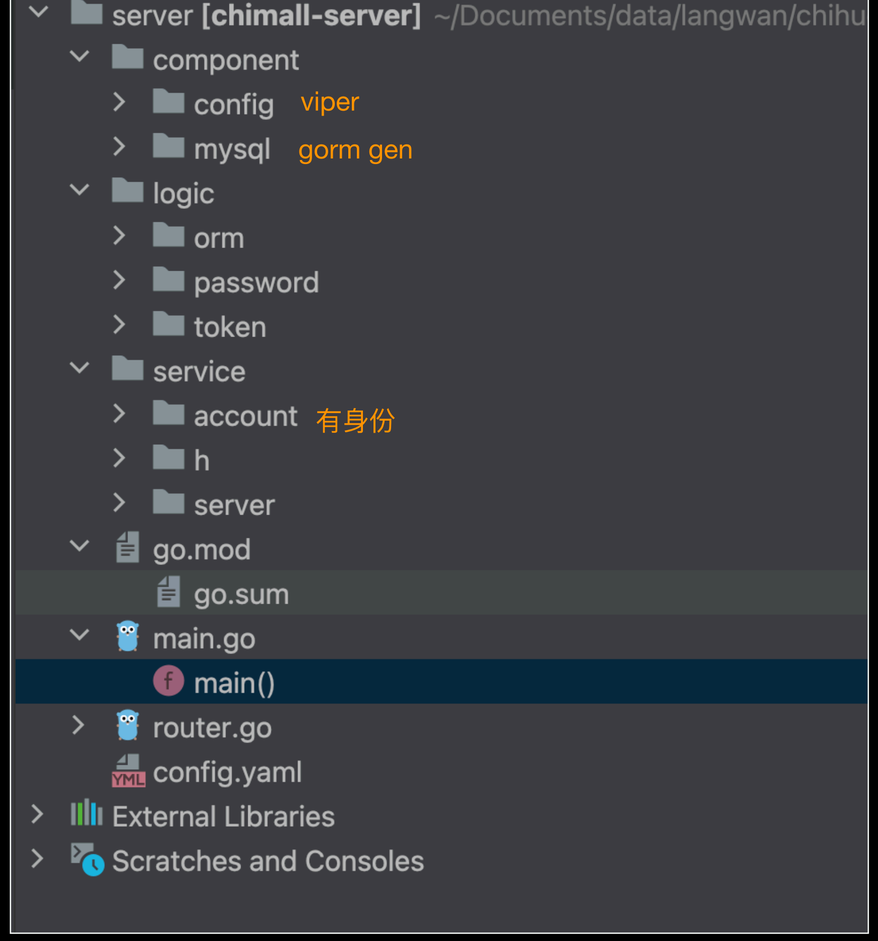
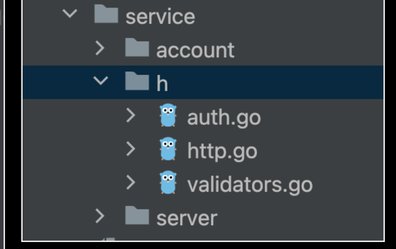
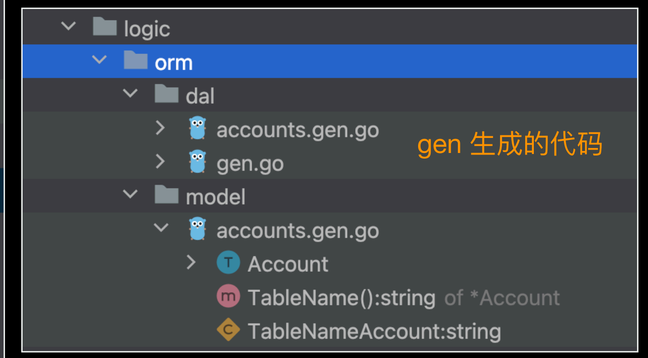
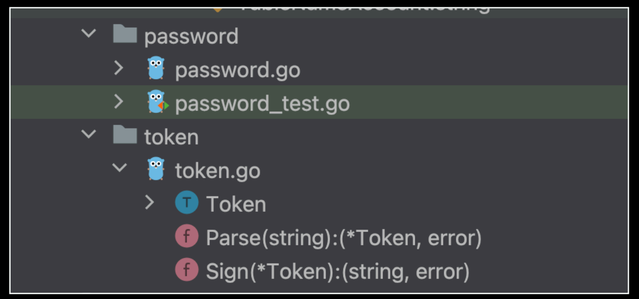
痴商Server端前六总结

