第二章 新闻列表

1. 新闻列表

1.1 需求

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初中历史易错易混淆的知识点 (中国古代史)

2020年11月20日 14:08:39

中国历史年表记忆口诀

中国历史年表记忆口诀

2020年11月20日 13:48:41

1.2 数据库设计

■保存 添加字段 本插入	字段 。删除字段	♪ 主键 ↑ 上移 ↓ 下移						
字段 索引 外键 触发器	路项 注释	SQL 预	览					
名	类型	长度	小数点	不是 n	虚拟	键	注释	
▶id	bigint	0	0	\checkmark		ρT	id	
title	varchar	255	0	\checkmark			新闻题目	
summary	varchar	255	0	\checkmark			新闻概述	
image_url	varchar	255	0	\checkmark			封面图片地址	
content	text	0	0	\checkmark			内容	
tab	tinyint	0	0	\checkmark			标签	
create_time	bigint	0	0	\checkmark			创建时间	
author	varchar	255	0	\checkmark			作者	
n_status	tinyint	0	0	\checkmark			状态 0 有效 1 无效	

1.3 步骤分析

- 1. 首页列表实现,每一个标签只显示5条最新的数据,查询条件中根据标签查询,每次切换标签都访问一次接口
- 2. 列表查询sql语句,只查询题目以及id,提高查询性能
- 3. 查询出结果后,放入redis缓存中,设置2分钟的过期时间,加快访问速度的同时也可以 防止出现集中访问的情况,应对短暂的热点现象
- 4. 文章详情,根据id查询文章的详细信息,同样放入缓存中,考虑到文章内容过大,设计 30秒的过期时间,后期如果出现访问量激增的情况,考虑放入es中
- 5. 列表详情页面,分页查询,同样放入缓存,sql语句只查询需要的信息即可
- 6. 可以写缓存的通用实现

1.4 编码

1.4.1 创建web模块

- 1. pom文件 设置package 为pom
- 2. 新建mszlu-xt-web-api, mszlu-xt-web-model, mszlu-xt-web-domain, mszlu-xt-web-dao, mszlu-xt-web-service, mszlu-xt-web-service-impl模块
- 3. 依赖包和SSO模块一致
- 4. 配置文件也和sso一致,数据库实际业务中分为多个,在这里统一使用mszlu-xt数据库
- 5. 建模块是大家在项目阶段要学习的一个重要实践知识点,必须亲手能搭建出来

1.4.2 编码

1. 创建NewsController,写三个接口

```
package com.mszlu.xt.web.api;
import com.mszlu.common.model.CallResult;
import com.mszlu.xt.model.service.NewsService;
import com.mszlu.xt.web.model.params.NewsParam;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping("news")
public class NewsApi {
    @Autowired
    private NewsService newsService;
    @PostMapping("newsList")
    public CallResult newsList(@RequestBody NewsParam newsParam){
        return newsService_newsList(newsParam);
    }
    @PostMapping("detail")
    public CallResult news(@RequestBody NewsParam newsParam){
        return newsService.findNewsById(newsParam);
```

```
@PostMapping("newsDetailList")
public CallResult newsDetailList(@RequestBody NewsParam
newsParam) {
    return newsService.newsDetailList(newsParam);
}
```

参数设置:

```
package com.mszlu.xt.web.model.params;
import lombok.Data;
@Data
public class NewsParam {
    private int page = 1;
    private int pageSize = 20;
    private Long id;
    private Integer tab;
    private String title;
    private String summary;
    private String imageUrl;
    private String content;
    private Long createTime;
    private String author;
    /**
    * 0 正常 1 删除
    */
    private Integer status;
}
```

2. NewsService

```
package com.xiaopizhu.web.service;

import com.xiaopizhu.common.model.CallResult;
import com.xiaopizhu.web.model.params.NewsParam;
```

```
public interface NewsService {
    CallResult newsList(NewsParam newsParam);
    CallResult newsDetailList(NewsParam newsParam);
    CallResult findNewsById(NewsParam newsParam);
}
```

```
package com.xiaopizhu.web.service.impl;
import com.xiaopizhu.common.model.CallResult;
import com.xiaopizhu.common.service.AbstractTemplateAction;
import com.xiaopizhu.web.domain.NewsDomain;
import com.xiaopizhu.web.domain.repository.NewsDomainRepository;
import com.xiaopizhu.web.model.params.NewsParam;
import com.xiaopizhu.web.service.NewsService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class NewsServiceImpl extends AbstractService implements
NewsService {
    @Autowired
    private NewsDomainRepository newsDomainRepository;
    @Override
    public CallResult newsList(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this service Template exeOnSlave (new
AbstractTemplateAction<Object>() {
            @Override
            public CallResult<Object> checkParam() {
                return newsDomain.checkNewsListParam();
            }
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.newsList(false);
```

```
}
        });
    }
    @Override
    public CallResult findNewsById(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this service Template exeOnSlave (new
AbstractTemplateAction<0bject>() {
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.findNewsById();
            }
        });
    }
    @Override
    public CallResult newsDetailList(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this.serviceTemplate.exeOnSlave(new
AbstractTemplateAction<Object>() {
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.newsList(true);
        });
    }
}
```

