    * @param username 用户名
    * @param password 密码
    * @return 生成的JWT的token
    */
   String login(String username, String password);
   /**
    * 获取用户所有权限(包括角色权限和+-权限)
   List<UmsPermission> getPermissionList(Long adminId);
}
```

添加UmsAdminServiceImpl类

```
package com.macro.mall.tiny.service.impl;
import com.macro.mall.tiny.common.utils.JwtTokenUtil;
import com.macro.mall.tiny.dao.UmsAdminRoleRelationDao;
import com.macro.mall.tiny.dto.UmsAdminLoginParam;
import com.macro.mall.tiny.mbg.mapper.UmsAdminMapper;
import com.macro.mall.tiny.mbg.model.UmsAdmin;
import com.macro.mall.tiny.mbg.model.UmsAdminExample;
import com.macro.mall.tiny.mbg.model.UmsPermission;
import com.macro.mall.tiny.service.UmsAdminService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.BeanUtils;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.authentication.BadCredentialsException;
import\ org. spring framework. security. authentication. Username Password Authentication Token
import org.springframework.security.core.AuthenticationException;
import org.springframework.security.core.context.SecurityContextHolder;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.crypto.password.PasswordEncoder;
import org.springframework.stereotype.Service;
```

```
import java.util.Date;
import java.util.List;
/**
 * UmsAdminService实现类
 * Created by macro on 2018/4/26.
*/
@Service
public class UmsAdminServiceImpl implements UmsAdminService {
   private static final Logger LOGGER = LoggerFactory.getLogger(UmsAdminServiceImpl.c
   @Autowired
   private UserDetailsService userDetailsService;
   @Autowired
   private JwtTokenUtil jwtTokenUtil;
   @Autowired
   private PasswordEncoder passwordEncoder;
   @Value("${jwt.tokenHead}")
   private String tokenHead;
   @Autowired
   private UmsAdminMapper adminMapper;
   @Autowired
   private UmsAdminRoleRelationDao adminRoleRelationDao;
   public UmsAdmin getAdminByUsername(String username) {
       UmsAdminExample example = new UmsAdminExample();
       example.createCriteria().andUsernameEqualTo(username);
       List<UmsAdmin> adminList = adminMapper.selectByExample(example);
       if (adminList != null && adminList.size() > 0) {
            return adminList.get(0);
       return null;
    }
   @Override
   public UmsAdmin register(UmsAdmin umsAdminParam) {
       UmsAdmin umsAdmin = new UmsAdmin();
       BeanUtils.copyProperties(umsAdminParam, umsAdmin);
       umsAdmin.setCreateTime(new Date());
       umsAdmin.setStatus(1);
       //查询是否有相同用户名的用户
       UmsAdminExample example = new UmsAdminExample();
       example.createCriteria().andUsernameEqualTo(umsAdmin.getUsername());
       List<UmsAdmin> umsAdminList = adminMapper.selectByExample(example);
       if (umsAdminList.size() > 0) {
            return null;
       //将密码进行加密操作
       String encodePassword = passwordEncoder.encode(umsAdmin.getPassword());
       umsAdmin.setPassword(encodePassword);
       adminMapper.insert(umsAdmin);
       return umsAdmin;
```

```
@Override
    public String login(String username, String password) {
         String token = null;
         try {
             UserDetails userDetails = userDetailsService.loadUserByUsername(username);
             if (!passwordEncoder.matches(password, userDetails.getPassword())) {
                  throw new BadCredentialsException("密码不正确");
             }
             UsernamePasswordAuthenticationToken authentication = new UsernamePasswordAuthenticationToken authentication = new UsernamePasswordAuthenticationToken authentication
             SecurityContextHolder.getContext().setAuthentication(authentication);
             token = jwtTokenUtil.generateToken(userDetails);
         } catch (AuthenticationException e) {
             LOGGER.warn("登录异常:{}", e.getMessage());
         return token;
    }
    @Override
    public List<UmsPermission> getPermissionList(Long adminId) {
         return adminRoleRelationDao.getPermissionList(adminId);
}
```

修改Swagger的配置

通过修改配置实现调用接口自带Authorization头,这样就可以访问需要登录的接口了。