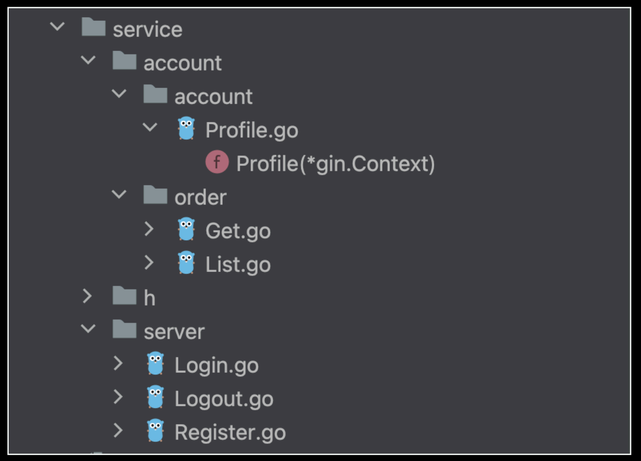
结构

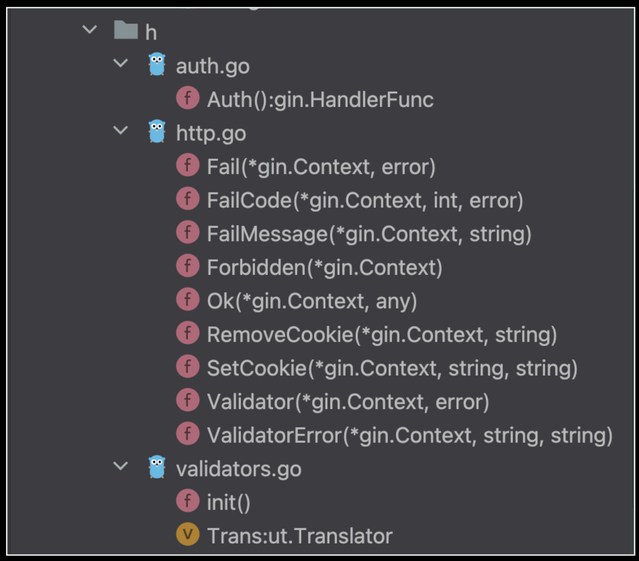













```
github.com/gin-gonic/gin v1.9.0
github.com/go-playground/validator/v10 v10.11.2
github.com/langwan/langgo v0.5.53
github.com/spf13/viper v1.15.0
gorm.io/driver/mysql v1.4.3
gorm.io/gen v0.3.21
gorm.io/gorm v1.24.6
github.com/dgrijalva/jwt-go v3.2.0+incompatible
```

入口

```
package main

import (
  "github.com/gin-gonic/gin"
  _ "server/component/config"
  _ "server/component/mysql"
)

func main() {
  g := gin.New()
  Router(g)
  g.Run(":3003")
}
```

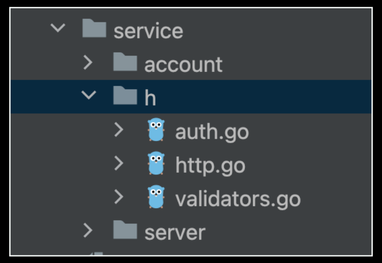
路由

```
func Router(g *gin.Engine) {

  v1 := g.Group("api/v1")

  {
    //登录 注册 忘记密码 注销
    v1.POST("/login", server.Login)
    v1.POST("/register", server.Register)
    v1.POST("/logout", server.Logout)
  }

  account := v1.Group("/account")
  account.Use(h.Auth())
  order := account.Group("/order")
  order.POST("/list", serviceOrder.List)
  order.POST("/get", serviceOrder.Get)

  account.POST("/profile", serviceAccount.Profile)
}
```

