

博客系统

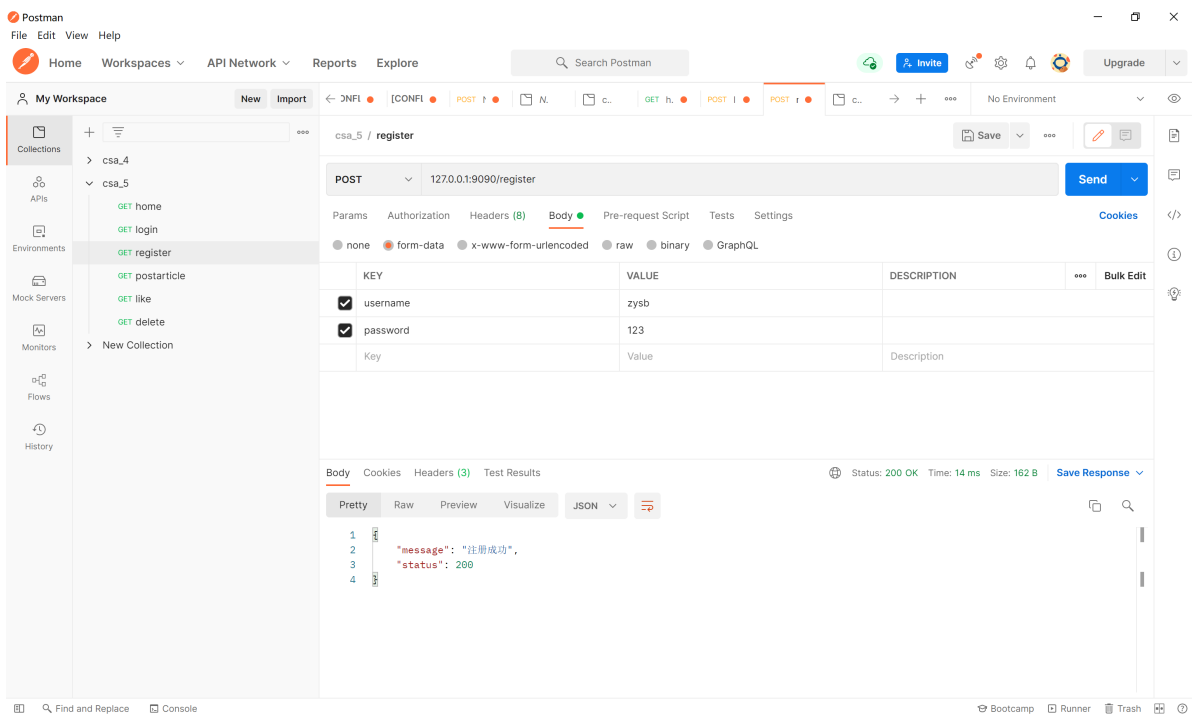
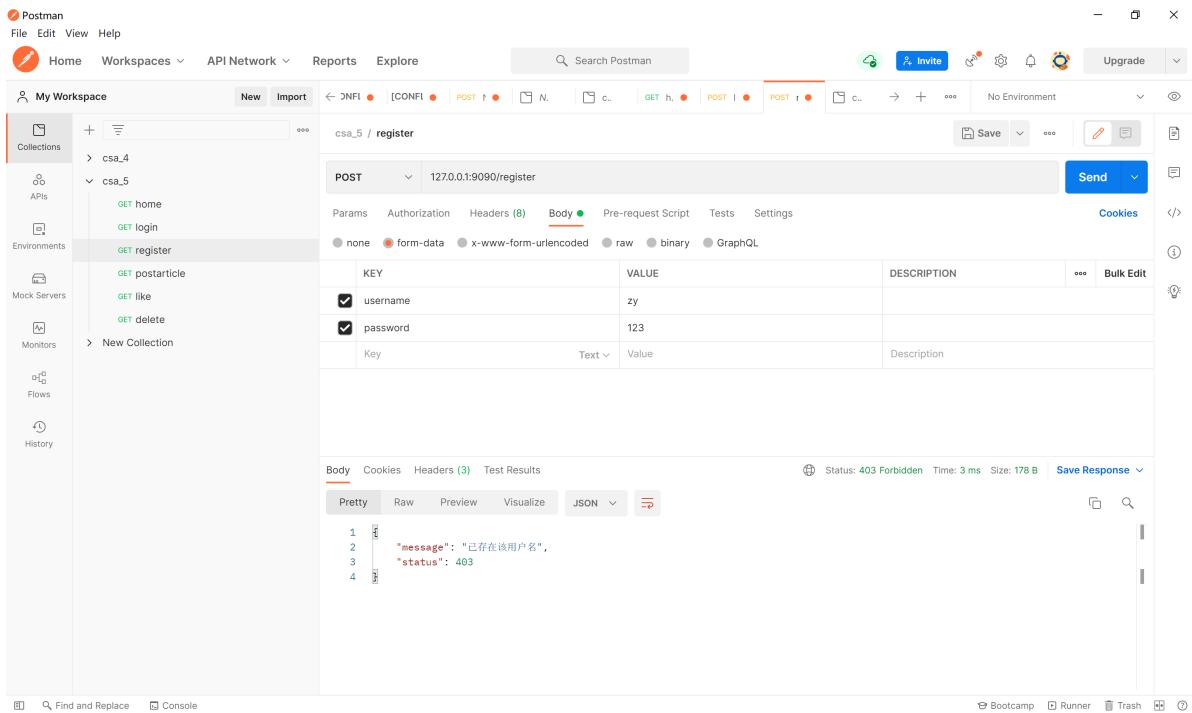
功能：主页、注册、登录、发表文章、为文章点赞、删除文章、留言、删除留言

1.注册 127.0.0.1:9090/register post请求

```
r.POST("/register", controller.Register)
```

```
//Register
//@title      Register()
//@description 注册请求
//@author     zy
//@param      c *gin.Context
//@return
func Register(c *gin.Context) {
    var u userinformation.UserInfo
    err := c.ShouldBind(&u)           //参数绑定
    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "code": 2001,
            "message": "无效的参数",
        })
        return
    }

    //判断用户名是否已经存在
    if common.QueryUserInfo(u) {
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "已存在该用户名",
        })
        return
    } else {
        if common.InsertUserInfo(u){
            c.JSON(http.StatusOK, gin.H{
                "status": http.StatusOK,
                "message": "注册成功",
            })
            return
        } else {
            c.JSON(http.StatusInternalServerError, gin.H{
                "status": http.StatusInternalServerError,
                "message": "some errors in sql",
            })
        }
    }
}
```