3. domain实现具体的业务逻辑

```
package com.mszlu.xt.web.domain;

import com.baomidou.mybatisplus.extension.plugins.pagination.Page;
import com.mszlu.common.model.BusinessCodeEnum;
import com.mszlu.common.model.CallResult;
import com.mszlu.common.model.ListPageModel;
import com.mszlu.xt.pojo.News;
import com.mszlu.xt.web.domain.repository.NewsDomainRepository;
```

```
import com.mszlu.xt.web.model.NewsModel;
import com.mszlu.xt.web.model.params.NewsParam;
import org.joda.time.DateTime;
import org.springframework.beans.BeanUtils;
import java.util.ArrayList;
import java.util.List;
public class NewsDomain {
    private NewsDomainRepository newsDomainRepository;
    private NewsParam newsParam;
    public NewsDomain(NewsDomainRepository newsDomainRepository,
NewsParam newsParam) {
        this.newsDomainRepository = newsDomainRepository;
        this newsParam = newsParam;
    }
    public NewsModel copy(News news){
        if (news == null){
            return null;
        NewsModel newsModel = new NewsModel();
        //属性copy
        BeanUtils.copyProperties(news,newsModel);
        if (news_getCreateTime() != null) {
            newsModel.setCreateTime(new
DateTime(news.getCreateTime()).toString("yyyy年MM月dd日 HH:mm:ss"));
        }
        if (news.getImageUrl() != null) {
            if (!news.getImageUrl().startsWith("http")) {
 newsModel_setImageUrl(newsDomainRepository_giniuConfig_getFileServ
erUrl() + news.getImageUrl());
        return newsModel:
    }
    public List<NewsModel> copyList(List<News> newsList){
        List<NewsModel> newsModelList = new ArrayList<>();
        for (News news : newsList){
            newsModelList.add(copy(news));
```

```
return newsModelList;
    }
    public CallResult<Object> checkNewsListParam() {
        if (newsParam.getPageSize() > 5){
            newsParam.setPageSize(5);
        }
        if (newsParam.getTab() == null){
            return
CallResult.fail(BusinessCodeEnum.CHECK_PARAM_NO_RESULT.getCode(),"p
aram error: tab is null");
        return CallResult.success();
    }
    public CallResult<Object> newsList(boolean isDetail) {
        int page = this.newsParam.getPage();
        int pageSize = this.newsParam.getPageSize();
        Integer tab = this.newsParam.getTab();
        Page<News> newsPage =
this newsDomainRepository findNewsListByTab(page,pageSize,tab,isDet
ail);
        ListPageModel<NewsModel> listPageModel = new
ListPageModel<>();
        List<News> result = newsPage getRecords();
        List<NewsModel> newsModelList = copyList(result);
        listPageModel.setList(newsModelList);
        listPageModel.setPage(page);
        listPageModel.setPageSize(pageSize);
        listPageModel.setPageCount(newsPage.getPages());
        listPageModel.setSize(newsPage.getTotal());
        return CallResult.success(listPageModel);
    }
    public CallResult<Object> findNewsById() {
        Long id = this.newsParam.getId();
        News news =
this newsDomainRepository findNewsDetailById(id);
        NewsModel newsModel = copy(news);
        return CallResult_success(newsModel);
    }
```

```
package com.mszlu.xt.web.domain.repository;
import
com.baomidou.mybatisplus.core.conditions.query.LambdaQueryWrapper;
import com.baomidou.mybatisplus.extension.plugins.pagination.Page;
import com.mszlu.xt.web.dao.NewsMapper;
import com.mszlu.xt.web.dao.data.News:
import com.mszlu.xt.web.domain.NewsDomain;
import com.mszlu.xt.web.domain.giniu.QiniuConfig;
import com.mszlu.xt.web.model.enums.Status;
import com.mszlu.xt.web.model.params.NewsParam;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;
import javax.annotation.Resource;
@Component
public class NewsDomainRepository {
    @Autowired
    public QiniuConfig qiniuConfig;
    @Resource
    private NewsMapper newsMapper;
    public NewsDomain createDomain(NewsParam newsParam) {
        return new NewsDomain(this,newsParam);
    }
    public Page<News> findNewsListByTab(int page, int pageSize,
Integer tab, boolean isDetail) {
        Page<News> newsPage = new Page<>(page,pageSize);
        LambdaQueryWrapper<News> queryWrapper = new
LambdaQueryWrapper<>();
        queryWrapper
                .eq(News::getTab,tab)
                _eq(News::getStatus, Status.NORMAL.getCode());
        if (isDetail){
 queryWrapper.select(News::getId,News::getImageUrl,News::getCreateT
ime,
```

```
News::getAuthor,News::getTitle,News::getTab,News::getSummary);
        }else {
            queryWrapper.select(News::getId, News::getTitle);
        return newsMapper.selectPage(newsPage,queryWrapper);
    }
    public News findNewsById(Long id) {
        LambdaQueryWrapper<News> queryWrapper = new
LambdaQueryWrapper<>();
queryWrapper.eq(News::getId,id).select(News::getId,News::getTitle)
        return newsMapper.selectOne(queryWrapper);
    }
    public News findNewsDetailById(Long id) {
        LambdaQueryWrapper<News> queryWrapper = new
LambdaQueryWrapper<>();
        queryWrapper.eq(News::getId,id);
        return newsMapper.selectOne(queryWrapper);
    }
}
```

```
package com.mszlu.xt.web.dao;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
import com.mszlu.xt.web.dao.data.News;

public interface NewsMapper extends BaseMapper<News> {
}
```

4. 其他代码,七牛云图片地址配置,枚举,分页模型等

```
package com.mszlu.common.model;
import lombok.Data;
import java.io.Serializable;
```

```
import java.util.ArrayList;
import java.util.List;
/**
 *@author Jarno
*/
@Data
public class ListPageModel<T> implements Serializable {
  private long pageCount;
  private int page;
  private int pageSize;
  private long size;
  private List<T> list;
  public ListPageModel<T> initNull(){
    ListPageModel<T> listModel = new ListPageModel<T>();
    listModel.setList(new ArrayList<T>());
    listModel.setPage(1);
    listModel.setPageCount(1);
    listModel.setSize(0);
    return listModel;
}
```

```
package com.mszlu.xt.web.model.enums;

import java.util.HashMap;
import java.util.Map;

/**
   * @author Jarno
   */
public enum Status {
    /**
        * look name
        */
```

```
NORMAL(0,"正常"),
   DELETE(1,"删除");
    private static final Map<Integer, Status> CODE_MAP = new
HashMap <> (3);
    static{
        for(Status status: values()){
            CODE_MAP.put(status.getCode(), status);
        }
    }
    /**
    * 根据code获取枚举值
    * @param code
    * @return
    */
    public static Status valueOfCode(int code){
        return CODE_MAP.get(code);
    }
    private int code;
    private String msg;
   Status(int code, String msg) {
        this.code = code;
       this.msg = msg;
    }
    public int getCode() {
        return code;
    }
    public void setCode(int code) {
        this.code = code;
    }
    public String getMsg() {
        return msg;
    }
    public void setMsg(String msg) {
       this.msg = msg;
    }
```