```
package com.macro.mall.tiny.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import springfox.documentation.builders.ApiInfoBuilder;
import springfox.documentation.builders.PathSelectors;
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.service.ApiInfo;
import springfox.documentation.service.ApiKey;
import springfox.documentation.service.AuthorizationScope;
import springfox.documentation.service.SecurityReference;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spi.service.contexts.SecurityContext;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;
import java.util.ArrayList;
import java.util.List;
```

```
* SwaggerZAPI X 恒的能直
@Configuration
@EnableSwagger2
public class Swagger2Config {
   @Bean
   public Docket createRestApi(){
       return new Docket(DocumentationType.SWAGGER_2)
                .apiInfo(apiInfo())
                .select()
                //为当前包下controller生成API文档
                .apis(RequestHandlerSelectors.basePackage("com.macro.mall.tiny.controlle")
                .paths(PathSelectors.any())
                .build()
                //添加登录认证
                .securitySchemes(securitySchemes())
                .securityContexts(securityContexts());
    }
    private ApiInfo apiInfo() {
       return new ApiInfoBuilder()
                .title("SwaggerUI演示")
                .description("mall-tiny")
                .contact("macro")
                .version("1.0")
                .build();
    }
    private List<ApiKey> securitySchemes() {
       //设置请求头信息
       List<ApiKey> result = new ArrayList<>();
       ApiKey apiKey = new ApiKey("Authorization", "Authorization", "header");
       result.add(apiKey);
       return result;
    }
    private List<SecurityContext> securityContexts() {
       //设置需要登录认证的路径
       List<SecurityContext> result = new ArrayList<>();
       result.add(getContextByPath("/brand/.*"));
       return result;
    }
    private SecurityContext getContextByPath(String pathRegex){
       return SecurityContext.builder()
                .securityReferences(defaultAuth())
                .forPaths(PathSelectors.regex(pathRegex))
                .build();
    }
    private List<SecurityReference> defaultAuth() {
       List<SecurityReference> result = new ArrayList<>();
       AuthorizationScope authorizationScope = new AuthorizationScope("global", "access
       AuthorizationScope[] authorizationScopes = new AuthorizationScope[1];
        authorizationScones[0] - authorizationScone.
```

给PmsBrandController接口中的方法添加访问权限

- 给查询接口添加pms:brand:read权限
- 给修改接口添加pms:brand:update权限
- 给删除接口添加pms:brand:delete权限
- 给添加接口添加pms:brand:create权限

例子:

```
@PreAuthorize("hasAuthority('pms:brand:read')")
public CommonResult<List<PmsBrand>> getBrandList() {
    return CommonResult.success(brandService.listAllBrand());
}
```

认证与授权流程演示

运行项目,访问API

Swagger api地址: http://localhost:8080/swagger-ui.html

未登录前访问接口



登录后访问接口

■ 进行登录操作: 登录帐号test 123456

■ 点击Authorize按钮,在弹框中输入登录接口中获取到的token信息

■ 登录后访问获取权限列表接口,发现已经可以正常访问

访问需要权限的接口

由于test帐号并没有设置任何权限,所以他无法访问具有pms:brand:read权限的获取品牌列表接 口。

改用其他有权限的帐号登录

改用admin 123456登录后访问,点击Authorize按钮打开弹框,点击logout登出后再重新输入新 token.

项目源码地址

https://github.com/macrozheng/mall-learning/tree/master/mall-tiny-04

推荐阅读

- mall架构及功能概览
- mall学习所需知识点(推荐资料)
- mall整合SpringBoot+MyBatis搭建基本骨架
- mall整合Swagger-UI实现在线API文档
- mall整合Redis实现缓存功能
- mall整合SpringSecurity和JWT实现认证和授权 (一)

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项目中到底该不该用Lombok?

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