敏捷工程实践与规范

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业务对技术的要求

所有重复的都应该被自动化

标准API定义

swagger:meta

```
//
       Schemes: http, https
      Host: localhost
11
      BasePath: /v2
      Version: 0.0.1
//
      License: MIT http://opensource.org/licenses/MIT
11
       Contact: liaoqiang<liaoqiang@g7> http://www.g7.com.cn
11
      Consumes:
11
      - application/json
       - application/xml
    Produces:
   - application/json
    application/xml
// swagger:meta
```

swagger:route

```
// swagger:route GET /pets pets listPets
// Lists pets filtered by some parameters.
// This will show all available pets by default.
// You can get the pets that are out of stock
//
//
      Consumes:
// - application/json
      - application/x-protobuf
//
//
// Produces:
// - application/json
      - application/x-protobuf
      Schemes: http, https, ws, wss
      Security:
      api key:
        oauth: read, write
        - 422: validationError
```

swagger:params

```
// swagger:parameters get goods by id
type GetGoodsByIDReq struct {
  // 商品ID
  // in : path
  // Required : true
  GoodsID uint64 `json: "goods id"`
  // Sku筛选审核状态,默认0不作为筛选条件,1-审核通过 2-审核未通过
  // in : query
  // Required : false
  SkuCheckState int8 `json:"sku check state"`
  // Sku筛选上架状态,默认0不作为筛选条件,1-上架 2-下架
  // in : query
  // Required : false
  SkuOnlineState int8 `json:"sku online state"`
```

swagger:response

```
// A ValidationError is an error that is used when the required input fails
validation.
// swagger:response validationError
type ValidationError struct {
    // The error message
    // in: body
    Body struct {
        // The validation message
        //
        // Required: true
        Message string
        // An optional field name to which this validation applies
        FieldName string
    }
}
```

swagger:model

```
// User represents the user for this application
// A user is the security principal for this application.
// It's also used as one of main axes for reporting.
// swagger:model
type User struct {
   // the id for this user
   //
   // required: true
   // min: 1
   ID int64 `json:"id"`
   // the name for this user
   // required: true
   // min length: 3
   Name string `json:"name"`
   // the email address for this user
   // required: true
   Email Email `json:"login"`
   // the friends for this user
   Friends []User `json:"friends"`
```

其他

- swagger:allOf
- swagger:strfmt
- swagger: security

• 重复写注释

• 代码与注释无法保证同步

```
func main() {
   router := gin.Default()
  v1 := router.Group("/v1")
   {
     v1.POST("/login", loginEndpoint)
     v1.POST("/submit", submitEndpoint)
     v1.POST("/read", readEndpoint)
  v2 := router.Group("/v2")
     v2.POST("/login", loginEndpoint)
     v2.POST("/submit", submitEndpoint)
     v2.POST("/read", readEndpoint)
   router.Run(":8080")
```

```
type GetGoodsByIDReq struct {
    // 商品ID
    GoodsID uint64 `json:"goods_id" in:"path" validate:"@uint64[1,]"`
    // Sku筛选审核状态,默认0不作为筛选条件,1-审核通过 2-审核未通过
    SkuCheckState int8 `json:"sku_check_state" in:"query" default:"0"`
    // Sku筛选上架状态,默认0不作为筛选条件,1-上架 2-下架
    SkuOnlineState int8 `json:"sku_online_state" in:"query" default:"0"`
}
```

```
type ErrorField struct {
   // 出错字段路径
   // 这个信息为方便客户端定位错误原因
   // 例如输入中 { "name": { "alias" : "test"}} 中的alias出错 "name.alias"
   // 例如alias是数组, 且第2个元素的a字段错误,则返回"name.alias[2].a"
  Field string `name: "field"`
  // 错误信息
  Msg string `name:"msg"`
   // 错误字段位置
   // body, query, header, path, formData
   In string `name:"in"`
type ErrorFields []*ErrorField
type StatusError struct {
  // 错误Key
  Key string `name:"key"`
  // 错误代码
  Code int64 `name:"code"
  // 错误信息
  Msg string `name:"msg"
  // 是否能作为错误话术
  CanDisplay bool `name:"canDisplay"`
  // 错误溯源
   Source []string `name:"source"`
  // 请求ID
   ID string `name:"id"`
  // 出错字段
  ErrorFields ErrorFields `name:"errorFields"`
```