2.登录 127.0.0.1:9090/login post请求

```
r.POST("/login", controller.Login)
```

```
//Login
//@title      Login()
//@description 登录请求
//@author      zy
//@param       c *gin.Context
//@return

func Login(c *gin.Context) {
    var u userinformation.UserInfo
    err := c.ShouldBind(&u)           //参数绑定
    if err != nil {
```

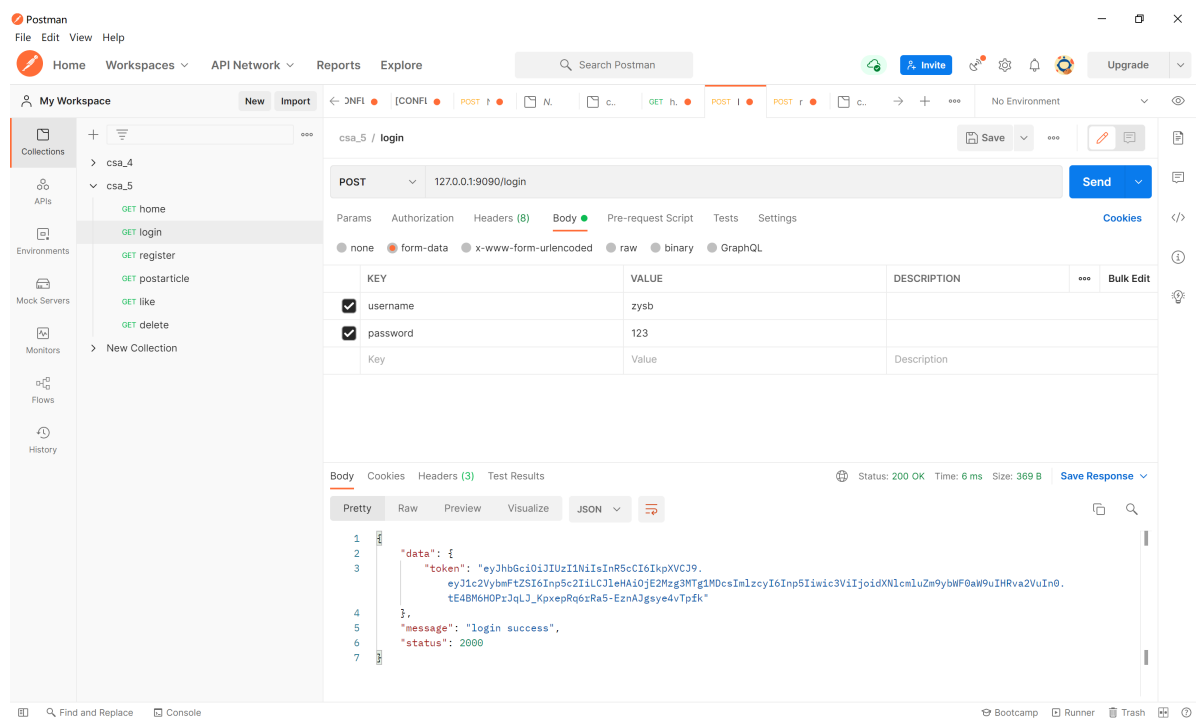
```
c.JSON(http.StatusOK, gin.H{
    "status": 2001,
    "message": "无效的参数",
})
return
}

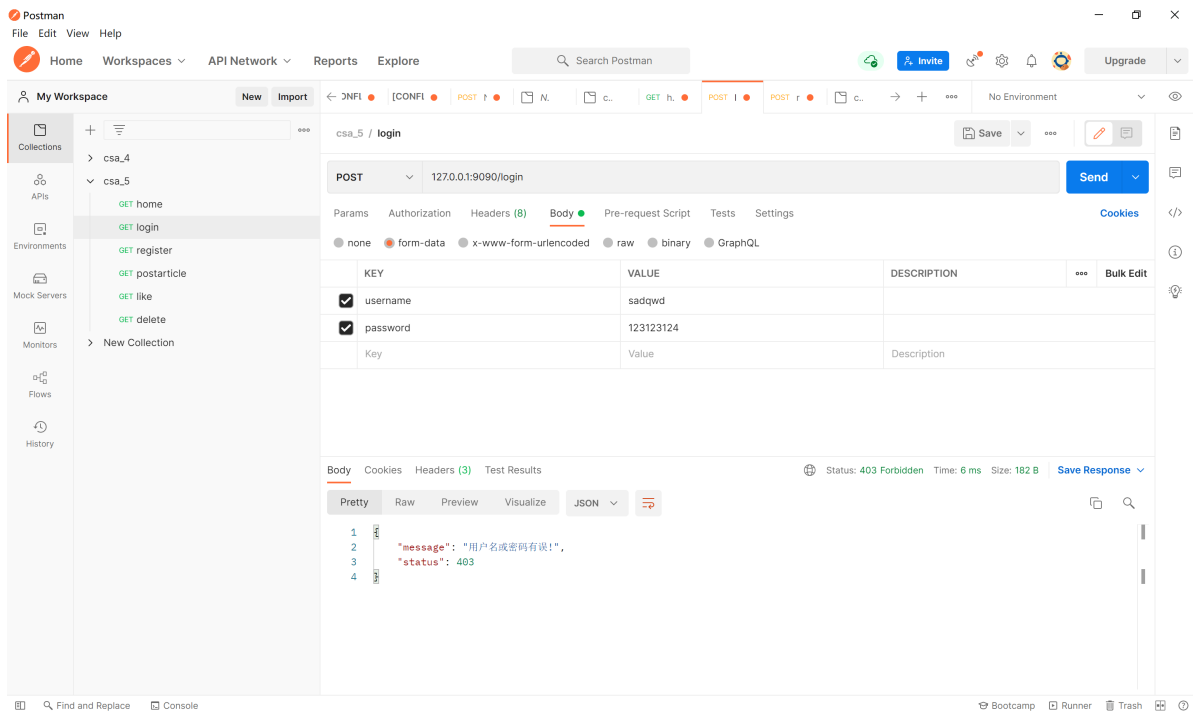
// 判断用户名密码是否正确
if !common.QueryUserInfoExist(u) {
    c.JSON(http.StatusForbidden, gin.H{
        "status": http.StatusForbidden,
        "message": "用户名或密码有误!",
    })
    return
}

// 生成username对应的tokenString
tokenString, err := common.GenToken(u.Username)
if err != nil {
    c.JSON(http.StatusInternalServerError, gin.H{
        "status": http.StatusInternalServerError,
        "message": "系统异常",
    })
    return
}

c.JSON(http.StatusOK, gin.H{
    "status": 2000,
    "message": "login success",
    "data": gin.H{"token": tokenString},
})
```