}

```
package com.mszlu.xt.web.domain.qiniu;

import lombok.Data;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.context.annotation.Configuration;

@Configuration
@Data
public class QiniuConfig {

    @Value("${qiniu.file.server.url}")
    private String fileServerUrl;
}
```

```
package com.mszlu.xt.web.dao.data;
import com.baomidou.mybatisplus.annotation.TableField;
import lombok.Data;
/**
* 新闻
*/
@Data
public class News {
    private Long id;
    private String title;
    private String summary;
    private String imageUrl;
    private String content;
    /**
    * 1 题库 2 升学 3 其他
    */
    private Integer tab;
    private Long createTime;
    private String author;
    /**
    * 0 正常 1 删除
    @TableField("n_status")
```

```
private Integer status;
}
```

```
package com.mszlu.xt.web.model;
import lombok.Data;
/**
 * 新闻
*/
@Data
public class NewsModel {
    private Long id;
    private String title;
    private String summary;
    private String imageUrl;
    private String content;
    private Integer tab;
    private String createTime;
    private String author;
}
```

5. 测试

1.4.3添加缓存支持

1. 添加依赖, common模块

2. 添加redis配置

```
#redis 配置 本机开发使用的为单机模式
spring.redis.host=localhost
spring.redis.port=6379

# redis集群配置 生产环境使用集群配置
#spring.redis.jedis.pool.max-wait=5000ms
#spring.redis.jedis.pool.max-Idle=100
#spring.redis.jedis.pool.min-Idle=10
#spring.redis.timeout=10s
#spring.redis.cluster.nodes=192.168.111.131:6379,192.168.111.131:63
80,192.168.111.131:6381
#spring.redis.cluster.max-redirects=5
```

3. 在common模块中,添加缓存支持,使用AOP实现

```
package com.mszlu.common.cache.redis;
import com.alibaba.fastjson.JSON;
import com.mszlu.common.cache.Cache;
import com.mszlu.common.model.CallResult;
import lombok.extern.slf4j.Slf4j;
import org.apache.commons.codec.digest.DigestUtils;
import org.apache.commons.lang3.StringUtils;
import org.aspectj.lang.ProceedingJoinPoint;
import org.aspectj.lang.Signature;
import org.aspectj.lang.annotation.Around;
import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Pointcut;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.redis.core.RedisTemplate;
import org.springframework.stereotype.Component;
import java.lang.reflect.Method;
import java.time.Duration;
@Aspect
@Component
@Slf4i
public class CacheAspect {
    @Autowired
    private RedisTemplate<String, String> redisTemplate;
```

```
@Pointcut("@annotation(com.mszlu.common.cache.Cache)")
    public void pt(){}
   @Around("pt()")
    public Object around(ProceedingJoinPoint pjp){
           Signature signature = pjp.getSignature();
           //类名
           String className =
pjp.getTarget().getClass().getSimpleName();
           //调用的方法名
           String methodName = signature.getName();
           Class[] parameterTypes = new
Class[pjp.getArgs().length];
           Object[] args = pjp.getArgs();
           //参数
            String params = "";
            for(int i=0; i<args.length; i++) {</pre>
                if(args[i] != null) {
                    params += JSON.toJSONString(args[i]);
                    parameterTypes[i] = args[i].getClass();
               }else {
                    parameterTypes[i] = null;
                }
            }
            if (StringUtils isNotEmpty(params)) {
               //加密 以防出现key过长以及字符转义获取不到的情况
                params = DigestUtils.md5Hex(params);
           Method method =
pjp.getSignature().getDeclaringType().getMethod(methodName,
parameterTypes);
           //获取Cache注解
           Cache annotation = method.getAnnotation(Cache.class);
           //缓存过期时间
            long expire = annotation.expire();
            //缓存名称
           String name = annotation.name();
            //先从redis获取
           String redisKey = name + "::" +
className+"::"+methodName+"::"+params;
```

```
String redisValue =
redisTemplate.opsForValue().get(redisKey);
            if (StringUtils isNotEmpty(redisValue)){
                log.info("走了缓存~~~,{},{}",className,methodName);
                return JSON parseObject(redisValue,
CallResult.class);
            Object proceed = pjp.proceed();
 redisTemplate.opsForValue().set(redisKey,JSON.toJSONString(proceed
), Duration of Millis (expire));
            log_info("存入缓存~~~ {},{}",className,methodName);
            return proceed;
        } catch (Throwable throwable) {
            throwable.printStackTrace();
        return CallResult.fail();
    }
}
```

```
package com.mszlu.common.cache;

import java.lang.annotation.*;

@Target({ElementType.METHOD})
@Retention(RetentionPolicy.RUNTIME)
@Documented
public @interface Cache {

    long expire() default 1 * 60 * 1000;

    String name() default "";
}
```