枚举的可维护性

```
// swagger:enum
type CertType uint8

// 个人证件类型
const (
    CERT_TYPE_UNKNOWN CertType = iota
    CERT_TYPE_ID_CARD // 身份证
    CERT_TYPE_PASSPORT // 护照
```



service shorter trateging rgrpay met

输入 Operation ID 筛选

 GetUrlOp
 GET

 通过短链key查询原始url
 GET

 GetShortKeyOp
 GET

 根据url查询短链地址
 GET

CreateShortUrlOp 创建短链接

GetUrlOp 通过短链key查询原始url GET /r/{shortKey} Parameters / URL Path | Header | Query | Cookie | FormData | Body shortKey* 短链key /r/{shortKey} HTTP/1.0 GET -Origin: string@[1,15] STAGING/service-shorturl/url/GetUr User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_4) AppleWebKit/ Request Responses 301 484 484832888 UrlNotFoundError StatusError{} application/json 该url未创建短链 -canBeTalkError* 484832881 InvalidShortKeyError boolean 是否能作为错误话术 非法的短疑 -code* integer(int64) 错误代码 -desc* string errorFields* []ErrorField{} -field* string 出错字段路径 🕜 in* string 错误字段位置 🕜 -msg*

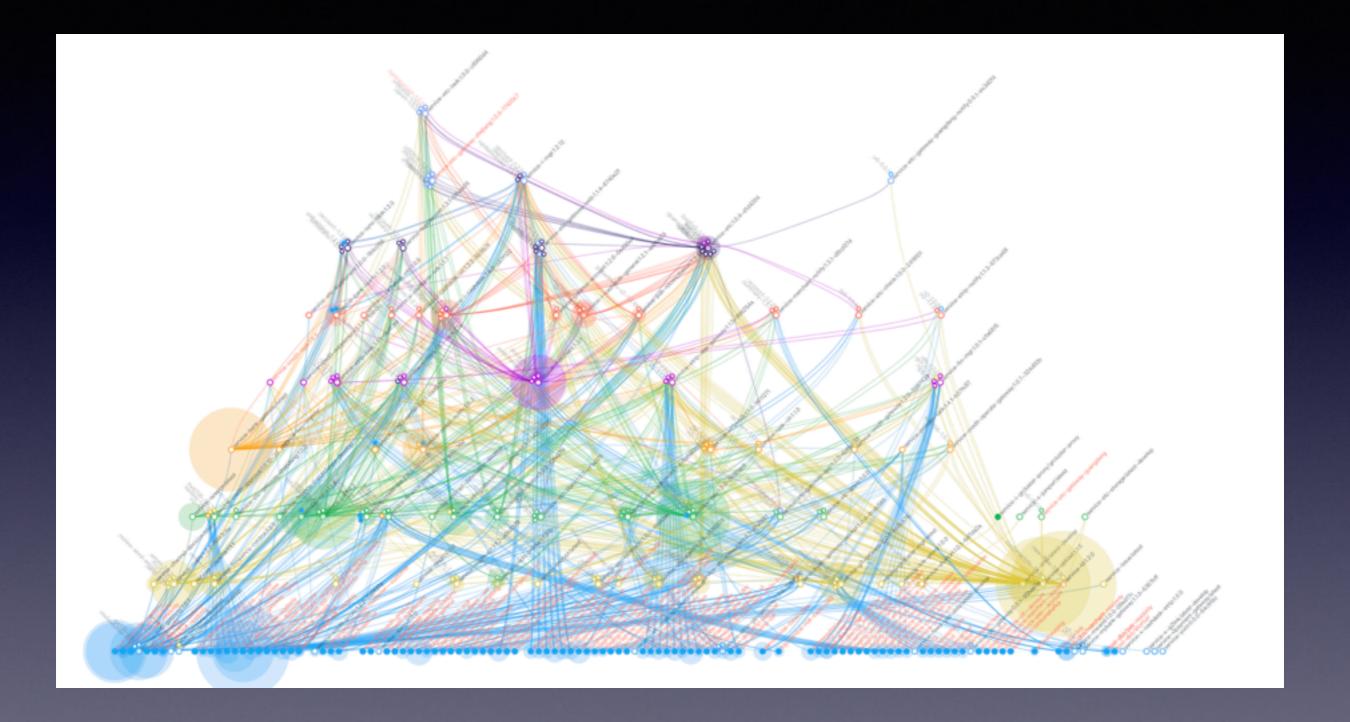
string

数据库操作的重复性

```
//go:generate tools gen model --with-comments --database DBContractMgr Contract
// @def primary ID
// @def unique_index I_from From FromID
type Contract struct {
    // 合同id
    ID uint64 `db:"F_id" json:"contractId,string" sql:"bigint unsigned NOT NULL"`
    // 合同来源
    From types.BusinessFrom `db:"F_from" json:"from" sql:"tinyint unsigned NOT NULL"`
    // 第三方的id
    FromID string `db:"F_from_id" json:"fromId" sql:"varchar(64) NOT NULL"`
    // 逻辑标志
    Enabled enumeration.Bool `db:"F_enabled" json:"-" sql:"tinyint unsigned NOT NULL"`
    // 操作时间
    presets.OperateTime
}
```

client代码的重复性和准确性

```
// go:generate tools gen client --spec-url http://xxxxx.com/user
// go:generate tools gen client --spec-url http://xxxxx.com/data
// go:generate tools gen client --spec-url http://xxxxx.com/pic
```