测试图：





3.发表文章 127.0.0.1:9090/postArticle post请求

```
r.POST("/postArticle", middleware.JWTAuthMiddleware(), controller.PostArticle)
```

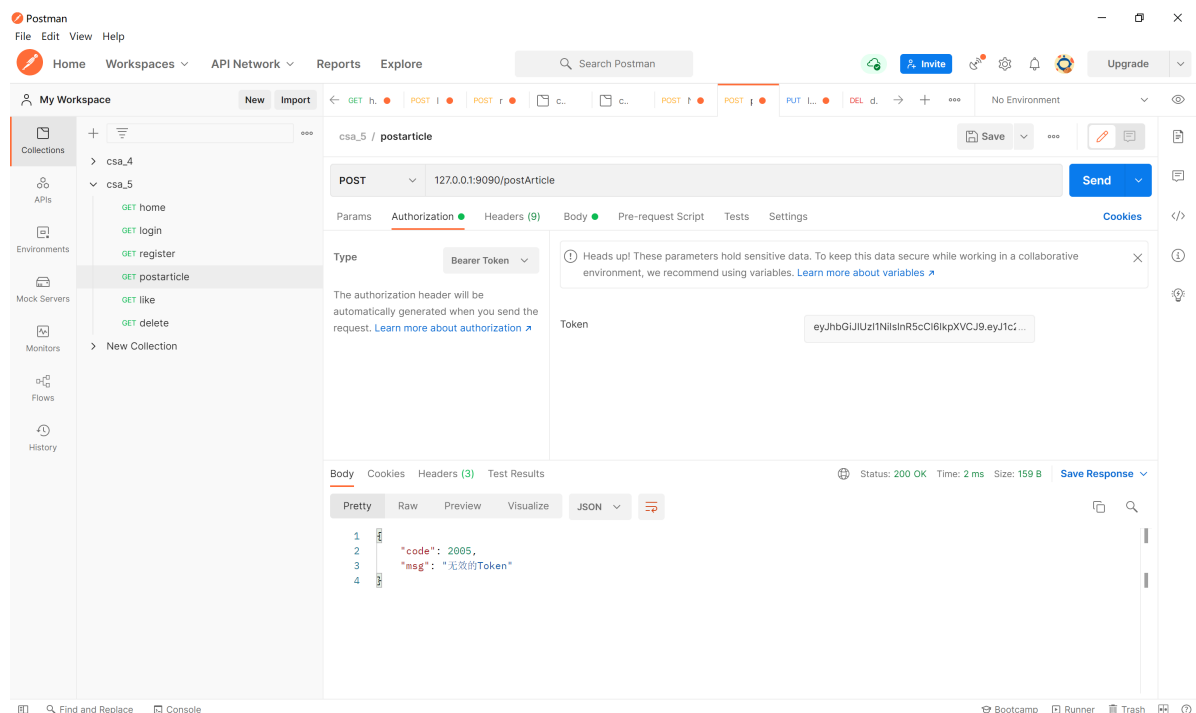
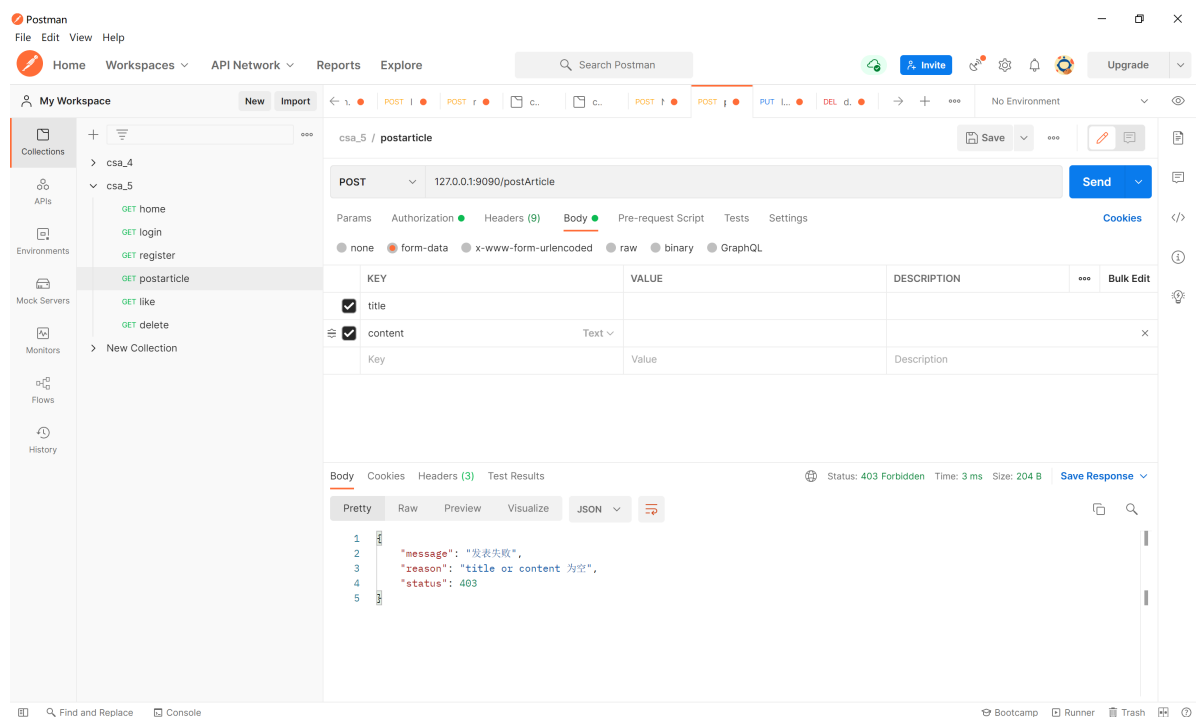
```
//PostArticle
//@title      PostArticle()
//@description 发布文章请求
//@author     zy
//@param      c *gin.Context
//@return
func PostArticle(c *gin.Context) {
    var ArticleInfo userinformation.Article
    username, _ := c.Get("username") //获取当前登录的username
    ArticleInfo.Username = username.(string)
    err := c.ShouldBind(&ArticleInfo) //参数绑定

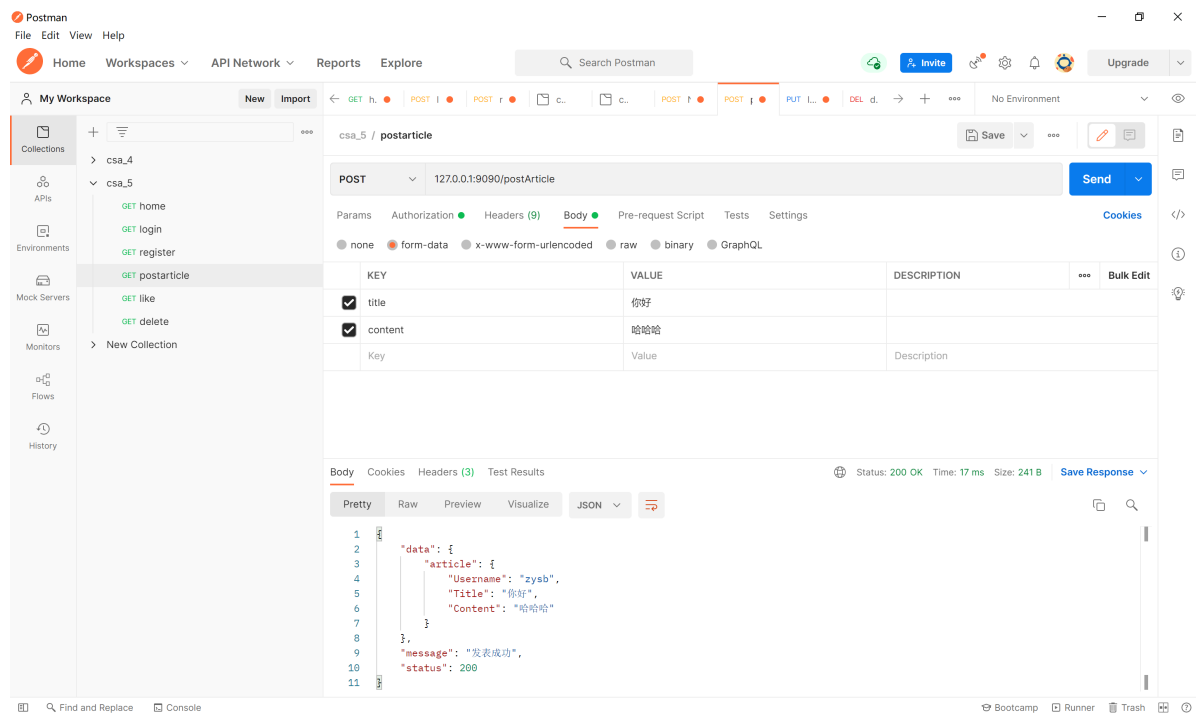
    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "status": 2001,
            "message": "无效的参数",
        })
        return
    }

    //不能发布空的文章
    if ArticleInfo.Content == "" || ArticleInfo.Title == ""{ //内容或标题为空 提示错误
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "发表失败",
            "reason": "title or content 为空",
        })
        return
    }
}
```

```
// 是否成功发表文章
if common.InsertArticle(ArticleInfo) {
    c.JSON(http.StatusOK, gin.H{
        "status": 200,
        "message": "发表成功",
        "data": gin.H{"article": ArticleInfo},
    })
} else {
    c.JSON(http.StatusBadRequest, gin.H{
        "status": http.StatusBadRequest,
        "message": "发表失败!",
    })
}
}
```