4. 在Controller层接口进行应用

```
package com.mszlu.xt.web.api;
```

```
import com.mszlu.common.cache.Cache;
import com.mszlu.common.model.CallResult;
import com.mszlu.xt.model.service.NewsService;
import com.mszlu.xt.web.model.params.NewsParam;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping("news")
public class NewsApi {
    @Autowired
    private NewsService newsService;
   @PostMapping("newsList")
    @Cache(expire = 2 * 60 * 1000, name = "News")
    public CallResult newsList(@RequestBody NewsParam newsParam) {
        return newsService.newsList(newsParam);
    }
    @PostMapping("detail")
    @Cache(expire = 30 * 1000, name = "News")
    public CallResult news(@RequestBody NewsParam newsParam){
        return newsService.findNewsById(newsParam);
    }
    @PostMapping("newsDetailList")
    @Cache(expire = 30 * 1000, name = "News")
    public CallResult newsDetailList(@RequestBody NewsParam
newsParam) {
        return newsService.newsDetailList(newsParam);
    }
}
```

```
      <== Columns: id, title</td>
      C= Row: 1, 多地教育部宣布,中小学寒假时间定了,学生欲哭无泪但还有好消息
      C= Total: 1

      Closing non transactional SqlSession [org.apache.ibatis.session.defaults.DefaultSqlSession@la5824f]
      Esave datasource method run time:260ms

      2021-04-05 00:17:09.699 INFO 158648 --- [nio-8118-exec-1] c.x.c.service.impl.ServiceTemplateImpl : slave datasource method run time:260ms
      Epace : 存入缓存~~~ NewsApi,newsList

      2021-04-05 00:17:20.103 INFO 158648 --- [nio-8118-exec-2] c.x.c.cache.redis.config.CacheAspect : 走了缓存~~~ NewsApi,newsList
      : 走了缓存~~~ NewsApi,newsList
```

2. 管理台

elementui讲解: https://element.eleme.cn/

2.1 需求

新闻管理,需要后台进行添加,修改等操作,故需要一个管理台模块,让网站运营人员可以便捷的进行一些运营管理操作,管理台不止可以进行新闻管理,后续实现题目上传,订单管理,营销管理等等都需要在后台进行实现

2.2 管理台登录功能

2.2.1 数据库设计

□保存 添加字段 4插入					段動	删除字段	₽套	建 ↑」	↑ 上移 ↓ 下移						
	字段	字段 索引 外键 触发器 选项 注释 SQ						QL 预览							
名					类型		长度	小数点	不是 n	虚拟	键	注释			
id				int		0	0	\checkmark		ρT	主键id				
username				varchar		45	0	\checkmark			用户名				
password					varcha	r	255	0	\checkmark			密码			

2.2.2 步骤分析

- 1. 用户输入用户名,密码进行登录
- 2. 使用spring security进行用户的校验,同时实现用户的权限管理

2.2.3 spring security 介绍

Spring Security 是一个功能强大且高度可定制的身份验证和访问控制框架。它是用于保护基于Spring的应用程序的实际标准。

Spring Security 致力于为Java应用程序提供身份验证和授权。与所有Spring项目一样, Spring Security的真正强大之处在于可以轻松扩展以满足自定义要求

特性:

- 全面和可扩展的身份验证和授权支持
- 防止会话固定、点击劫持、跨网站请求伪造等攻击
- Servlet API集成

- 与Spring Web MVC的可选集成
- ...

2.2.4 编码

1. 新建admin模块,按之前的格式创建api, service, domain, dao, model等子模块

```
mszlu-xt-parent D:\git\mszlu\xm\mszlu-xi

idea

mszlu-xt-admin

mszlu-xt-admin-api

mszlu-xt-admin-dao

mszlu-xt-admin-domain

mszlu-xt-admin-model

mszlu-xt-admin-service

mszlu-xt-admin-service

mszlu-xt-admin-service-impl

mpom.xml
```

2. 导入依赖和web工程的依赖一致,多添加spring-security的支持

```
#application.properties
server.port=8228
server.servlet.session.timeout=604800s
spring.application.admin.enabled=false
spring.jmx.enabled=false
logging.level.com.mszlu.xt.admin.dao=debug
server.servlet.context-path=/lzadmin
##mybatisplus
mybatis-plus.global-config.db-config.table-prefix=t_
mybatis-plus.mapper-locations=classpath:mybatis/mapper/*.xml
mybatis-plus.configuration.log-
impl=org.apache.ibatis.logging.stdout.StdOutImpl
#freemarker
spring.freemarker.check-template-location=true
spring.freemarker.charset=UTF-8
spring.freemarker.content-type=text/html; charset=utf-8
spring.freemarker.expose-request-attributes=true
```

```
spring.freemarker.expose-session-attributes=true
spring.freemarker.request-context-attribute=request

spring.profiles.active=local
#spring jackson
spring.jackson.time-zone=GMT+8
spring.servlet.multipart.max-file-size=30MB
spring.servlet.multipart.max-request-size=30MB
```

```
#application-local.properties
server.port=8228
#server.use-forward-headers=true
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/smart_pig?
useUnicode=true&characterEncoding=utf-8&serverTimezone=UTC
spring.datasource.username=root
spring.datasource.password=root

#redis 配置
spring.redis.host=localhost
spring.redis.port=6379
```

- 3. 在api模块的resources下新建static文件夹,将前端页面文件放入其中,将web工程的mybatis等配置文件copy过来
- 4. 在api中创建security的配置文件

```
package com.mszlu.xt.admin.config;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import
org.springframework.security.config.annotation.authentication.build
ers.AuthenticationManagerBuilder;
import
org.springframework.security.config.annotation.web.builders.HttpSecurity;
import
org.springframework.security.config.annotation.web.builders.WebSecurity;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
```

```
import
org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
org.springframework.security.crypto.password.PasswordEncoder;
@Configuration
public class SpringSecurityConfig extends
WebSecurityConfigurerAdapter {
    @Bean
    public PasswordEncoder getPasswordEncoder(){
        return new BCryptPasswordEncoder();
    }
    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http:authorizeRequests()
                antMatchers("/login.html").permitAll()
                antMatchers("/css/**").permitAll()
                antMatchers("/js/**") permitAll()
                antMatchers("/plugins/**").permitAll()
                anyRequest() authenticated()
                and() headers() frameOptions() disable()
                and()
                formLogin()
                _defaultSuccessUrl("/pages/main.html")
                permitAll()
                .and().logout()
                and() csrf() disable()
          super.configure(http);
//
   @Override
    protected void configure(AuthenticationManagerBuilder auth)
throws Exception {
        super.configure(auth);
    }
    @Override
    public void configure(WebSecurity web) throws Exception {
        super.configure(web);
    }
}
```

