

项目内容

实现博客网站，有登录，注册，查看文章，发布文章，评论文章，点赞文章和个人信息的功能，并且用户区分管理员，普通用户和游客用户，游客用户只能查看文章，不能发布文章。而且只有管理员账号可以进入后台页面，查看所有的用户信息，文章信息，评论信息，用户的登录登出信息，后端 sql 语句的执行日志信息和用户身份的配置信息。并且页脚记录了网站的访问量。

项目的技术栈

本项目采用前后端分离的架构，前端使用 Vue 框架编写，后端使用 SpringBoot 框架加上 MyBatis 数据库操作框架编写。用 MySQL 数据库来存放用户，文章，评论信息，用 redis 数据库来存取网站的访问量。

数据库的设计

一共有六个：

tb_user 负责记录用户信息。有 id ， username ， password （进行 md5 加密）， type （用户身份）， avatar （用户头像）等用户的信息数据。

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
username	varchar(30)	NO	UNI	NULL	
password	varchar(300)	NO		NULL	
type	enum('admin','user','visitor')	NO		user	
phone	varchar(20)	YES			
email	varchar(30)	YES			
age	int(11)	YES		NULL	
sex	varchar(3)	YES		0	
location	varchar(100)	YES			
avatar	varchar(1000)	YES			
last_login	datetime	YES		NULL	
register_time	datetime	NO		NULL	
is_delete	tinyint(4)	YES		0	
ps	text	YES		NULL	
intro	text	YES		NULL	

15 rows in set (0.03 sec)

tb_passage 负责记录文章信息，包括文字内容，文章作者信息，文章分类标签，文章标题，文章的点赞数，文章的访问数，文章的最近更新时间，文章的发布时间。

```
mysql> show columns from tb_passage;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
author_id	int(11)	NO		NULL	
description	text	NO		NULL	
title	varchar(50)	NO		NULL	
content	text	YES		NULL	
type	varchar(30)	NO		NULL	
create_time	datetime	NO		NULL	
update_time	datetime	YES		NULL	
like_num	int(11)	NO		0	
visit_num	int(11)	NO		0	
is_delete	tinyint(4)	YES		0	

11 rows in set (0.00 sec)

`tb_comment` 负责记录文章的评论信息，包括评论内容，评论的文章 `id`，评论的用户信息，评论的点赞数，评论的发布时间。

```
mysql> show columns from tb_comment;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
passage_id	int(11)	NO		NULL	
content	text	NO		NULL	
commentator_id	int(11)	NO		NULL	
commentator_username	varchar(30)	NO		NULL	
create_time	datetime	NO		NULL	
like_num	int(11)	NO		0	
is_delete	tinyint(4)	YES		0	

8 rows in set (0.01 sec)

`tb_sql_log` 是用于记录 `sql` 语句的执行日志信息，用 `MySQL` 自带的触发器功能实现。

```
mysql> show columns from tb_sql_log;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
operation	text	NO		NULL	
time	datetime	NO		NULL	
operation_params	text	NO		NULL	

4 rows in set (0.00 sec)

tb_login_log 用于记录用户的登录登出日志，包括用户登录退出时的 ip 和时间。

```
mysql> show columns from tb_login_log;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
username	varchar(30)	NO		NULL	
type	enum('admin','user','visitor')	NO		NULL	
ip	varchar(20)	YES			
time	datetime	NO		NULL	
action	enum('登录','退出')	NO		NULL	

```
6 rows in set (0.00 sec)

mysql>
```

tb_about 用于记录管理员对网页的介绍。

```
mysql> show columns from tb_about;
```

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
content	text	NO		NULL	

```
2 rows in set (0.00 sec)
```