测试图：





4.为文章点赞 127.0.0.1:9090/like put请求

```
r.PUT("/like", middleware.JWTAuthMiddleware(), controller.Like)
```

```
//Like
//@title      Like()
//@description 点赞文章请求
//@author     zy
//@param      c *gin.Context
//@return
func Like(c *gin.Context) {
    var ArticleInfo userinformation.Article
    username, _ := c.Get("username") //username为当前用户id
    err := c.ShouldBind(&ArticleInfo)

    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "status": 2001,
            "message": "无效的参数",
        })
        return
    }

    if username == ArticleInfo.Username {
        c.JSON(http.StatusOK, gin.H{
            "status": http.StatusOK,
            "message": "你不能给自己点赞!",
        })
        return
    }

    n := common.LikeArticle(ArticleInfo)
    if n == 1 {
        c.JSON(http.StatusInternalServerError, gin.H{
            "status": http.StatusInternalServerError,
```

```

        "message": "Some errors in sql",
    })
    return
} else if n == 2 {
    c.JSON(http.StatusForbidden, gin.H{
        "status": http.StatusForbidden,
        "message": "点赞失败，没有相应的文章",
    })
    return
} else {
    c.JSON(http.StatusOK, gin.H{
        "status": http.StatusOK,
        "message": "给" + ArticleInfo.Username + "点赞成功!",
    })
}
}
}

```

测试图：

The screenshot shows the Postman interface with a PUT request to `127.0.0.1:9090/like`. The request body is set to form-data with the following fields:

KEY	VALUE	DESCRIPTION
username	zy	
title	hello go	

The response is shown in the 'Body' tab, displaying a JSON object:

```

{
  "message": "给zy点赞成功!",
  "status": 200
}

```

The status bar indicates a successful response with Status: 200 OK, Time: 14 ms, and Size: 170 B.