5. 创建AdminUserService,根据用户名查询对应的用户信息

```
package com.mszlu.xt.admin.dao.data;
import lombok.Data;
@Data
public class AdminUser {
    private Long id;
    private String username;
    private String password;
}
```

```
package com.mszlu.xt.admin.service;

import com.mszlu.common.model.CallResult;

public interface AdminUserService {
    CallResult findUser(String username);
}
```

```
import com.mszlu.common.model.CallResult;
import com.mszlu.common.service.AbstractTemplateAction;
import com.mszlu.xt.admin.domain.AdminUserDomain;
import
com.mszlu.xt.admin.domain.repository.AdminUserDomainRepository;
import com.mszlu.xt.admin.model.param.AdminUserParam;
import com.mszlu.xt.admin.service.AdminUserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
```

```
public class AdminUserServiceImpl extends AbstractService
implements AdminUserService {
    @Autowired
    private AdminUserDomainRepository adminUserDomainRepository;
    @Override
    public CallResult findUser(String username) {
        AdminUserParam adminUserParam = new AdminUserParam();
        adminUserParam_setUsername(username);
        AdminUserDomain adminUserDomain =
this adminUserDomainRepository createDomain(adminUserParam);
        return this serviceTemplate executeQuery(new
AbstractTemplateAction<Object>() {
            @Override
            public CallResult<Object> doAction() {
                return adminUserDomain.findUserByUsername();
            }
       });
   }
}
```

```
package com.mszlu.xt.admin.dao;
import com.baomidou.mybatisplus.core.mapper.BaseMapper;
import com.mszlu.xt.admin.dao.data.AdminUser;

public interface AdminUserMapper extends BaseMapper<AdminUser> {
}
```

```
import
com.baomidou.mybatisplus.core.conditions.query.LambdaQueryWrapper;
import com.mszlu.xt.admin.dao.AdminUserMapper;
import com.mszlu.xt.admin.dao.data.AdminUser;
import com.mszlu.xt.admin.domain.AdminUserDomain;
import com.mszlu.xt.admin.model.param.AdminUserParam;
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Component;
@Component
public class AdminUserDomainRepository {
    @Autowired
    private AdminUserMapper adminUserMapper;
    public AdminUserDomain createDomain(AdminUserParam
adminUserParam) {
        return new AdminUserDomain(this,adminUserParam);
    }
    public AdminUser findUserByUsername(String username) {
        LambdaQueryWrapper<AdminUser> queryWrapper = new
LambdaQueryWrapper<>();
 queryWrapper.eq(AdminUser::getUsername, username).last("limit 1");
        return adminUserMapper_selectOne(queryWrapper);
   }
}
```

```
package com.mszlu.xt.admin.domain;

import com.mszlu.common.model.CallResult;
import com.mszlu.xt.admin.dao.data.AdminUser;
import
com.mszlu.xt.admin.domain.repository.AdminUserDomainRepository;
import com.mszlu.xt.admin.model.param.AdminUserParam;

public class AdminUserDomain {
    private AdminUserDomainRepository adminUserDomainRepository;
    private AdminUserParam adminUserParam;

    public AdminUserDomain(AdminUserDomainRepository
adminUserDomainRepository, AdminUserParam adminUserParam) {
        this.adminUserDomainRepository = adminUserDomainRepository;
        this.adminUserParam = adminUserParam;
    }

    public CallResult<Object> findUserByUsername() {
```

```
AdminUser adminUser =
adminUserDomainRepository.findUserByUsername(this.adminUserParam.ge
tUsername());
    return CallResult.success(adminUser);
}
```

6. 创建SpringSecurityService 实现SpringSecurity提供的UserDetailsService接口, 实现用户认证

```
package com.mszlu.xt.admin.security;
import com.mszlu.common.model.CallResult;
import com.mszlu.xt.admin.dao.data.AdminUser;
import com.mszlu.xt.admin.service.AdminUserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import
org.springframework.security.core.userdetails.UserDetailsService;
import
org.springframework.security.core.userdetails.UsernameNotFoundExcep
tion;
import
org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.stereotype.Component;
import java.util.ArrayList;
import java.util.List;
@Component
public class SpringSecurityService implements UserDetailsService {
    @Autowired
    private AdminUserService adminUserService;
    @Override
    public UserDetails loadUserByUsername(String username) throws
UsernameNotFoundException {
        List<GrantedAuthority> list = new ArrayList<>();
        CallResult callResult =
adminUserService findUser(username);
        if (!callResult.isSuccess()){
```

```
throw new UsernameNotFoundException("用户名不存在");
}
AdminUser adminUser = (AdminUser) callResult.getResult();
return new User(username,adminUser.getPassword(),list);
}

public static void main(String[] args) {
    System.out.println(new
BCryptPasswordEncoder().encode("admin"));
}
```