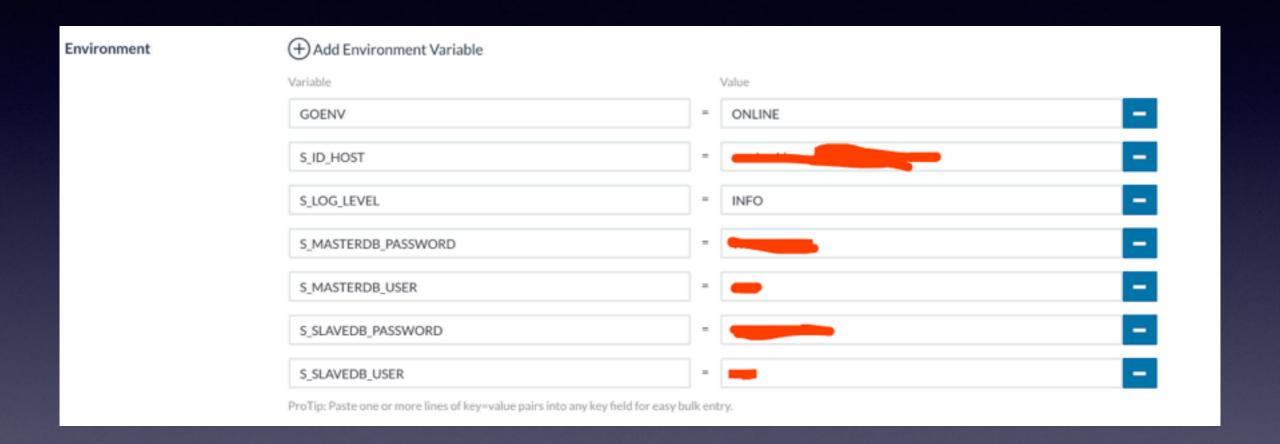


协议与序列化

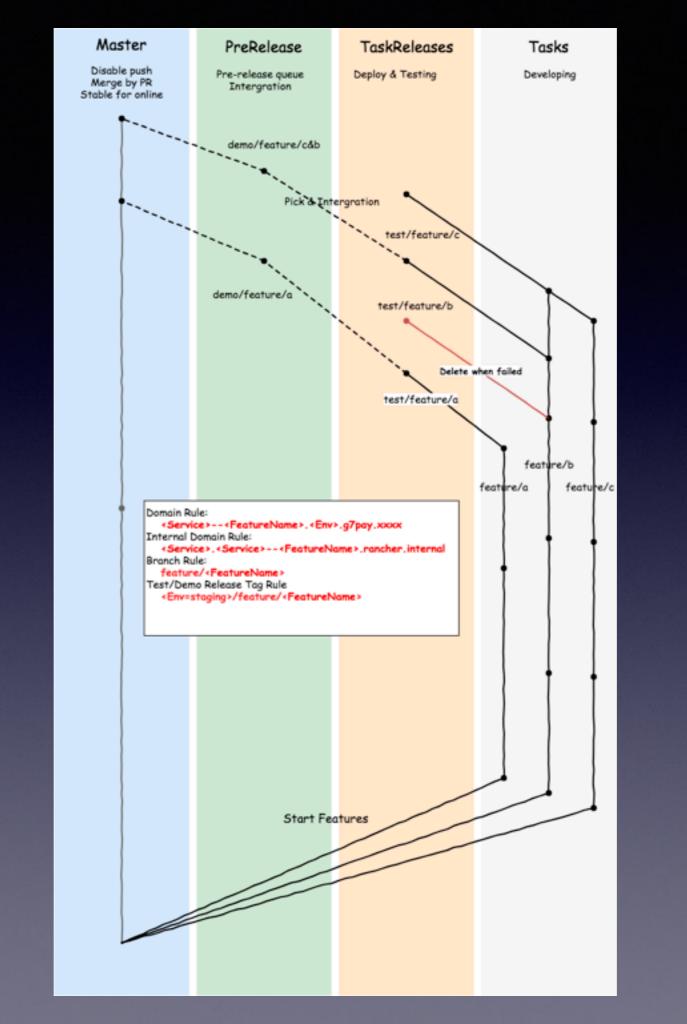
Mock

配置管理

```
var Config = struct {
   Log
           *log.Log
   Server transport http.ServeHTT
  Upload client upload.ClientUpload `conf:"env"`
  MasterDB mysql.MySQL
} {
   Log: &log.Log{
     Level: "DEBUG"
   },
   Server: transport http.ServeHTTP{
     WithCORS: true
      Port: 8000
   },
   Upload: client upload.ClientUpload{
      Client: client.Client{
        Host: "service-upload-customerinfo.xxx.com",
      },
   },
   MasterDB: mysql.MySQL{
     Name:
      Host: "staging.xxx.com",
             "root",
     User:
     Password: "root",
   } ,
```