Postman

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csa_5 / like

PUT 127.0.0.1:9090/like

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> username	zysb		
<input checked="" type="checkbox"/> title	你好		
Key	Value	Description	

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 3 ms Size: 177 B Save Response

Pretty Raw Preview Visualize JSON

```
1 200
2 {"message": "你不能给自己点赞!",
3  "status": 200
4 }
```

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Bootcamp Runner Trash

Postman

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csa_5 / like

PUT 127.0.0.1:9090/like

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION	Bulk Edit
<input checked="" type="checkbox"/> username	zysbb		
<input checked="" type="checkbox"/> title	Text 你好		x
Key	Value	Description	

Body Cookies Headers (3) Test Results

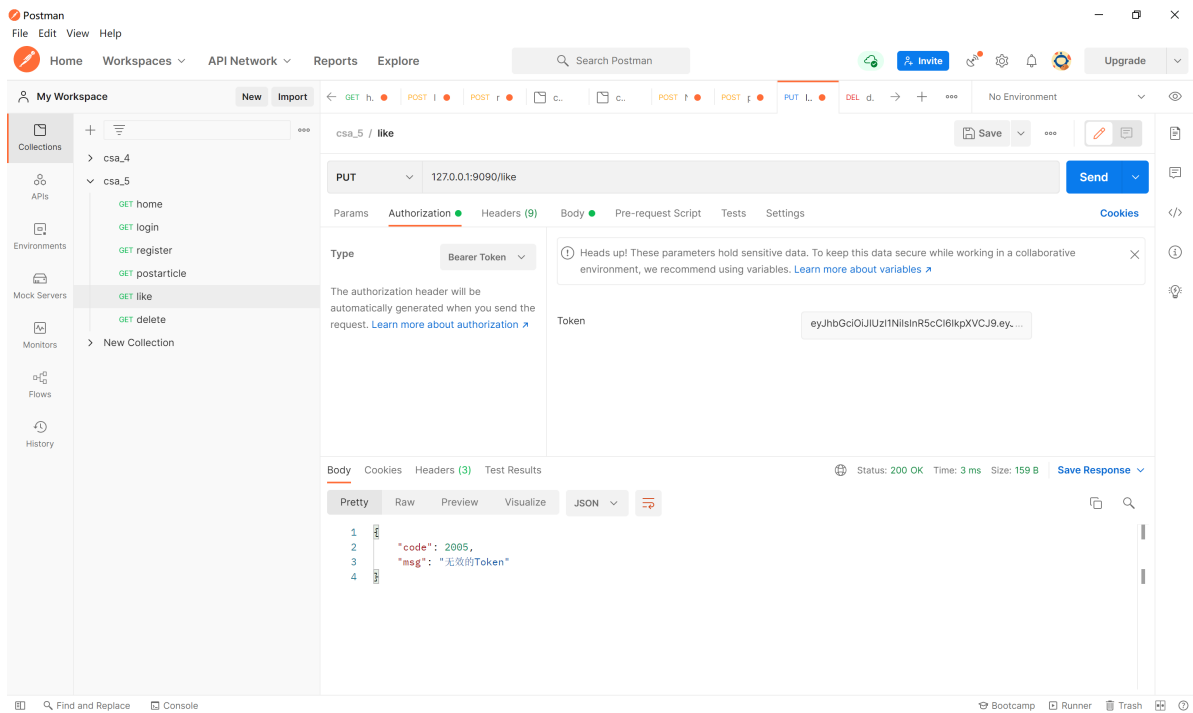
Status: 403 Forbidden Time: 3 ms Size: 193 B Save Response

Pretty Raw Preview Visualize JSON

```
1 403
2 {"message": "点赞失败, 没有相应的文章",
3  "status": 403
4 }
```

Find and Replace Console

Bootcamp Runner Trash



5.删除文章 127.0.0.1:9090/deleteArticle delete请求

```
r.DELETE("/deleteArticle", middleware.JWTAuthMiddleware(), controller.Delete)
```

```
//Delete
//@title      Delete()
//@description 删除文章请求
//@author     zy
//@param      c *gin.Context
//@return
func Delete(c *gin.Context) {
    var ArticleInfo userinformation.Article
    username, _ := c.Get("username") //获取当前登录的username
    err := c.ShouldBind(&ArticleInfo) //参数绑定

    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "status": 2001,
            "message": "无效的参数",
        })
        return
    }

    if username != ArticleInfo.Username {
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "你没有权限删除别人的文章",
        })
        return
    }
    if common.DeleteArticle(ArticleInfo) {
        c.JSON(http.StatusOK, gin.H{
            "status": http.StatusOK,
            "message": "删除成功",
        })
    }
}
```

```

    })
  } else {
    c.JSON(http.StatusForbidden, gin.H{
      "status": http.StatusForbidden,
      "message": "删除失败",
    })
  }
}
}

```

测试图：

Postman interface showing a DELETE request to `127.0.0.1:9090/deleteArticle`. The request body is form-data with the following parameters:

KEY	VALUE	DESCRIPTION
username	zysb	
title	你好	

The response is a JSON object:

```

{
  "message": "删除成功",
  "status": 200
}

```

Postman interface showing the same DELETE request, but the **Authorization** tab is selected. The authorization type is **Bearer Token** with the token value:

```

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1

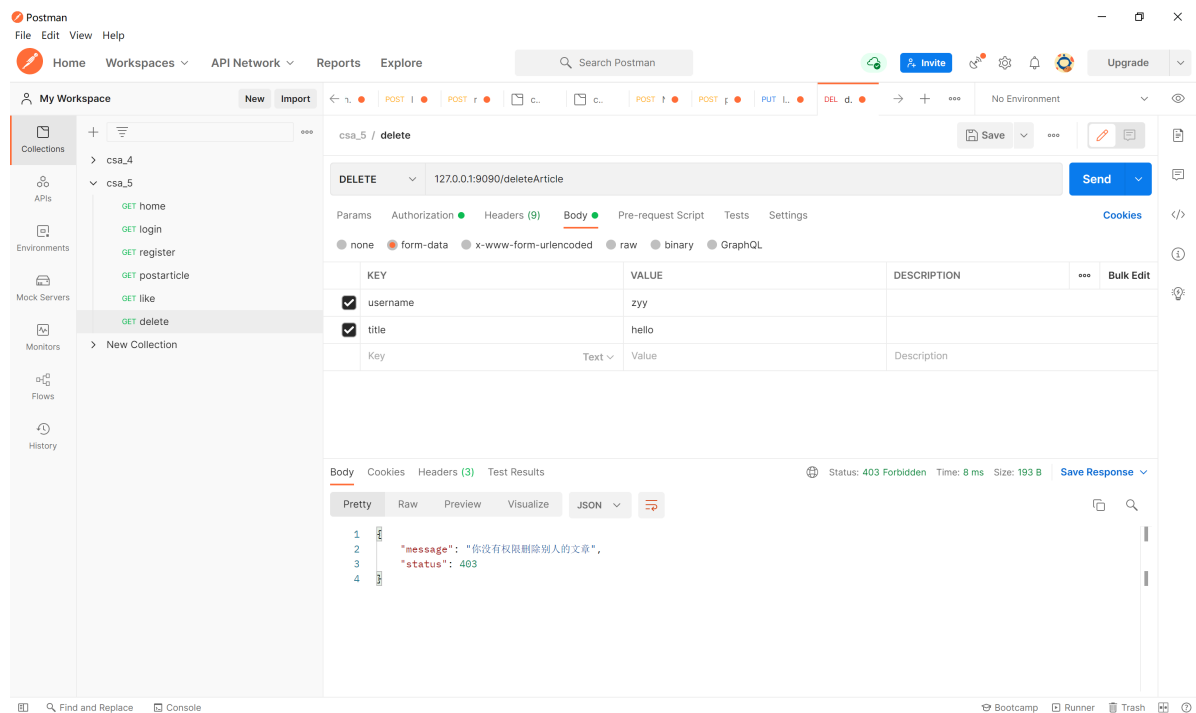
```