思路分析

在整体架构方面，后端采取了 MVC 的模式，将代码分为 pojo 层，dao 层和 controller 层。并且用 service 层封装了业务代码。

在登录方面，这里登录使用了 JWT 技术，通过 JWT 来防止客户端伪造 admin，来保护网站的安全性。示例代码如下：

```
package com.just.utils;

import com.just.pojo.User;
import com.just.service.UserService;
import io.jsonwebtoken.Claims;
import io.jsonwebtoken.Jwts;
import io.jsonwebtoken.SignatureAlgorithm;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;

import javax.servlet.http.HttpServletRequest;
import java.security.PrivateKey;
```

```

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

@Component
public class JwtUtil {

    /**
     * Spring 容器所管理的主要是对象实例，而@Autowired 依赖注入的都是容器内的对象实例，
     * 在 Java 中 static 修饰的静态属性（变量和方法）是属于类的，而非属于实例对象。
     * 当类加载器加载静态变量时，Spring上下文尚未加载完成，则类加载器不会在 Bean
     * 中正确注入属性。如下是一个错误的例子：
     */
    // @Autowired
    // private static UserService userService;

    //办法1: @Autowired + 构造器
    private static UserService userService;

    @Autowired
    public JwtUtil(UserService userService) {
        JwtUtil.userService = userService;
    }

    //一天过期
    private static long expire = 60 * 60 * 24;
    //JWT密钥
    private static String secretKey =
    "helloworld@Ilikeyou_justdoit+thestoryneverends~#lauv;ItsOK!~";

    /**
     * 提供username和type返回token
     *
     * @param username
     * @param type
     * @return
     */
    public static String generateToken(String username, String type) {
        Date now = new Date();
        Date expiration = new Date(now.getTime() + 1000 * expire);
        Map<String, Object> payload = new HashMap<>();
        payload.put("username", username);
        payload.put("type", type);
        return Jwts.builder()
            .setHeaderParam("type", "JWT")
            .setClaims(payload)
    }
}

```

```

        .setIssuedAt(now)
        .setExpiration(expiration)
        .signWith(SignatureAlgorithm.HS512, secretKey)
        .compact();
    }

    /**
     * 验证token是否有效
     *
     * @param token
     * @param user
     * @return
     */
    public static boolean validateToken(String token, User user) {
        String username = getUsernameByToken(token);
        String type = getTypeByToken(token);
        Date expiredDate = getExpiredDateByToken(token);
        return username.equals(user.getUsername()) && type.equals(user.getType())
        && !expiredDate.before(new Date());
    }

    /**
     * 从token中获取用户名
     *
     * @param token
     * @return
     */
    public static String getUsernameByToken(String token) {
        return (String) getClaimsByToken(token).get("username");
    }

    /**
     * 从toke中获取用户类型
     *
     * @param token
     * @return
     */
    public static String getTypeByToken(String token) {
        return (String) getClaimsByToken(token).get("type");
    }

    /**
     * 从toke中获取到期时间
     *
     * @param token

```

```

    * @return
    */
    public static Date getExpiredDateByToken(String token) {
        return getClaimsByToken(token).getExpiration();
    }

    /**
     * 从token中获取claims
     * @param token
     * @return
     */
    public static Claims getClaimsByToken(String token) {
        return Jwts.parser()
            .setSigningKey(secretKey)
            .parseClaimsJws(token)
            .getBody();
    }

    /**
     * 从request获取用户id的工具方法，简化controller层的代码
     * @param request
     * @return
     */
    public static Integer getIdFromRequest(HttpServletRequest request) {
        try {
            String token = request.getHeader("Authorization");
            String username = JwtUtil.getUsernameByToken(token);
            User user = userService.selectByUsername(username);
            return user.getId();
        } catch (Exception e) {
            return null;
        }
    }

    /**
     * 从request获取用户type的工具方法，简化controller层验证身份时的代码
     * 也便于以后修改token的存储方式
     * @param request
     * @return
     */
    public static String getTypeFromRequest(HttpServletRequest request) {
        try {
            String token = request.getHeader("Authorization");
            return getTypeByToken(token);
        } catch (Exception e) {
            return null;
        }
    }

```

```

    }
}
}

```

在 dao 层方面, 通过 MyBatis 来操作数据库, 并使用 @Results 注解, 解决了数据库字段名和 pojo 实体类字段名不一致的问题。示例代码如下:

```

package com.just.dao;

import com.just.pojo.About;
import com.just.pojo.Comment;
import com.just.pojo.Passage;
import org.apache.ibatis.annotations.*;

import java.util.List;

@Mapper
public interface PassageDao {
    @Select("select * from tb_passage where is_delete != 1")
    @Results(
        id = "passageMap",
        value = {
            @Result(column = "author_id", property = "authorId"),
            @Result(column = "create_time", property = "createTime"),
            @Result(column = "update_time", property = "updateTime"),
            @Result(column = "like_num", property = "likeNum"),
            @Result(column = "visit_num", property = "visitNum"),
            @Result(column = "is_delete", property = "del"),
        }
    )
    public List<Passage> selectAll();

    @Select("select * from tb_passage where author_id = #{authorId} and is_delete != 1")
    @ResultMap({"passageMap"})
    public List<Passage> selectPassageByAuthorId(Integer authorId);

    @Select("select * from tb_passage where id = #{id} and is_delete != 1")
    @ResultMap({"passageMap"})
    public Passage selectById(Integer id);

    @Delete("update tb_passage set is_delete = 1 where id = #{id}")
    public int deletePassage(Integer id);

    @Update("update tb_passage set title = #{title}, content = #{content}, " +
        "description = #{description}, type = #{type}, update_time = #