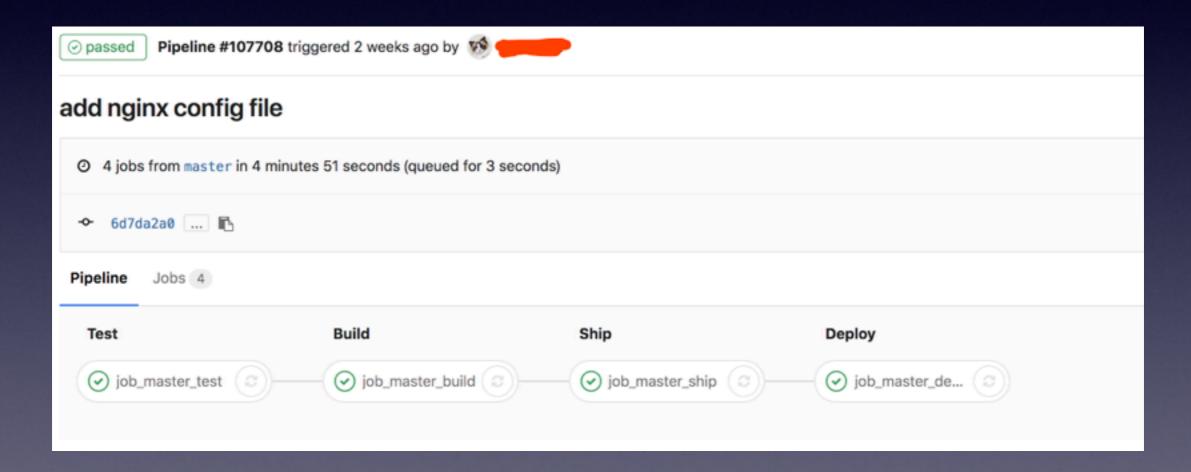


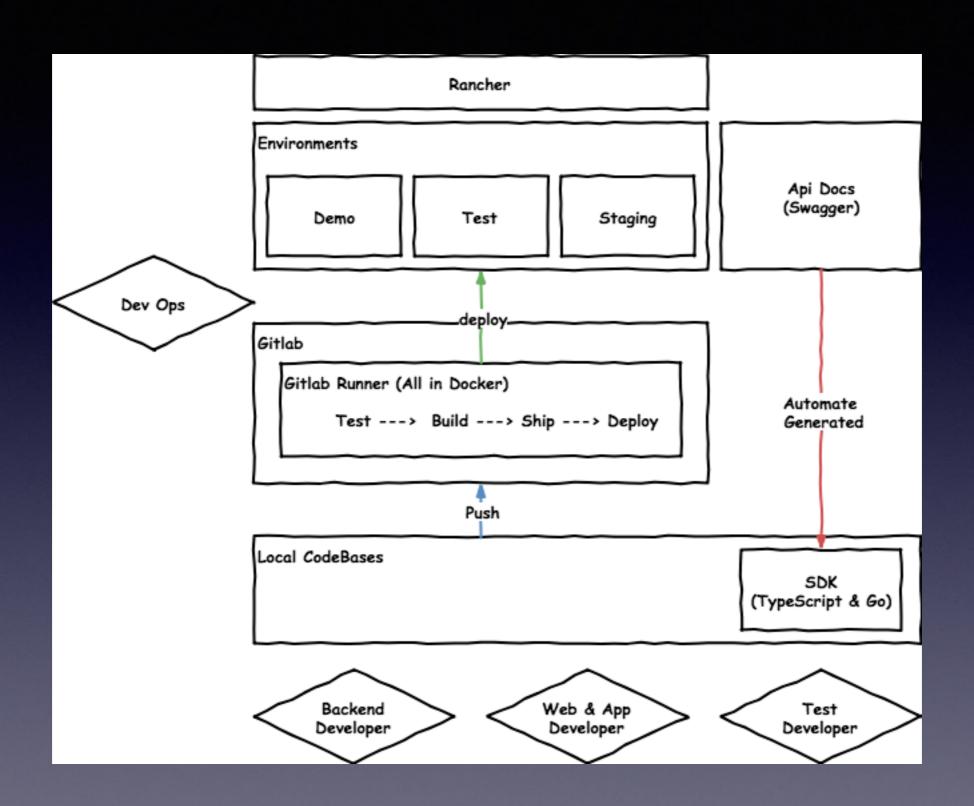
CIFIOW



| = | 短链服务用于内部注册url使用 1.0.1-6d7da2a service-shorturl.staging. | | | | STAGING | TEST | DEMO | DEVOPS |
|------------------------|--|--|-----|---|---------|---------|----------|-------------------------|
| sh | ort | 通过短链key查询原始url hortKey} | | | | | | |
| 当前共有 2 个服务, 其中稳定服务 1 个 | | | | | | | | |
| hor | turl | s 🖊 URL Path 🔛 Header 🖆 Query 🖸 Cookie 📵 FormData 🚯 Body | | | | | | |
| | 服务用于内部注册un使用 1.0.1—6d7da2a rice—shorturl.staging. | ey* 知链 | key | GET //service-shorturl.staging. | 7r/{ | shortKe | y} HTTP/ | 1.0 |
| 短钉 | 服务用于内部注册url使用 with-long-url-limit-1.0.1 vice-shorturlwith-long-url-limit.staging. | [1,15] | | Origin: Referer: http:// User-Agent: Mozilla/5.0 (Macintosh | | | | url/url/Ge AppleWebK |
| | | | | Request | | | | |
| | | | | | | | | |

gitlab CI





未来待做的

• 开发测试并行化

谢谢

PHPCON 官网: www.phpconchina.com

全部 PPT 下载: https://github.com/ThinkDevelopers/PHPConChina

官方QQ群: 34449228、135615537

官方公众号: ThinkInLAMP