The response is a JSON object:

```

{
  "code": 2005,
  "msg": "无效的Token"
}

```



6.留言 127.0.0.1:9090/message post请求

```
r.POST("/message", middleware.JWTAuthMiddleware(), controller.MessageToOther)
```

```
//MessageToOther
//@title      MessageToOther()
//@description 给其他用户留言请求
//@author      zy
//@param       c *gin.Context
//@return
func MessageToOther(c *gin.Context) {
    var MsgTo userinformation.Msg
    username, _ := c.Get("username") //username为当前用户id
    err := c.ShouldBind(&MsgTo)
    MsgTo.Username = username.(string)
    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "status": 2001,
            "message": "无效的参数",
        })
        return
    }

    if MsgTo.OtherUsername == "" || MsgTo.Message == "" {
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "留言失败",
            "reason": "目标username或留言内容为空",
        })
        return
    }

    if common.MessageInsert(MsgTo) {
        c.JSON(http.StatusOK, gin.H{
```

```

        "status": 200,
        "message": "留言成功",
        "data": gin.H{"article": MsgTo},
    })
    return
} else {
    c.JSON(http.StatusBadRequest, gin.H{
        "status": http.StatusBadRequest,
        "message": "留言失败! ",
    })
}
}
}

```

测试图：

Postman interface showing a successful POST request to `127.0.0.1:9090/message`. The request body is a JSON object with `otherusername` (zy) and `message` (你好). The response status is 200 OK, and the response body is a JSON object with `data` (article: {username: "zyzb", otherusername: "zy", message: "你好"}) and `message` (留言成功), `status` (200).

Postman interface showing a failed POST request to `127.0.0.1:9090/message`. The request body is a JSON object with `otherusername` (zyuuu) and `message` (你好). The response status is 400 Bad Request, and the response body is a JSON object with `message` (留言失败!) and `status` (400).

7.删除留言 127.0.0.1:9090/deleteMessage delete请求

```
r.DELETE("/deleteMessage", middleware.JWTAuthMiddleware(), controller.DeleteMsg)
```

```
//DeleteMsg
//@title      DeleteMsg()
//@description 删除留言请求
//@author      zy
//@param       c *gin.Context
//@return
func DeleteMsg(c *gin.Context) {
    var MsgTo userinformation.Msg
    username, _ := c.Get("username") //username为当前用户id
    err := c.ShouldBind(&MsgTo)
    MsgTo.Username = username.(string)
    if err != nil {
        c.JSON(http.StatusOK, gin.H{
            "status": 2001,
            "message": "无效的参数",
        })
        return
    }

    if MsgTo.OtherUsername == "" || MsgTo.Message == "" {
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "删除留言失败",
            "reason": "目标username或留言内容为空",
        })
        return
    }

    if !common.MessageDelete(MsgTo) {
        c.JSON(http.StatusForbidden, gin.H{
            "status": http.StatusForbidden,
            "message": "some errors in sql",
        })
        return
    }

    c.JSON(http.StatusOK, gin.H{
        "status": http.StatusOK,
        "message": "删除留言成功",
    })
}
```

测试图:

Postman

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csa_5 / deletemessage

DELETE 127.0.0.1:9090/deletemessage

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> otherusername	zy	
<input checked="" type="checkbox"/> message	你好	
Key	Value	Description

Body Cookies Headers (3) Test Results

Status: 403 Forbidden Time: 9 ms Size: 175 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "message": "some errors in sql",
3    "status": 403
4  }
```

Postman

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csa_5 / deletemessage

DELETE 127.0.0.1:9090/deletemessage

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

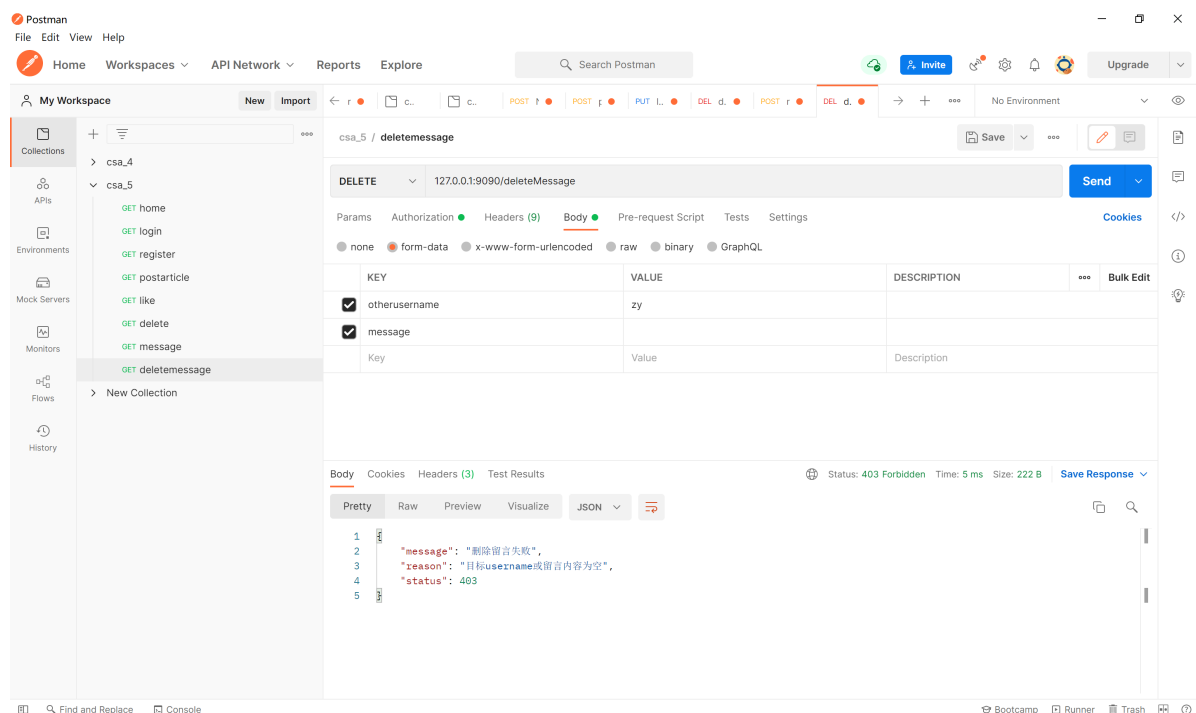
KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> otherusername	zy	
<input checked="" type="checkbox"/> message	你好	
Key	Value	Description

Body Cookies Headers (3) Test Results

Status: 200 OK Time: 54 ms Size: 168 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "message": "删除留言成功",
3    "status": 200
4  }
```