7. 测试

2.3 管理台新闻管理

2.3.1 需求

web端向用户展示了新闻列表,自然需要运营人员在管理台进行新闻的管理。

添加,删除,修改等。

字段	索引	外键	触发器	选项	注释	SQL 预	览				
名				类型		长度	小数点	不是 n	虚拟	键	注释
id				bigint		0	0	\checkmark		p T	id
title				varcha	•	255	0	\checkmark			新闻题目
sumn	nary			varchai		255	0	\checkmark			新闻概述
image	e_url			varchai	-	255	0	\checkmark			封面图片地址
conte	ent			text		0	0	\checkmark			内容
tab				tinyint		0	0	\checkmark			标签
create	e_time			bigint		0	0	\checkmark			创建时间
autho	or			varcha		255	0	\checkmark			作者
n_sta	tus			tinyint		0	0	\checkmark			状态 0 有效 1 无效

```
package com.mszlu.xt.admin.dao.data;
import com.baomidou.mybatisplus.annotation.TableField;
import lombok.Data;
/**
```

```
* 新闻
*/
@Data
public class News {
   private Long id;
    private String title;
    private String summary;
    private String imageUrl;
    private String content;
    /**
    * 1 题库 2 升学 3 其他
    private Integer tab;
    private Long createTime;
    private String author;
    /**
    * 0 正常 1 删除
    */
   @TableField("n_status")
    private Integer status;
}
```

2.3.2 步骤分析

- 1. 新建页面, news.html放入pages目录
- 2. 写对应的admin接口,实现新闻的分页查询,添加,修改,删除功能。

2.3.3 编码

- 1. 将资料中的news.html拷贝到pages目录
- 2. 新建NewsController,按照页面的接口定义,实现对应的接口

```
package com.mszlu.xt.admin.model.param;
import lombok.Data;

@Data
public class NewsParam {
    private int page = 1;
    private int pageSize = 20;
    private Long id;
    private Integer tab;
```

```
private String title;
private String summary;
private String imageUrl;
private String content;
private Long createTime;
private String author;
/**
 * 0 正常 1 删除
 */
private Integer status;
}
```

```
package com.mszlu.xt.admin.controller;
import com.mszlu.common.model.CallResult;
import com.mszlu.xt.admin.model.param.NewsParam;
import com.mszlu.xt.admin.service.NewsService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
/**
* @author Jarno
*/
@RestController
@RequestMapping("news")
public class AdminNewsController {
    @Autowired
    private NewsService newsService;
    @RequestMapping(value = "save")
    public CallResult save(@RequestBody NewsParam newsParam){
        return newsService.save(newsParam);
    }
    @RequestMapping(value = "update")
    public CallResult update(@RequestBody NewsParam newsParam) {
```

```
return newsService.update(newsParam);
}

@RequestMapping(value = "findNewsById")
public CallResult findNewsById(@RequestBody NewsParam
newsParam){
    return newsService.findNewsById(newsParam);
}

@RequestMapping(value = "findPage")
public CallResult findPage(@RequestBody NewsParam newsParam){
    return newsService.findPage(newsParam);
}
```

