

1, 代码记录

按照大明老师的提示, 在ginx的handler_func里写全函数:

```
func WrapReq[T any](fn func(ctx *gin.Context, req T, uc jwt.UserClaims) (Result, error), l logger.LoggerV1, method string) gin.HandlerFunc {
    return func(ctx *gin.Context) {
        // 顺便把 userClaims 也取出来
        var req T
        var uc jwt.UserClaims
        if err := ctx.Bind(&req); err != nil {
            return
        }
        res, err := fn(ctx, req, uc)
        if err != nil {
            l.Error(method, logger.Field{
                Key:   "error",
                Value: err.Error(),
            }, logger.Field{
                Key:   "response",
                Value: res,
            })
        }
    }
}

type Result struct {
    // 这个叫做业务错误码
    Code int    `json:"code"`
    Msg  string `json:"msg"`
    Data any     `json:"data"`
}
```

在里面Bind req, 同时回调业务函数, 如果fn返回有错, 则用传进来的logger打印出来。

user.go里调用, 这里主要改的是SendLoginSMSCodeV1函数

```
func (u *UserHandler) SendLoginSMSCodeV1(ctx *gin.Context) {
    type Req struct {
        Phone string `json:"phone"`
    }

    fn := func(ctx *gin.Context, req Req, uc jwt.UserClaims) (ginx.Result, error) {
        if req.Phone == "" {
            return ginx.Result{
                Code: 4,
                Msg:  "输入错误",
            }, errors.New("输入错误")
        }

        err := u.codeSvc.Send(ctx, biz, req.Phone)
        switch err {
```

```

case nil:
    return ginx.Result{
        Code: 0,
        Msg: "发送成功",
    }, nil
case service.ErrCodeSendTooMany:
    return ginx.Result{
        Code: 5,
        Msg: "发送太频繁，请稍后再试",
    }, errors.New("发送太频繁，请稍后再试")
default:
    return ginx.Result{
        Code: 4,
        Msg: "系统错误",
    }, errors.New("系统错误")
}
}

ginx.WrapReq[Req](fn, u.l, "SendLoginSMSCodeV1")(ctx)
}

```

同时在UserHandler里传入一个logger。

```

type UserHandler struct {
    svc          service.UserService
    codeSvc      service.CodeService
    emailExp     *regexp.Regexp
    passwordExp  *regexp.Regexp
    ijwt.Handler
    cmd redis.Cmdable
    l      logger.LoggerV1
}

func NewUserHandler(svc service.UserService,
    codeSvc service.CodeService, jwtHdl ijwt.Handler, l logger.LoggerV1) *UserHandler {
    const (
        emailRegexPattern = "^\\w+([-+.]\\w+)*@\\w+([-+.]\\w+)*\\.\\w+([-+.]\\w+)*$"
        passwordRegexPattern = `^(?=.*[A-Za-z])(?=.*\d)(?=.*[$@#!%*#?&])[A-Za-z\d$@#!%*#?&]{8,}$`
    )
    emailExp := regexp.MustCompile(emailRegexPattern, regexp.None)
    passwordExp := regexp.MustCompile(passwordRegexPattern, regexp.None)
    return &UserHandler{
        svc:          svc,
        emailExp:     emailExp,
        passwordExp: passwordExp,
        codeSvc:      codeSvc,
        Handler:      jwtHdl,
        l:            l,
    }
}

```

重新生成wire_gen.go后运行。

2, 测试

程序跑起来后发一个Send SMS请求，可以看到打出来一个ERROR信息，记录了发生错误的函数名称，和返回的Error和response。

[GIN-debug] Listening and serving HTTP on :8077

[791007]

[791007]

[791007]

2023-10-17T18:04:30.983+0800 ERROR logger/zap_logger.go:28 SendLoginSMSCodeV1 {"error": "系统错误", "response": {"code":4,"msg":"系统错误","data":null}}

[github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/logger.\(*ZapLogger\).Error](https://github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/logger.(*ZapLogger).Error)

C:/Work/IT/GO/src/github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/logger/zap_logger.go:28

[github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx.WrapReq\[...\].func1](https://github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx.WrapReq[...].func1)

C:/Work/IT/GO/src/github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx/handler_func.go:19

[github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/internal/web.\(*UserHandler\).SendLoginSMSCodeV1](https://github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/internal/web.(*UserHandler).SendLoginSMSCodeV1)

C:/Work/IT/GO/src/github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/internal/web/user.go:263

[github.com/gin-gonic/gin.\(*Context\).Next](https://github.com/gin-gonic/gin.(*Context).Next)

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/context.go:174

[github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx/middlewares/logger.\(*MiddlewareBuilder\).Build.func1](https://github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx/middlewares/logger.(*MiddlewareBuilder).Build.func1)

C:/Work/IT/GO/src/github.com/bolognagene/geektime-gocamp/geektime-gocamp/webbook/webbook/pkg/ginx/middlewares/logger/builder.go:81

[github.com/gin-gonic/gin.\(*Context\).Next](https://github.com/gin-gonic/gin.(*Context).Next)

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/context.go:174

github.com/gin-gonic/gin.CustomRecoveryWithWriter.func1

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/recovery.go:102

[github.com/gin-gonic/gin.\(*Context\).Next](https://github.com/gin-gonic/gin.(*Context).Next)

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/context.go:174

github.com/gin-gonic/gin.LoggerWithConfig.func1

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/logger.go:240

[github.com/gin-gonic/gin.\(*Context\).Next](https://github.com/gin-gonic/gin.(*Context).Next)

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/context.go:174

[github.com/gin-gonic/gin.\(*Engine\).handleHTTPRequest](https://github.com/gin-gonic/gin.(*Engine).handleHTTPRequest)

C:/Work/IT/GO/pkg/mod/github.com/gin-gonic/gin@v1.9.1/gin.go:620

net/http.serverHandler.ServeHTTP

C:/Software/Real/GO/src/net/http/server.go:2936

net/http.(*conn).serve

C:/Software/Real/GO/src/net/http/server.go:2936

net/http.(*conn).serve

C:/Software/Real/GO/src/net/http/server.go:1995

2023-10-17T18:04:31.018+0800 DEBUG logger/zap_logger.go:16 HTTP请求 {"al": {"Method":"POST","Url":"/users/login_sms/code/send","Durat

C:/Software/Real/GO/src/net/http/server.go:1995

2023-10-17T18:04:31.018+0800 DEBUG logger/zap_logger.go:16 HTTP请求 {"al":

```
{"Method":"POST","Url":"/users/login_sms/code/send","Durat  
ion":"1m2.0894352s","ReqBody":{"\r\n "phone": "15817211905"\r\n},"RespBody":"","Status":0}}  
[GIN] 2023/10/17 - 18:04:31 | 200 | 1m2s | ::1 | POST "/users/login_sms/code/send"
```

Debugger finished with the exit code 0