数据库相关操作

```
//@Title      db.go
//@Description 数据库相关操作
//@Author      zy
//@Update      2021.12.5
```

```
package common
```

```
import (
    "csa_5/userinformation"
    "database/sql"
    "fmt"
    _ "github.com/go-sql-driver/mysql"
)
```

```
// DB 定义一个全局变量
```

```
var DB *sql.DB
```

```
//InitDB
```

```
//@title      InitDB()
```

```
//@description 连接数据库
```

```
//@author      zy
```

```
//@param      dsn string
```

```
//@return      *sql.DB error
```

```
func InitDB(dsn string) (*sql.DB, error) {
    var err error
    DB, err = sql.Open("mysql", dsn)
    if err != nil {
        fmt.Printf("failed to open database, err:%v", err)
        return nil, err
    }
    err = DB.Ping()
}
```

```

    if err != nil {
        fmt.Printf("failed to connect database, err: %v", err)
        return nil, err
    }
    return DB, err
}

//QueryUserInfo
//@title      QueryUserInfo()
//@description 查询用户名u.Username是否已经存在
//@author     zy
//@param      u userinformation.UserInfo
//@return     bool
func QueryUserInfo(u userinformation.UserInfo) bool {
    sqlStr := "select username from user where username=?" //sql语句
    var UTemp userinformation.UserInfo
    err := DB.QueryRow(sqlStr, u.Username).Scan(&UTemp.Username) //调用QueryRow
    进行插入
    if err != nil {
        fmt.Printf("用户名%s还未注册\n", u.Username)
        return false
    }
    fmt.Printf("用户:%s你好\n", UTemp.Username)
    return true
}

//QueryUserInfoExist
//@title      QueryUserInfoExist()
//@description 查询用户名和密码是否正确
//@author     zy
//@param      u userinformation.UserInfo
//@return     bool
func QueryUserInfoExist(u userinformation.UserInfo) bool {
    sqlStr := "select username, password from user where username=? and
password=?" //sql语句
    var UTemp userinformation.UserInfo

    err := DB.QueryRow(sqlStr, u.Username, u.Password).Scan(&UTemp.Username,
&UTemp.Password) //调用QueryRow进行插入

    if err != nil {
        fmt.Printf("scan failed, err:%v\n", err)
        return false
    }
    fmt.Printf("用户:%s你好\n", UTemp.Username)
    return true
}

//InsertUserInfo
//@title      InsertUserInfo()
//@description 注册成功时插入到user表中
//@author     zy
//@param      u userinformation.UserInfo
//@return     bool
func InsertUserInfo(u userinformation.UserInfo) bool{
    sqlStr := "insert into user(username, password) values (?,?)" //sql语句
    ret, err := DB.Exec(sqlStr, u.Username, u.Password) //插入操作

```



```

    if err != nil {
        fmt.Printf("insert failed, err:%v", err)
        return false
    }
    id, err := ret.LastInsertId()
    if err != nil {
        fmt.Printf("get lastinsert ID failed, err: %v\n", err)
        return false
    }
    fmt.Printf("insert success, the id is %d.\n", id)
    return true
}

//InsertArticle
//@title      InsertArticle()
//@description 成功发表文章时插入到blog表中
//@author      zy
//@param       uArticle userinformation.Article
//@return      bool
func InsertArticle(uArticle userinformation.Article) bool{
    sqlStr := "insert into blog(username, title, content) values (?, ?, ?)"
    //sql语句
    ret, err := DB.Exec(sqlStr, uArticle.Username, uArticle.Title,
uArticle.Content)    //sql操作
    if err != nil {
        fmt.Printf("insert failed, err:%v\n", err)
        return false
    }
    id, err := ret.LastInsertId()
    if err != nil {
        fmt.Printf("get lastinsert ID failed, err: %v\n", err)
        return false
    }
    fmt.Printf("insert success, the id is %d.\n", id)
    return true
}

//DeleteArticle
//@title      DeleteArticle()
//@description 成功删除文章时将blog表中对用的数据删除
//@author      zy
//@param       uArticle userinformation.Article
//@return      bool
func DeleteArticle(uArticle userinformation.Article) bool{
    sqlStr := "delete from blog where username=? and title=?"    //sql语句
    ret, err := DB.Exec(sqlStr, uArticle.Username, uArticle.Title)    //sql操作
    if err != nil {
        fmt.Printf("delete fail, err: %v\n", err)
        return false
    }
    n, err := ret.RowsAffected()
    if err != nil {
        fmt.Printf("affect fail, err: %v\n", err)
        return false
    }
    fmt.Printf("delete success, delete %d article which title is %s", n,
uArticle.Title)
    return true
}

