beanpay

提供钱包帐户的创建、查询,余额加款、扣款、退款、查询功能 提供服务包创建、查询,数量增加、减少、撤销、查询功能

- √ 支持钱包余额的加、扣、退
- √ 支持服务包数量的增、减、撤
- √ 独立服务运行,调用 api,rpc 服务集成
- √ 集成服务运行,使用源代码直接集成
- √ 高并发支持
- √ 基于 hydra 构建

接口开发规范

一、独立服务

独立启动 apiserver 对外提供 api, rpc 服务

1、启动 api 服务

• 编译 apiserver 服务

~/work/bin\$ go install -tags "prod" github.com/micro-plat/beanpay/apiserver #mysql 或

~/work/bin\$ go install -tags "prod oci" github.com/micro-plat/beanpay/apiserver #oracle

• 安装服务, 根据安装向导设置数据库连接串,并生成数据库表结构

apiserver install -r zk://192.168.106.18 -c t

• 启动服务

2、测试服务

• 传入用户编号、名称创建钱包帐户。返回创建好的帐户信息

```
~/work/bin$ curl "http://192.168.4.121:9090/account/create?eid=86001&name=colin" {"account_id":86000, "account_name":"colin", "balance":200, "credit":0}
```

• 传入用户编号或商户编号,外部交易编号(幂等判断),加款金额进行钱包加款。返回加款记录信息

```
~/work/bin$ curl "http://192.168.4.121:9090/account/balance/add?eid=86001&trade_no=8970&{"account_id":"86000","amount":"200","balance":"200","change_type":"1","create_time":"200","balance":"200","change_type":"1","create_time":"200","balance":"200","change_type":"1","create_time":"200","balance":"200","balance":"200","change_type":"1","create_time":"200","balance":"200","balance":"200","change_type":"1","create_time":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","balance":"200","ba
```

• 传入用户编号或商户编号,外部交易编号(幂等判断),加款金额进行钱包扣款。返回扣款记录信息

```
~/work/bin$ curl "http://192.168.4.121:9090/account/balance/deduct?eid=86001&trade_no=89 {"account_id":"86000", "amount":"-200", "balance":"0", "change_type":"2", "create_time":"201
```

传入用户编号、外部扣款交易编号(幂等判断),退款金额进行钱包退款,退款金额不能大于扣款金额,同一笔扣款只允许一次退款操作。返回退款记录信息

```
~/work/bin$ curl "http://192.168.4.121:9090/account/balance/refund?eid=86001&trade_no=89 {"account_id":"86000", "amount":"200", "balance":"200", "change_type":"3", "create_time":"200", "balance":"200", "change_type":"3", "create_time":"200", "change_type":"3", "create_time":"3", "
```

3、服务列表

接口开发规范

分类	服务名	类型	说明
钱包	/account/create	api、rpc	添加钱包账户
	/account/balance/query		账户信息查询
	/account/balance/add		账户余额加款
	/account/balance/deduct		账户余额扣款
	/account/balance/refund		账户余额退款
	/account/balance/query		账户余额查询

	/account/record/query		账户变动查询
服务包	/package/create	api√ rpc	添加服务包
	/package/query		服务包信息查询
	/package/capacity/add		服务包数量添加
	/package/capacity/deduct		服务包数量扣除
	/package/capacity/refund		服务包数量退回
	/package/capacity/query		服务包数量查询
	/package/record/query		服务包变动查询

二、代码集成

将数据表创建到业务系统,或独立库,业务系统使用本地代码,直接进行帐户、服务包操作

1、创建数据库

使用 beanpay 创建数据库,支持 mysql, oracle

- 编译 beanpay
- ~/work/bin\$ go install github.com/micro-plat/beanpay #mysql

或

~/work/bin\$ go install -tags "oci" github.com/micro-plat/beanpay # oracle

• 创建数据表

beanpay [注册中心地址] [平台名称] 即可将 beanpay 需要的表创建到 /平台/var/db/db 配置的数据库中。

~/work/bin\$ beanpay zk://192.168.0.109 mall #读取/mall/var/db/db 创建数据库

或

~/work/bin\$ beanpay zk://192.168.0.109 mall mdb #读取 /mall/var/db/mdb 创建数据库

2、编码

• 创建帐户

```
account, err := beanpay.CreateAccount(ctx,
                ctx.Request.GetString("eid"),
                ctx.Request.GetString("name"))
if err != nil {
    return err
}
return account
帐户加款
record, err := beanpay.AddAmount(ctx,
                ctx.Request.GetString("eid"),
                ctx.Request.GetString("trade_no"),
                ctx.Request.GetInt("amount"))
if err != nil {
    return err
}
return record
• 帐户扣款
record, err := beanpay.DeductAmount(ctx,
                ctx.Request.GetString("eid"),
                ctx.Request.GetString("trade_no"),
                ctx.Request.GetInt("amount"))
if err != nil {
    return err
return record
```

其它操作请查看http://github.com/micro-plat/beanpay/beanpay/service.go