```

```

{updateTime} where id = #{id}")
    public int updatePassage(Passage passage);

    @Insert("insert into tb_passage
(id,author_id,description,title,content,type,create_time) " +
        "values (null, #{authorId},#{description},#{title},#{content},#{type},#{
createTime})")
    public int add(Passage passage);

    @Select("select max(id) from tb_passage")
    public int selectMaxId();

    @Update("update tb_passage set like_num = like_num + 1 where id = #
{passageId}")
    public int increaseLikeNum(Integer passageId);

    @Select("select * from tb_about where id = 1")
    public About selectAbout();

    @Update("update tb_about set content = #{content} where id = 1")
    public int updateAbout(String content);

    @Update("update tb_passage set update_time = #{update_time} where id = #{id}")
    public int updateUpdateTime(Passage passage);
}

```

在记录网页访问量的时候，我使用了 Spring 中的 AOP 技术，来对全局路由访问记录访问量，这里其实还有待优化，因为用户的一次请求可能会经历多次访问接口。

AOP 切面代码：

```

package com.just.controller.aop;

import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Before;
import org.aspectj.lang.annotation.Pointcut;
import org.springframework.data.redis.core.RedisTemplate;
import org.springframework.data.redis.core.ValueOperations;
import org.springframework.stereotype.Component;

import javax.annotation.Resource;

@Component
@Aspect
public class LogAdvice {
    @Resource

```



```

private RedisTemplate redisTemplate;

/**
 * 对所有代码进行aop，记录网站访问量
 * 但是弊端是一次请求会有多个数据包，导致记录多次
 * 暂时只记录主页的访问量
 */
@Pointcut("execution(public *
com.just.controller.PassageController.selectIndexPassage(..))")
private void pv(){}

@Before("pv()")
public void increPV(){
    ValueOperations valueOperations = redisTemplate.opsForValue();
    Object pv = valueOperations.get("pv");
    if (pv == null){
        valueOperations.set("pv", 1);
    }else {
        Long pv1 = valueOperations.increment("pv");
    }
}
}

```

在操作鉴权方面（限定只有 admin 用户可以访问后台页面的接口），这里我使用了 Spring 中的拦截器，来对所有的 admin 才能访问的接口进行拦截，判断其携带的 jwt 是否合法且属性为 admin，不合法就拦截接口，不让放行。

```

package com.just.controller.interceptor;

import com.just.controller.Result;
import com.just.utils.AuthorityUtil;
import org.springframework.http.HttpMethod;
import org.springframework.web.servlet.HandlerInterceptor;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class AdminInterceptor implements HandlerInterceptor {
    @Override
    public boolean preHandle(HttpServletRequest request, HttpServletResponse
response, Object handler) throws Exception {
        System.out.println("====AdminInterceptor====");
        //放行跨域请求的第一次option请求，解决第二次请求拦截器无法得到header的问题
        if (HttpMethod.OPTIONS.toString().equals(request.getMethod())){
            System.out.println("OPTIONS请求，放行...");
            return true;
        }
    }
}

```

```

    }
    String uri = request.getRequestURI();
    System.out.println("token = " + request.getHeader("Authorization"));
    System.out.println("token = " + request.getHeader("authorization"));
    boolean isAdmin = AuthorityUtil.isAdmin(request);
    if (!isAdmin){
        System.out.println("defend " + uri);
    }else {
        System.out.println("welcome admin to " + uri);
    }
    return isAdmin;
}
}