绑定 校验

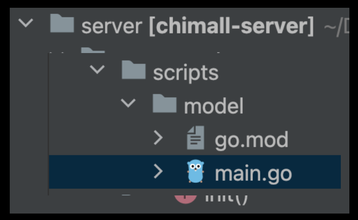
```go
type LoginRequest struct {
  Phone    string `json:"phone" binding:"required,len=11" label:"手机号"`
  Password string `json:"password" binding:"required,len=40" label:"密码"`
}

type LoginResponse struct {
  Token string `json:"token" `
}

func Login(c *gin.Context) {
  var request LoginRequest
  if err := c.ShouldBindJSON(&request); err != nil {
    h.Validator(c, err)
    return
  }
}
```

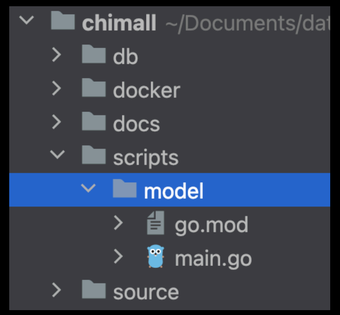
校验库




```go
var (
  Trans ut.Translator
)

func init() {
  if v, ok := binding.Validator.Engine().(*validator.Validate); ok {
    zhHans := localeZhHans.New()
    en := localeEn.New()
    uni := ut.New(zhHans, en)

    Trans, _ = uni.GetTranslator("zhHans")
    err := zh.RegisterDefaultTranslations(v, Trans)
    if err != nil {
      return
    }

    v.RegisterTagNameFunc(func(field reflect.StructField) string {
      return field.Tag.Get("label")
    })

    v.RegisterTranslation("required", Trans, func(ut ut.Translator) error {
      return ut.Add("required", "请输入{0}", true)
    }, func(ut ut.Translator, fe validator.FieldError) string {

      t, err := ut.T(fe.Tag(), fe.Field())
      if err != nil {
        return fe.(error).Error()
      }
      return t
    })
  }
}
```

ORM查询

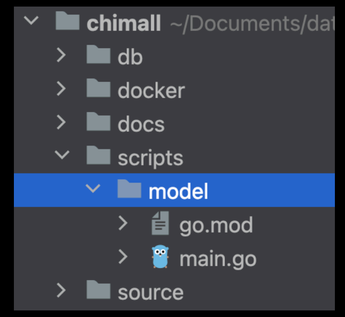




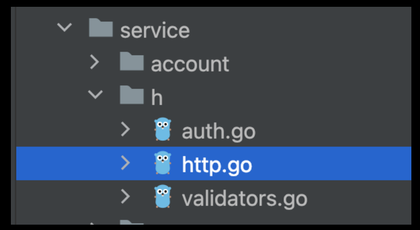

```
acc, err := dal.Account.Where(dal.Account.Phone.Eq(request.Phone)).First()
if err != nil {
  h.Fail(c, err)
  return
}
```

生成ORM代码

```
const dsn = "chimall:password@tcp(localhost:3306)/chimall?charset=utf8mb4&parseTime=True&loc=Loc

func main() {
  db, err := gorm.Open(mysql.Open(dsn))
  if err != nil {
    panic(fmt.Errorf("cannot establish db connection: %w", err))
  }
  // 生成实例
  g := gen.NewGenerator(gen.Config{
    OutPath:      "../../source/server/logic/orm/dal",
    ModelPkgPath: "../../source/server/logic/orm/model",
    Mode:         gen.WithDefaultQuery | gen.WithoutContext,
  })
  // 设置目标 db
  g.UseDB(db)
  g.ApplyBasic(g.GenerateAllTable()...)
  g.Execute()
}
```



