# H1 System Design

## H2 Directory Struct

system level as the top directory

```
xx_foo_system
 - services
    - demo
      - config
        - config.yaml
        - config test.yaml
      - impls
        - group
          - impl change permission in group.go
          - impl change user in group.go
          - server.go
        - impl delete group by id.go
        - impl demo.go
        - server.go
      hook
        - hook.go
      - main.go
      - .k8s.yaml
      - .k8s test.yaml
      - Dockerfile
  - bff
    - admin
      - codes
       - error code.go
      - config
        - config.yml
        - config test.yml
    - impls
      - group
        - impl change permission in group.go
```

```
- impl_change_user_in_group.go
      - types.go
    - department
      - impl_get_department_list.go
      - impl_get_department_list_with_user.go
    - impl_login.go
    - impl_logout.go
    - impl_demo.go
  - router
   - router_base.go
  - hook
  - hook.go
  - main.go
  - .k8s.yaml
  - .k8s_test.yaml
  - Dockerfile
- pb
  - demo
  - group.go
  - login.go
- doc
- README.md
- Makefile
- go.mod
- go.sum
```

#### H<sub>3</sub> TODO

	.k8s_yaml
	.k8s_test.yaml
	config_test.yaml
	Dockerfile
	service impls name、file organization
	bff impls name、file organization
	pb impls name、file organization
	Errcode impls name、file organization

# H2 Annotation

- Туре
  - service.interface
  - serivice.interface.request
  - service.interface.response
  - bff.interface
  - bff.interface.request
  - bff.interface.response

# H2 Bff

- Mutil Bff
- Annotation
  - interface

```
// @type: bff.interface
// @name: 更改用户组权限
// @login: Y
// @page: xxxx
// @des: xxxx
func ChangePermissionInGroupHandler(state
*bff.State) {}
```

Option: des

• interface.request

Option: des

• interface.response

```
// @type: bff.interface.response
// @interface: ChangePermissionInGroupHandler
// @des: xxxx
type ChangePermissionInGroupRequest struct {
   List []*ChangePermissionInGroupItem // 要新增或者
取消的list | Y | [] |
}
```

#### Note

- bff 可以有多层结构,但是接口、请求参数、返回参数不能都出现重复现象
- interface.request 、interface.response 注解中的 interface 应该和接口名字——对 应; interface.request 、interface.response 内嵌结构也 需做到 bff 包下全局唯一

### H2 Service

Mutil service
Annotation

from xxx.proto

interface

```
// @type: service.interface
// @path: demo
// @des: Demo
service Demo {
   rpc Ping(PingRequest) returns
(PingResponse);
}
```

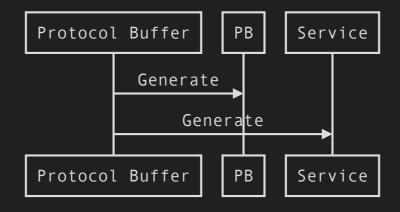
• interface.request

```
// @type: service.interface.request
// @des: Demo
message PingRequest {}
```

• interface.response

```
// @type: service.interface.response
message PingResponse {}
```

### H2 Protocol



### H<sub>3</sub> protocol buffer

```
protcol
   - xxx_demo_system
   - demo
        - ping.proto
        - login.proto
        - bar
        - ping.proto
        - xxx_foo_system
        - demo
        - ping.proto
        - login.proto
        - login.proto
```

### H3 **pb**

```
pb
  - demo
  - ping.go
  - login.go
  - bar
  - ping.go
```