```

在请求的返回响应中，我使用了统一封装结果类来统一返回数据的结果，里面有三个字段，`msg` 存放结果的提示消息，`data` 存储结果的内容，`error` 存放这个结果是否出现了错误，出现了错误就为 `error`，反之则为空。

```

package com.just.controller;

import com.fasterxml.jackson.annotation.JsonView;
import com.just.utils.AnnotationUtil;
import com.just.utils.JwtUtil;
import lombok.Data;
import org.apache.ibatis.javassist.bytecode.annotation.Annotation;

import java.lang.reflect.Field;

@Data
public class Result {
    private String msg;
    @JsonView
    private Object data;
    private String error;

    public Result(String msg, Object data, String error) {
        this.msg = msg;
        this.data = data;
        this.error = error;
    }
}

/**
 * 动态修改@JsonView注解的内容
 * 解决@JsonView不能返回嵌套对象的问题
 * @param msg
 * @param data

```

```

    * @param error
    * @param view
    * @return
    * @throws NoSuchFieldException
    */
    public static Result getResult(String msg, Object data, String error, Class
view) throws NoSuchFieldException {
        Result result = new Result(msg,data, error);
        Field field = result.getClass().getDeclaredField("data");
        AnnotationUtil.modifyAnnoByReflex_field(field, view);
        return result;
    }
}

```

在控制返回数据的结果时，由于数据库的用户表存放了用户的所有消息，但是有时候前端并不需要用户的所有信息，这里我用 SpringBoot 提供的 @JsonView 注解来动态控制 controller 返回的实体类里面的数据有哪些字段，保证安全。

```

package com.just.pojo;

import com.fasterxml.jackson.annotation.JsonIgnore;
import com.fasterxml.jackson.annotation.JsonView;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
import org.springframework.data.annotation.ReadOnlyProperty;

import java.util.Date;

@Data
@NoArgsConstructor
@AllArgsConstructor
public class User {
    @JsonView(SessionUser.class)
    private int id;
    @JsonView(SessionUser.class)
    private String username;
    private String password;
    @JsonView(SessionUser.class)
    private String type;
    private String phone;
    private String location;
    private String ps;
    private String intro;
    private String email;
}

```

```

    private int age;
    private char sex;
    @JsonView(SessionUser.class)
    private String avatar;
    private Date lastLogin;
    private Date registerTime;
    @JsonIgnore
    private boolean del;

    public interface SessionUser{

    }
}

```

```

package com.just.controller;

import com.fasterxml.jackson.annotation.JsonView;
import com.github.pagehelper.PageHelper;
import com.github.pagehelper.PageInfo;
import com.just.service.UserService;
import com.just.service.impl.UserServiceImpl;
import com.just.utils.AuthorityUtil;
import com.just.utils.JwtUtil;
import org.apache.ibatis.annotations.Delete;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import com.just.pojo.User;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;
import java.util.List;

@RestController
@CrossOrigin
@RequestMapping("/user")
public class UserController {

    @Autowired
    private UserService userService;

    @GetMapping("/add")
    public Result addUser(@RequestBody User user){
        if (!userService.checkUsername(user.getUsername())){
            return new Result("账号已存在", null, "error");
        } else {
            userService.insert(user);
            return new Result(null, null, null);
        }
    }
}

```

```

    }
}

@GetMapping("/all/{page}")
public Result selectAll(@PathVariable Integer page, HttpServletRequest request)
{
    if (!AuthorityUtil.isAdmin(request)){
        return new Result("无此权限", null, "error");
    }
    PageHelper.startPage(page, 10);
    List<User> users;
    try {
        users = userService.selectAll();
    }catch (Exception e){
        e.printStackTrace();
        return new Result("服务端出现异常", null, "error");
    }
    PageInfo<User> userPageInfo = new PageInfo<>(users);
    List<User> list = userPageInfo.getList();
    return new Result(null, list, null);
}

@GetMapping("/size")
public Result selectAllSize(HttpServletRequest request){
    if (!AuthorityUtil.isAdmin(request)){
        return new Result("无此权限", null, "error");
    }
    return new Result(null, userService.selectAll().size(), null);
}

@GetMapping("/{id}")
public Result selectById(@PathVariable Integer id){
    User user;
    try {
        user = userService.selectById(id);
    }catch (Exception e){
        e.printStackTrace();
        return new Result("服务端出现异常", null, "error");
    }
    return new Result(null, user, null);
}

@GetMapping("/{id}")
public Result deleteById(@PathVariable Integer id, HttpServletRequest request){
    if (!AuthorityUtil.isAdmin(request)){
        return new Result("无此权限", null, "error");
    }
}