3. 实现NewsService

```
package com.mszlu.xt.admin.service;
import com.mszlu.common.model.CallResult;
import com.mszlu.xt.admin.model.param.NewsParam;

public interface NewsService {
    CallResult save(NewsParam newsParam);
    CallResult update(NewsParam newsParam);

    CallResult findNewsById(NewsParam newsParam);

CallResult findPage(NewsParam newsParam);
}
```

```
package com.mszlu.xt.admin.service.impl;
import com.mszlu.common.model.CallResult;
import com.mszlu.common.service.AbstractTemplateAction;
import com.mszlu.xt.admin.domain.NewsDomain;
import com.mszlu.xt.admin.domain.repository.NewsDomainRepository;
```

```
import com.mszlu.xt.admin.model.param.NewsParam;
import com.mszlu.xt.admin.service.NewsService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class NewsServiceImpl extends AbstractService implements
NewsService {
   @Autowired
    private NewsDomainRepository newsDomainRepository;
   @Override
    public CallResult save(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this.serviceTemplate.execute(new
AbstractTemplateAction<Object>() {
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.save();
            }
       });
    }
   @Override
    public CallResult update(NewsParam newsParam) {
       NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this.serviceTemplate.execute(new
AbstractTemplateAction<0bject>() {
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.update();
       });
    }
    @Override
    public CallResult findNewsById(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this service Template execute (new
AbstractTemplateAction<0bject>() {
```

```
@Override
            public CallResult<Object> doAction() {
                return newsDomain.findNewsById();
            }
        });
    }
    @Override
    public CallResult findPage(NewsParam newsParam) {
        NewsDomain newsDomain =
this newsDomainRepository createDomain(newsParam);
        return this service Template execute (new
AbstractTemplateAction<0bject>() {
            @Override
            public CallResult<Object> doAction() {
                return newsDomain.findPage();
            }
        });
    }
}
```

```
package com.mszlu.xt.admin.domain;
import com.baomidou.mybatisplus.extension.plugins.pagination.Page;
import com.mszlu.common.model.CallResult;
import com.mszlu.common.model.ListModel;
import com.mszlu.xt.admin.dao.data.News;
import com.mszlu.xt.admin.domain.repository.NewsDomainRepository;
import com.mszlu.xt.admin.model.NewsModel;
import com.mszlu.xt.admin.model.enums.NewsTab;
import com.mszlu.xt.admin.model.param.NewsParam;
import org.apache.commons.lang3.StringUtils;
import org.joda.time.DateTime;
import org.springframework.beans.BeanUtils;
import java.util.ArrayList;
import java.util.List;
public class NewsDomain {
    private NewsDomainRepository newsDomainRepository;
    private NewsParam newsParam;
```

```
public NewsDomain(NewsDomainRepository newsDomainRepository,
NewsParam newsParam) {
        this newsDomainRepository = newsDomainRepository;
        this newsParam = newsParam;
    }
    public CallResult<Object> update() {
        Long id = this.newsParam.getId();
        News news = this.newsDomainRepository.findNews(id);
        if (news != null){
            String author = this.newsParam.getAuthor();
            if (!StringUtils.isEmpty(author)){
                news_setAuthor(author);
            }
            String title = this.newsParam.getTitle();
            if (!StringUtils.isEmpty(title)){
                news.setTitle(title);
            }
            String content = this.newsParam.getContent();
            if (!StringUtils.isEmpty(content)){
                news_setContent(content);
            }
            String summary = this.newsParam.getSummary();
            if (!StringUtils.isEmpty(summary)){
                news.setSummary(summary);
            }
            String imageUrl = this.newsParam.getImageUrl();
            if (!StringUtils.isEmpty(imageUrl)){
                news.setImageUrl(imageUrl);
            }
            Integer tab = this.newsParam.getTab();
            if (tab != null && NewsTab.valueOfCode(tab) != null){
                news_setTab(tab):
            Integer status = this.newsParam.getStatus();
            if (status != null){
                news_setStatus(status);
            }
        this newsDomainRepository updateNews (news);
        return CallResult.success();
    }
    public CallResult<Object> save() {
```

```
News news = new News();
        news.setAuthor(this.newsParam.getAuthor());
        news.setContent(this.newsParam.getContent());
        news.setCreateTime(System.currentTimeMillis());
        news.setSummary(this.newsParam.getSummary());
        news.setImageUrl(this.newsParam.getImageUrl());
        news.setTitle(this.newsParam.getTitle());
        Integer status = this.newsParam.getStatus();
        if (status == null){
            status = 0;
        }
        news_setStatus(status);
        news.setTab(this.newsParam.getTab());
        this newsDomainRepository save(news);
        return CallResult.success();
    }
    public CallResult<Object> findNewsById() {
       News news =
this newsDomainRepository findNews(this newsParam getId());
        return CallResult.success(news);
    public CallResult<Object> findPage() {
        int page = this.newsParam.getPage();
        int pageSize = this.newsParam.getPageSize();
        Page<News> newsPage =
this newsDomainRepository findAll(page, pageSize);
        ListModel<NewsModel> listModel = new ListModel<>();
        int total = (int) newsPage.getTotal();
        listModel.setTotal(total);
        List<News> result = newsPage.getRecords();
        List<NewsModel> newsModelList = new ArrayList<>();
        for (News news : result) {
            NewsModel newsModel();
            BeanUtils.copyProperties(news,newsModel);
            newsModel_setCreateTimeStr(new
DateTime(news.getCreateTime()).toString("yyyy-MM-dd HH:mm:ss"));
            newsModelList.add(newsModel);
        listModel.setList(newsModelList);
        listModel.setPage(page);
        listModel.setPageCount((int) newsPage.getPages());
        return CallResult_success(listModel):
```

```
}
```

```
package com.mszlu.xt.admin.domain.repository;
import
com.baomidou.mybatisplus.core.conditions.query.LambdaQueryWrapper;
import com.baomidou.mybatisplus.extension.plugins.pagination.Page;
import com.mszlu.xt.admin.dao.NewsMapper;
import com.mszlu.xt.admin.dao.data.News;
import com.mszlu.xt.admin.domain.NewsDomain;
import com.mszlu.xt.admin.model.param.NewsParam;
import org.springframework.stereotype.Component;
import javax.annotation.Resource;
@Component
public class NewsDomainRepository {
    @Resource
    private NewsMapper newsMapper;
    public NewsDomain createDomain(NewsParam newsParam) {
        return new NewsDomain(this,newsParam);
    }
    public News findNews(Long id) {
        return newsMapper.selectById(id);
    }
    public void save(News news) {
        newsMapper.insert(news);
    }
    public void updateNews(News news) {
        newsMapper updateById(news);
    }
    public Page<News> findAll(int page, int pageSize) {
        LambdaQueryWrapper<News> queryWrapper = new
LambdaQueryWrapper<>();
        Page<News> page1 = new Page<>(page,pageSize);
        queryWrapper.orderByDesc(News::getCreateTime);
        return newsMapper.selectPage(page1,queryWrapper);
```

```
}
```

```
package com.mszlu.common.model;
import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
/**
* @author Jarno
*/
public class ListModel<T> implements Serializable {
    private int pageCount;
    private int page;
    private int total;
    private List<T> list;
    public int getPageCount() {
        return pageCount;
    }
    public void setPageCount(int pageCount) {
        this pageCount = pageCount;
    }
    public List<T> getList() {
        return list;
    }
    public void setList(List<T> list) {
        this.list = list;
    }
    public int getPage() {
        return page;
    }
    public void setPage(int page) {
```

```
this page = page;
    }
    public ListModel<T> initNull() {
        ListModel<T> listModel = new ListModel<T>();
        listModel.setList(new ArrayList<T>());
        listModel.setPage(1);
        listModel.setPageCount(1);
        return listModel;
    }
    public int getTotal() {
        return total;
    }
    public void setTotal(int total) {
        this.total = total;
    }
}
```

```
package com.mszlu.xt.admin.model;
import lombok.Data;
/**
* 新闻
*/
@Data
public class NewsModel {
    private Long id;
    private String title;
    private String summary;
    private String imageUrl;
    private String content;
    /**
    * 1 题库 2 升学 3 其他
    */
    private Integer tab;
    private Long createTime;
    private String author;
    /**
     * 0 正常 1 删除
     */
```

```
private Integer status;

private String createTimeStr;
}
```

```
package com.mszlu.xt.admin.model.enums;
import java.util.HashMap;
import java.util.Map;
/**
* @author Jarno
*/
public enum NewsTab {
   /**
    * look name
    */
   TK(1,"tk"),
   SX(2,"sx"),
   OTHER(3,"OTHER");
    private static final Map<Integer, NewsTab> CODE_MAP = new
HashMap <> (3);
    static{
        for(NewsTab topicType: values()){
            CODE_MAP.put(topicType.getCode(), topicType);
        }
    }
    /**
    * 根据code获取枚举值
    * @param code
    * @return
    */
    public static NewsTab valueOfCode(int code){
        return CODE_MAP.get(code);
    }
    private int code;
    private String msg;
   NewsTab(int code, String msg) {
```

```
this code = code;
        this.msg = msg;
    }
    public int getCode() {
        return code;
    }
    public void setCode(int code) {
        this code = code;
    }
    public String getMsg() {
        return msg;
    }
    public void setMsg(String msg) {
        this msg = msg;
    }
}
```

