

5.搭建项目骨架

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2.搭建go-zero项目骨架

2.1 项目目录结构

1.建库建表

1.1 robot 表

```
SQL |  
1  create table robot(  
2      id int unsigned not null auto_increment,  
3      name varchar(50) not null comment '机器人名称',  
4      agent_id varchar(50) not null,  
5      appkey varchar(50) not null,  
6      appsecret varchar(150) not null,  
7      primary key(`id`)  
8  )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '机器人表';
```

1.2 user 表

```

1  create table user(
2      id int unsigned not null auto_increment,
3      username varchar(50) not null comment '用户名',
4      password varchar(50) not null comment '密码',
5      real_name varchar(50) not null comment '真实姓名',
6      phone_number char(11) not null default '18233334444' comment '电话号码',
7      department_id int unsigned not null comment '部门id',
8      email varchar(50) not null default 'test@163.com' comment '邮箱',
9      is_admin char(1) not null comment '是否是管理员:1-是;2-否',
10     jenkins_account varchar(50) not null default 'test@163.com' comment 'Jen
    kins账号',
11     jenkins_password varchar(50) not null default '123456789' comment 'Jenki
    ns密码',
12     avatar varchar(100) not null default 'dsfrgsdxcasds' comment '头像md5',
13     constraint department foreign key (`department_id`) references departmen
    t(`id`),
14     primary key(`id`),
15     UNIQUE KEY `idx_username` (`username`) USING BTREE,
16     UNIQUE KEY `idx_user_id` (`id`) USING BTREE,
17     UNIQUE KEY `idx_real_name` (`real_name`) USING BTREE
18 )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '用户表';

```

1.3 department 表

```

1  create table department(
2      id int unsigned not null auto_increment,
3      name varchar(50) not null comment '部门名称',
4      primary key(`id`),
5      UNIQUE KEY `idx_name` (`name`) USING BTREE
6 )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '部门表';

```

1.4 groups表

```
1 create table `groups`(  
2   id int unsigned not null auto_increment,  
3   name varchar(50) not null comment '群组名称',  
4   conversion_id varchar(50) not null default 'fdefgvrfasdfd',  
5   primary key(`id`),  
6   UNIQUE KEY `idx_name` (`name`) USING BTREE  
7 )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '群组表';
```

1.5 remote_host 表

```
1 create table remote_host(  
2   id int unsigned not null auto_increment,  
3   ip varchar(50) not null comment 'IP地址',  
4   auth_type char(1) not null comment '认证类型:1-密码;2-免密',  
5   port varchar(6) not null comment 'ssh端口',  
6   username varchar(50) not null default 'root' comment '登录用户名',  
7   password varchar(50) not null default '' comment '登录密码',  
8   primary key(`id`),  
9   UNIQUE KEY `idx_ip` (`ip`) USING BTREE  
10 )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '远程主机表';
```

1.6 task 表

```

1  create table `task`(
2      id int unsigned not null auto_increment,
3      name varchar(50) not null comment 'task名称',
4      type char(1) not null comment 'task类型:1-GET接口;2-Jenkins任务;3-远程脚本'
5  ,
6      remote_id int unsigned comment '远程脚本的机器id',
7      script text comment '远程脚本内容',
8      jenkins_job_name varchar(50) comment 'jenkins流水线名称',
9      exec_params text not null comment '执行参数',
10     groups_id int unsigned not null comment 'task所属群组id',
11     user_id int unsigned not null comment 'task创建者id',
12     primary key(`id`),
13     constraint fk_romote foreign key (`remote_id`) references remote_host(`id`),
14     constraint fk_groups foreign key (`groups_id`) references `groups`(`id`)
15 ,
16     constraint fk_user foreign key (`user_id`) references user(`id`),
17     UNIQUE KEY `idx_name` (`name`) USING BTREE
18 )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '任务表';

```

1.7 system表

```

1  create table `system`(
2      id int unsigned not null auto_increment,
3      detect_duration int not null comment '探测时间',
4      history_durantion int not null comment '历史记录保存时间',
5      primary key(`id`)
6  )engine=INNODB DEFAULT CHARSET=utf8mb4 COMMENT = '系统表';

```

2.搭建go-zero项目骨架

2.1 项目目录结构

该项目内部模块间的调用使用RPC协议，对外暴露一组RESTful Api。

chatops-server/

├── go.mod

├── go.sum

├── internal // 存放业务代码

| ├── apis // 存放RESTful api

| | └── api

| ├── group

| | ├── model // 存放数据层代码

| | └── rpc // 存放rpc代码

| ├── robot

| | ├── model

| | └── rpc

| ├── system

| | ├── model

| | └── rpc

| ├── task

| | ├── model

| | └── rpc

| └── user

| ├── model

| └── rpc

└── pkg // 存放公共代码