```

```

    }
    try {
        userService.deleteById(id);
    } catch (Exception e) {
        e.printStackTrace();
        return new Result("服务端出现异常", null, "error");
    }
    return new Result("删除成功", null, null);
}

@PostMapping("/updateInfo")
public Result updateInfo(@RequestBody User user, HttpServletRequest request) {
    //检查请求修改的用户id是否和当前用户的id一致,防止篡改请求包的id修改任意用户的信息,
    否则返回无权限
    if (!AuthorityUtil.isSelf(request, user.getId())) {
        return new Result("无此权限", null, "error");
    }
    try {
        userService.updateInfo(user);
    } catch (Exception e) {
        e.printStackTrace();
        return new Result("服务端出现异常", null, "error");
    }
    return new Result("更新成功", null, null);
}

@PostMapping("/updateType")
public Result updateType(@RequestBody User user, HttpServletRequest request) {
    if (!AuthorityUtil.isAdmin(request)) {
        return new Result("无此权限", null, "error");
    }
    userService.updateType(user.getId(), user.getType());
    return new Result(null, null, null);
}
}

```

在前端需要分页这方面，我使用了 `PageHelper` 这个工具来帮助简化分页的操作。

```

package com.just.controller;

import com.fasterxml.jackson.annotation.JsonCreator;
import com.fasterxml.jackson.annotation.JsonView;
import com.fasterxml.jackson.core.JsonParser;
import com.github.pagehelper.PageHelper;
import com.github.pagehelper.PageInfo;

```

```

import com.just.pojo.About;
import com.just.pojo.Passage;
import com.just.pojo.User;
import com.just.service.PassageService;
import com.just.service.UserService;
import com.just.utils.AuthorityUtil;
import com.just.utils.JwtUtil;
import io.jsonwebtoken.Jwt;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import java.util.Date;
import java.util.List;

@RestController
@CrossOrigin
@RequestMapping("/passage")
public class PassageController {
    @Autowired
    private PassageService passageService;

    @Autowired
    private UserService userService;

    /**
     * 分页返回所有的文章
     * admin可以访问
     * @param page
     * @return
     */
    @GetMapping("/all/{page}")
    public Result selectAllPassage(@PathVariable Integer page, HttpServletRequest
request) {
        if (!AuthorityUtil.isAdmin(request)) {
            return new Result("无此权限", null, "error");
        }
        PageHelper.startPage(page, 10);
        List<Passage> passageList = passageService.selectAllPassage();
        if (passageList == null || passageList.isEmpty()) {
            return new Result("暂无数据", null, "error");
        } else {
            PageInfo<Passage> passagePageInfo = new PageInfo<>(passageList);
            List<Passage> list = passagePageInfo.getList();

```

```

        return new Result(null, list, null);
    }
}

/**
 * 处理首页的文章列表
 *
 * @param page
 * @return
 * @throws NoSuchFieldException
 */
@JsonView(Passage.IndexPassage.class)
@GetMapping("/index/{page}")
public Result selectIndexPassage(@PathVariable Integer page, HttpServletRequest
request) throws NoSuchFieldException {
    PageHelper.startPage(page, 5);
    List<Passage> passageList = passageService.selectIndexPassage();
    if (passageList == null || passageList.isEmpty()) {
        return new Result("暂无数据", null, "error");
    } else {
        return new Result(null, passageList, null);
    }
}

/**
 * 根据文章id获取文章详情
 *
 * @param passageId
 * @return
 */
@GetMapping("/{passageId}")
public Result selectOneByPassageId(@PathVariable Integer passageId) {
    Passage passage = passageService.selectById(passageId);
    return new Result(null, passage, null);
}

/**
 * 获取所有文章的总数
 *
 * @return
 * @throws NoSuchFieldException
 */