返回函数




```go
func Ok(c *gin.Context, body any)                                  200

func Fail(c *gin.Context, err error)                               400

func FailMessage(c *gin.Context, message string)                   400

func FailCode(c *gin.Context, code int, err error)                 400

func Forbidden(c *gin.Context)                                     401

func Validator(c *gin.Context, err error)                          422

func ValidatorError(c *gin.Context, tag, message string)           422

func SetCookie(c *gin.Context, key, val string)

func RemoveCookie(c *gin.Context, key string)
```

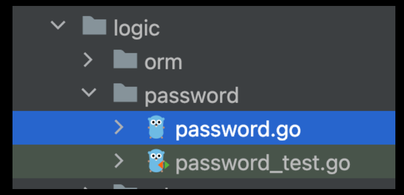
密码处理

服务器端

```
password := logicPassword.Hash(request.Password, salt)

if len(acc.Password) > 0 &&

acc.Password == logicPassword.Hash(request.Password, acc.Salt) {

}
```

客户端

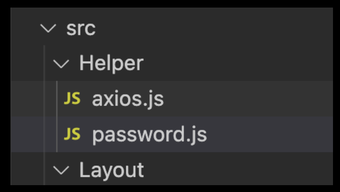
```
let hp = hashPassword(values.password);
```



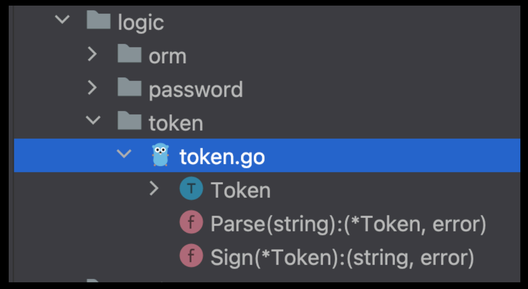
服务器端

```
func Hash(password, salt string) string {
  mac := hmac.New(sha1.New, []byte(password))
  mac.Write([]byte(salt))
  hs := mac.Sum(nil)
  return fmt.Sprintf("%x", hs)
}
```

```
import sha1 from "js-sha1";

export default function hashPassword(password) {
  const salt = password.substring(0, password.length / 2);
  return sha1(sha1(password) + salt);
}
```

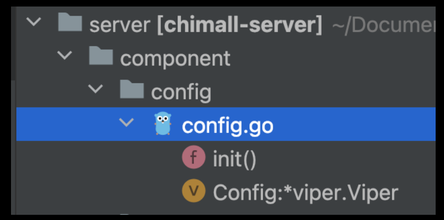


认证 JWT




```
type Token struct {
  Uid      string `json:"uid"`
  Nickname string `json:"nickname"`
  jwt.StandardClaims
}

func Sign(token *Token) (string, error) {
  return jwt.NewWithClaims(jwt.SigningMethodHS256, token).SignedString([]byte(config.Config.GetString("jwt.key")))
}

func Parse(sign string) (*Token, error) {
  tokenClaims, err := jwt.ParseWithClaims(sign, &Token{}, func(token *jwt.Token) (interface{}, error) {
    return []byte(config.Config.GetString("jwt.key")), nil
  })
  if err != nil {
    return nil, err
  } else {
    if tokenClaims != nil {
      if claims, ok := tokenClaims.Claims.(*Token); ok && tokenClaims.Valid {
        return claims, nil
      } else {
        return nil, errors.New("claims error")
      }
    } else {
      return nil, errors.New("claims error")
    }
  }
}
```

配置




```go
var Config *viper.Viper

func init() {
  Config = viper.New()
  wd, err := os.Getwd()
  if err != nil {
    panic(err)
  }
  Config.AddConfigPath(wd)
  Config.SetConfigName("config")
  Config.SetConfigType("yaml")

  if err := Config.ReadInConfig(); err != nil {
    panic(err)
  }

}
```