4. 测试

2.4 添加图片上传功能

elementui地址: https://element.eleme.cn/#/zh-CN/component/installation 其中文件上传组件的代码:

```
<el-upload
  class="avatar-uploader"
  action="https://jsonplaceholder.typicode.com/posts/"
    :show-file-list="false"
    :on-success="handleAvatarSuccess"
    :before-upload="beforeAvatarUpload">
        <ii>img v-if="imageUrl" :src="imageUrl" class="avatar">
        <i v-else class="el-icon-plus avatar-uploader-icon"></i>
        </el-upload>
    </script>
```

```
export default {
    data() {
      return {
        imageUrl: ''
     };
   },
   methods: {
     handleAvatarSuccess(res, file) {
       this.imageUrl = URL.createObjectURL(file.raw);
     },
     beforeAvatarUpload(file) {
        const isJPG = file.type === 'image/jpeg';
        const isLt2M = file.size / 1024 / 1024 < 2;</pre>
       if (!isJPG) {
         this.$message.error('上传头像图片只能是 JPG 格式!');
        if (!isLt2M) {
         this.$message.error('上传头像图片大小不能超过 2MB!');
        return isJPG && isLt2M;
     }
    }
</script>
```

2.4.1 修改新闻管理

新增和编辑弹窗修改:

```
<el-form-item label="图片地址" prop="imageUrl">
                                             <el-upload
                                                     class="avatar-
uploader"
action="/lzadmin/news/upload"
                                                        name="newsImage"
                                                     :show-file-
list="false"
                                                     :on-
success="handleAvatarSuccess"
                                                     :before-
upload="beforeAvatarUpload">
                                                 <img v-
if="formData.imageUrl" :src="formData.imageUrl" class="avatar">
                                                 <i v-else class="el-
icon-plus avatar-uploader-icon"></i></i>
                                             </el-upload>
                                         </el-form-item>
```

2.4.2 写上传图片接口

使用七牛云上传

文档地址: https://developer.qiniu.com/kodo/1239/java#upload-file

依赖:

```
<dependency>
  <groupId>com.qiniu</groupId>
  <artifactId>qiniu-java-sdk</artifactId>
  <version>[7.7.0, 7.7.99]</version>
</dependency>
```

工具类:

```
package com.mszlu.common.utils;
import com.alibaba.fastjson.JSON;
import com.qiniu.common.QiniuException;
import com.qiniu.http.Response;
import com.qiniu.storage.Configuration;
import com.qiniu.storage.Region;
import com.giniu.storage.UploadManager;
import com.giniu.storage.model.DefaultPutRet;
import com.qiniu.util.Auth;
public class OiniuUtils {
    public static boolean upload(String accessKey,String
secretKey,String bucket,byte[] uploadBytes,String key){
       //构造一个带指定 Region 对象的配置类
       Configuration cfg = new Configuration(Region huabei());
// ... 其他参数参考类注释
       UploadManager uploadManager = new UploadManager(cfg);
//***生成上传凭证、然后准备上传
//默认不指定key的情况下,以文件内容的hash值作为文件名
       Auth auth = Auth.create(accessKey, secretKey);
       String upToken = auth_uploadToken(bucket);
       try {
           Response response = uploadManager.put(uploadBytes, key,
upToken);
           //解析上传成功的结果
           DefaultPutRet putRet =
JSON.parseObject(response.bodyString(), DefaultPutRet.class);
           return true;
       } catch (QiniuException ex) {
           Response r = ex_response;
           System.err.println(r.toString());
           try {
```

配置类:

```
package com.mszlu.xt.admin.config;

import lombok.Data;
import
org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.context.annotation.Configuration;

@Configuration
@ConfigurationProperties(prefix = "qiniu")
@Data
public class QiniuConfig {

   public String accessKey;

   public String accessSecret;

   public String bucket;
}
```

```
qiniu.accessKey=111
qiniu.accessSecret=222
qiniu.bucket=mszlu
qiniu.url=https://static.mszlu.com/
```

上传:

```
@Autowired private QiniuConfig qiniuConfig;
```

```
@PostMapping("upload")
   public CallResult upload(@RequestParam("newsImage")MultipartFile
file){
        String suffix =
StringUtils.substringAfterLast(file.getOriginalFilename(), ".");
        if (!"jpq,jpeq,png".contains(suffix)){
CallResult.fail(BusinessCodeEnum.CHECK PARAM NO RESULT.getCode(),"图片格
式错误");
        DateTime dateTime = new DateTime();
        String fileName = "xt/"+ dateTime.toString("yyyy")+"/" +
dateTime.toString("mm")+"/"+UUID.randomUUID().toString()+"."+suffix;
        boolean upload = false;
        try {
            upload = QiniuUtils.upload(qiniuConfig.accessKey,
qiniuConfig.accessSecret, qiniuConfig.bucket, file.getBytes(),
fileName);
            if (upload){
                return CallResult.success(qiniuConfig.url+fileName);
        } catch (IOException e) {
            e.printStackTrace();
        return
CallResult.fail(BusinessCodeEnum.CHECK_PARAM_NO_RESULT.getCode(),"上传失
败");
    }
```

2.5 JRebel热部署

百度搜JRebel查询的资料: https://blog.csdn.net/lianghecai52171314/article/details/1
05637251