```



```

@GetMapping("/size")
public Result selectAllPassageSize(HttpServletRequest request) throws
NoSuchFieldException {
    //startPage要在sql查询的前面加才能生效
    PageHelper.startPage(1, 5);
    List<Passage> pagelist = passageService.selectIndexPassage();
    PageInfo<Passage> passagePageInfo = new PageInfo<>(pagelist);
    long size = passagePageInfo.getTotal();
    return new Result(null, size, null);
}

/**
 * 获取当前登录用户的文章总数
 * @param request
 * @return
 * @throws NoSuchFieldException
 */
@GetMapping("/my/size")
public Result selectMyPassageSize(HttpServletRequest request) throws
NoSuchFieldException {
    //startPage要在sql查询的前面加才能生效
    PageHelper.startPage(1, 5);
    int id = getIdFromRequest(request);
    List<Passage> pagelist = passageService.selectPassageByAuthorId(id);
    PageInfo<Passage> passagePageInfo = new PageInfo<>(pagelist);
    long size = passagePageInfo.getTotal();
    return new Result(null, size, null);
}

/**
 * 分页获取某个作者的所有文章
 *
 * @param page
 * @param size
 * @param request
 * @return
 * @throws NoSuchFieldException
 */
@GetMapping("/my/{page}/{size}")
public Result selectByAuthorId(@PathVariable Integer page, @PathVariable
Integer size, HttpServletRequest request) throws NoSuchFieldException {
    int id = getIdFromRequest(request);
    if (id == -1) {
        return new Result("请先登录", null, "error");
    }
}

```

```

        PageHelper.startPage(page, size);
        List<Passage> passageList = passageService.selectPassageByAuthorId(id);
        PageInfo<Passage> passagePageInfo = new PageInfo<>(passageList);
        List<Passage> list = passagePageInfo.getList();

        if (list == null || list.isEmpty()) {
            return new Result("empty", null, "error");
        }
        return Result.getResult(null, list, null, Passage.TablePassage.class);
    }

    /**
     * 删除某个文章
     *
     * @param passageId
     * @param request
     * @return
     */
    @DeleteMapping("/{passageId}")
    public Result deleteById(@PathVariable Integer passageId, HttpServletRequest
request) {
        int userId = getIdFromRequest(request);
        Passage passage = passageService.selectById(passageId);
        //判断前端要删除的文章是否存在
        if (passage == null) {
            return new Result("所要删除的文章不存在", null, "error");
        }
        //判断要求删除的用户是不是admin
        if (AuthorityUtil.isAdmin(request)) {
            passageService.deletePassage(passageId);
            return new Result(null, null, null);
        } else if (passage.getAuthorId() == userId) {
            //判断要求删除的用户是不是该文章的作者
            passageService.deletePassage(passageId);
            return new Result(null, null, null);
        } else {
            return new Result("无此权限", null, "error");
        }
    }

    /**
     * 更新某个文章的内容
     *
     * @param passage
     * @param request
     * @return
     */

```

```

    */
@PostMapping("/")
public Result update(@RequestBody Passage passage, HttpServletRequest request)
{
    int userId = getIdFromRequest(request);
    int passageId = passage.getId();
    Passage realPassage = passageService.selectById(passageId);
    //用户越权更新别人的文章
    if (realPassage.getAuthorId() != userId) {
        System.out.println(realPassage.getAuthorId());
        return new Result("无此权限", null, "error");
    } else {
        passageService.updatePassage(passage);
        return new Result(null, null, null);
    }
}

/**
 * 添加文章
 *
 * @param passage
 * @param request
 * @return
 */
@PostMapping("/add")
public Result add(@RequestBody Passage passage, HttpServletRequest request) {
    //从token中获取当前发布文章的作者
    int authorId = getIdFromRequest(request);
    int id = passageService.add(passage, authorId);

    return new Result(null, id, null);
}

@PostMapping("/like/{passageId}")
public Result increaseLikeNum(@PathVariable Integer passageId) {
    passageService.increaseLikeNum(passageId);
    return new Result(null, null, null);
}

@GetMapping("/about")
public Result getAbout() {
    return new Result(null, passageService.selectAbout(), null);
}

@PostMapping("/about")
public Result updateAbout(@RequestBody About about, HttpServletRequest request)

```

```

{
    if (!AuthorityUtil.isAdmin(request)) {
        return new Result("无此权限", null, "error");
    }
    passageService.updateAbout(about.getContent());
    return new Result(null, null, null);
}

/**
 * 从request获取用户id的工具方法，简化controller层的代码
 *
 * @param request
 * @return
 */
private int getIdFromRequest(HttpServletRequest request) {
    try {
        String token = request.getHeader("Authorization");
        String username = JwtUtil.getUsernameByToken(token);
        User user = userService.selectByUsername(username);
        return user.getId();
    } catch (Exception e) {
        return -1;
    }
}
}

```

参考资料

SpringBoot 官网, Vue 官方手册, elementUI 官方手册, CSDN