# 山东省网ES接口开发文档

一、用户表设计

表结构设计：

--

-- 表的结构 `gp\_sd\_user\_info`

--

CREATE TABLE IF NOT EXISTS `gp\_sd\_user\_info` (

`customer\_id` varchar(20) DEFAULT NULL COMMENT '客户ID',

`user\_id` varchar(15) DEFAULT NULL COMMENT '用户ID',

`user\_name` varchar(20) DEFAULT NULL COMMENT '用户名',

`address\_line` varchar(200) NOT NULL COMMENT '安装地址',

`city` varchar(50) NOT NULL COMMENT '运营商',

`state\_or\_province` varchar(50) NOT NULL COMMENT '省份',

`country` varchar(20) NOT NULL COMMENT '国家',

`email` varchar(40) NOT NULL COMMENT '邮箱',

`postal\_code` varchar(10) NOT NULL COMMENT '邮编',

`primary\_phone` varchar(20) NOT NULL COMMENT '电话',

`device\_type` varchar(20) DEFAULT NULL COMMENT '物理资源类型（智能卡：1）',

`equipment\_id` varchar(30) DEFAULT NULL COMMENT '物理资源ID（智能卡号）',

PRIMARY KEY (`user\_id`),

KEY `customer\_id` (`customer\_id`),

KEY `user\_name` (`user\_name`),

KEY `device\_type` (`device\_type`),

KEY `equipment\_id` (`equipment\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8 COMMENT='山东用户信息表ES接口使用';

二、ngx rewrite 设计

ES的操作接口要求为/Customer.asmx?op=OpenUser 将此请求rewrite成相应的接口处理

rewrite /Customer.asmx?op=(.\*) /Customer?op=$1;

测试用location：

location /Customer

{

content\_by\_lua '

local args = ngx.req.get\_uri\_args()

--for k,v in pairs(args) do

-- ngx.say ("k: ",k," v: ",v)

--end

ngx.req.read\_body()

local post\_args = ngx.req.get\_post\_args()

--ngx.say("your op: ",args.op)

local cjson = require "cjson"

--ngx.say("your posts: ", cjson.encode(post\_args))

local t = {}

t.status = "true"

t.description = "Open User : "..post\_args.user\_id.." Success"

t.value = post\_args

ngx.say(cjson.encode(t))

';

}

请求的测试效果：

|  |  |
| --- | --- |
| 请求 | Curl --data 'customer\_id=1111111&user\_id=2222222&user\_name=333333name&email=email@email.com&device\_type=type1&equipment\_id=AABBCCDDEEFFF88888' http://localhost/Customer.asmx?op=OpenUser |
| 返回 | {"status":"true","value":{"customer\_id":"1111111","equipment\_id":"AABBCCDDEEFFF88888","user\_id":"2222222","email":"email@email.com","device\_type":"type1","user\_name":"333333name"},"description":"Open User : 2222222 Success"} |

三、逻辑处理设计

采用ngx. Lua 的resty.mysql模块与mysql交互，对相应的操作执行对应的处理。

详见 customer.lua

测试：

|  |
| --- |
| [root@localhost lua]# curl --data 'customer\_id=cus000003&user\_id=test00001&user\_name=33usernamealax&email=hotmail@email.com&device\_type=type1&equipment\_id=STB000001' http://localhost/Customer.asmx?op=OpenUser |
| {"status":"true","description":"用户数据插入成功","value":{"customer\_id":"cus000003","equipment\_id":"STB000001","user\_id":"test00001","email":"hotmail@email.com","device\_type":"type1","user\_name":"33usernamealax"}} |
| [root@localhost lua]# curl --data 'customer\_id=cus000003&user\_id=test00001&user\_name=33usernamealax&email=hotmail@email.com&device\_type=type1&equipment\_id=STB000001' http://localhost/Customer.asmx?op=OpenUser |
| {"status":"false","description":"用户已经存在","value":{"customer\_id":"cus000003","equipment\_id":"STB000001","user\_id":"test00001","email":"hotmail@email.com","device\_type":"type1","user\_name":"33usernamealax"}} |
| [root@localhost lua]# curl --data 'customer\_id=cus000003&user\_id=test00001&user\_name=alax\_hu&email=update@email.com&device\_type=type1&equipment\_id=STB000001' http://localhost/Customer.asmx?op=UpdateUser |
| {"status":"true","description":"用户数据更新成功","value":{"customer\_id":"cus000003","equipment\_id":"STB000001","user\_id":"test00001","email":"update@email.com","device\_type":"type1","user\_name":"alax\_hu"}} |
| [root@localhost lua]# curl --data 'user\_id=test00001' http://localhost/Customer.asmx?op=CloseUser |
| {"status":"true","description":"用户注销成功","value":{"user\_id":"test00001"}} |

四、与平台交互接口设计

1. 输入参数：stbId spCode

2、输出参数：returnCode returnMessage customerId status userId userName equipmentId isDeleted

如果查询成功，且查询到用户信息，则returnCode为0，如果查询不到用户,则returnCode为1

curl --data 'stbId=AABBCCDDEEFFF882888&spCode=202' "http://${url}/sd\_get\_user"

|  |
| --- |
| curl --data 'stbId=AABBCCDDEEFFF88888&spCode=202 ' http://localhost/ sd\_get\_user r |
| {"returnMessage":"无此机顶盒记录","returnCode":"1"} |
| {"user\_name":"AABBCCDDEEFFF88888","city":" ","customer\_id":"1111111","device\_type":"type1","count\_no":"1","email":"email@email.com","primary\_phone":" ","user\_id":"2222222","country":" ","address\_line":" ","returnMessage":"查询成功","equipment\_id":"AABBCCDDEEFFF88888","returnCode":"0","state\_or\_province":" ","postal\_code":" "} |
| [root@localhost ~]# curl --data 'stbId=AABBCCDDEEFFF88737&spCode=202' http://localhost/sd\_get\_user  {"user\_name":"333333name","city":" ","customer\_id":"1111111","device\_type":"type2","count\_no":"1","email":"email@email.com","primary\_phone":" ","user\_id":"2222222","country":" ","address\_line":" ","returnMessage":"查询成功","equipment\_id":"AABBCCDDEEFFF88737","returnCode":"0","state\_or\_province":" ","postal\_code":" "}  [root@localhost ~]# curl --data 'stbId=AABBCCDDE228737&spCode=202' http://localhost/sd\_get\_user  {"returnMessage":"无此机顶盒记录","returnCode":"1"}  [root@localhost ~]# curl --data 'aaa&spCode=202' http://localhost/sd\_get\_user  {"returnMessage":"Post 参数缺少stbId, 必要参数的值","returnCode":"1"} |

代码详见sd\_get\_user.lua

五、nginx配置文件

rewrite /Customer.asmx?op=(.\*) /Customer?op=$1;

location /Customer

{

content\_by\_lua\_file 'conf/lua/customer.lua';

default\_type text/html;

charset utf-8;

}

location /sd\_get\_user

{

content\_by\_lua\_file 'conf/lua/sd\_get\_user.lua';

default\_type text/html;

charset utf-8;

}