```

```

}

//LikeArticle
//@title      LikeArticle()
//@description 点赞别人的文章
//@author      zy
//@param       uArticle userinformation.Article
//@return      bool
func LikeArticle(uArticle userinformation.Article) int{
    sqlStr := "update blog set favor=favor+1 where username=? and title = ?"
    //sql语句
    ret, err := DB.Exec(sqlStr, uArticle.Username, uArticle.Title)
    //更新对应的值--favor++
    if err != nil {
        //存在错误 提示用户
        fmt.Printf("failed to update, err:%v", err)
        return 1
    }
    n, err1 := ret.RowsAffected()
    //判断更新了儿行相应的值 即判断username和title是否存在
    if err1 != nil {
        fmt.Printf("failed to affect, err:%v", err)
        return 1
    }
    if n == 0 {
        //没有相应的博客
        fmt.Printf("faied to like because %s doesn't write %s , err:%v",
uArticle.Username, uArticle.Title, err)
        return 2
    }

    fmt.Printf("success like")
    return 3
}

//MessageInsert
//@title      MessageInsert()
//@description 留言成功时插入msg表
//@author      zy
//@param       Msg userinformation.Msg
//@return      bool
func MessageInsert(Msg userinformation.Msg) bool{
    // 判断是否有Msg.OtherUsername 这个用户
    if !QueryUserInfo(userinformation.UserInfo{Username: Msg.OtherUsername}) {
        fmt.Printf("没有这个用户")
        return false
    }
    sqlStr := "insert into msg(username, otherusername, message) values (?, ?, ?)"
    //sql语句
    ret, err := DB.Exec(sqlStr, Msg.Username, Msg.OtherUsername, Msg.Message)
    //插入操作
    if err != nil {
        fmt.Printf("insert failed, err:%v", err)
        return false
    }
    id, err := ret.LastInsertId()
    if err != nil {
        fmt.Printf("get lastinsert ID failed, err: %v\n", err)
    }
}

```

```

        return false
    }
    fmt.Printf("insert success, the id is %d.\n", id)
    return true
}

//MessageDelete
//@title      MessageDelete()
//@description 删除留言
//@author      zy
//@param      Msg userinformation.Msg
//@return      bool
func MessageDelete(Msg userinformation.Msg) bool {
    sqlStr := "delete from msg where username=? and otherusername=? and
message=?" //sql语句
    ret, err := DB.Exec(sqlStr, Msg.Username, Msg.OtherUsername, Msg.Message)
    //sql操作
    if err != nil {
        fmt.Printf("delete fail, err: %v\n", err)
        return false
    }
    n, err := ret.RowsAffected()
    if err != nil {
        fmt.Printf("affect fail, err: %v\n", err)
        return false
    }
    fmt.Printf("delete success, delete %d message which username is %s and
otherusername is %s and message is %s\n", n, Msg.Username, Msg.OtherUsername,
Msg.Message)
    return true
}

```

JWT鉴权及中间件

```

//@Title      jwt.go
//@Description jwt鉴权
//@Author      zy
//@Update      2021.12.5

package common

import (
    "errors"
    "github.com/dgrijalva/jwt-go"
    "time"
)

// MyClaims 结构体
type MyClaims struct {
    Username string `json:"username"`
    jwt.StandardClaims
}

```

```

// JWT过期时间
const TokenExpireDuration = time.Hour * 2

// Secret签名
var MySecret = []byte("zyaichirou")

//GenToken
//@title      GenToken()
//@description 生成JWT
//@author      zy
//@param       username string
//@return      string error
func GenToken(username string) (string, error) {
    c := MyClaims{
        username,
        jwt.StandardClaims{
            ExpiresAt: time.Now().Add(TokenExpireDuration).Unix(), //过期时间
            Issuer: "zy", //签发人
            Subject: "userinformation token", //签发主题
        },
    }

    // 使用指定的签名方法创建签名对象
    token := jwt.NewWithClaims(jwt.SigningMethodHS256, c)
    // 使用指定的secret签名
    tokenString, err := token.SignedString(MySecret)
    if err != nil {
        return "", err
    }

    return tokenString, err
}

//ParseToken
//@title      ParseToken()
//@description 解析JWT
//@author      zy
//@param       tokenString string
//@return      *MyClaims error
func ParseToken(tokenString string) (*MyClaims, error) {
    //解析token
    token, err := jwt.ParseWithClaims(tokenString, &MyClaims{}, func(token
    *jwt.Token) (interface{}, error) {
        return MySecret, nil
    })

    if err != nil {
        return nil, err
    }
    if claims, ok := token.Claims.(*MyClaims); ok && token.Valid {
        return claims, nil
    } //校验token
    return nil, errors.New("invalid token")
}

```

```

//@Title      AuthMiddleware.go
//@Description jwt鉴权中间件实现

```

```

//@Author      zy
//@Update      2021.12.5

package middleware

import (
    "csa_5/common"
    "csa_5/userinformation"
    "github.com/gin-gonic/gin"
    "net/http"
    "strings"
)

//JWTAuthMiddleware
//@title      JWTAuthMiddleware()
//@description JWT鉴权中间件
//@author      zy
//@param
//@return      gin.HandlerFunc
func JWTAuthMiddleware() gin.HandlerFunc {
    return func(c *gin.Context) {
        authHeader := c.Request.Header.Get("Authorization") //获取Header的
        Authorization
        if authHeader == "" {
            c.JSON(http.StatusOK, gin.H{
                "code": 2003,
                "msg": "请求头中auth为空",
            })
            c.Abort()
            return
        }

        // 按空格分割
        parts := strings.SplitN(authHeader, " ", 2)
        if !(len(parts) == 2 && parts[0] == "Bearer") {
            c.JSON(http.StatusOK, gin.H{
                "code": 2004,
                "msg": "请求头中auth格式有误",
            })
            c.Abort()
            return
        }
        // parts[1]是获取到的tokenString, 使用之前解析JWT函数来解析
        mc, err := common.ParseToken(parts[1])
        if err != nil {
            c.JSON(http.StatusOK, gin.H{
                "code": 2005,
                "msg": "无效的Token",
            })
            c.Abort()
            return
        }

        // 在数据库中验证mc中的Username
        // 若不存在则返回
        var u userinformation.UserInfo
    }
}

```

```
u.Username = mc.Username
if !common.QueryUserInfo(u) {
    c.JSON(http.StatusUnprocessableEntity, gin.H{
        "status": 401,
        "message": "权限不足",
    })
    c.Abort()
    return
}

//用户存在 将user信息写入请求的上下文c中
c.Set("username", mc.Username)
c.Next() // 后续的处理函数可以用过c.Get("username")来获取当前请求的用户信息
}
```