# 项目设计文档

（桌面APP设计文档）

## 说明

### 字符串说明（文档使用string）

|  |  |
| --- | --- |
| c++ | std::string |
| qt | qstring |
| java | string |

### 项目使用技术

* qt
* c++
* pwa
* react
* vue

### 使用库

* rsocket-cpp
* rxcpp
* rxqt

### c++库管理工具

vcpkg

<https://github.com/microsoft/vcpkg>

### 支持平台

* osx
* windows

### 屏幕适配

使用代码适配不能有很好的效果，窗口固定大小即可。（模仿mac qq）

### rsocket要求

rscoket-cpp 只支持tcp

### 统一写法

#### 时间格式

##### 格式化

|  |
| --- |
| Yyyy-mm-dd't'hh:mm:ss.sss'z' |

##### 数据库存入格式

**毫秒时间戳**

|  |  |
| --- | --- |
| java | long time = system.currenttimemillis(); |
| qt | **qint64 time = qdatetime::currentdatetime().tomsecssinceepoch();** |

### 正则表达式

|  |  |
| --- | --- |
| 名称 | 规则 |
| 邮箱 | ^\\w+([-+.]\\w+)\*@\\w+([-.]\\w+)\*\\.\\w+([-.]\\w+)\*$ |
| 手机号 | ^((13[0-9])|(14[5,7])|(15[0-3,5-9])|(16[6])|(17[0,1,3,5-8])|(18[0-9])|(19[8,9]))\\d{8}$ |
| 电话 | ^0\\d{2,3}[- ]?\\d{7,8} |
| 身份证 | ((2[0-4]\\d|25[0-5]|[01]?\\d\\d?)\\.){3}(2[0-4]\\d|25[0-5]|[01]?\\d\\d?) |
| 中文 | ^[\\u4e00-\\u9fa5]+$ |

## 登录模块

### APP 登录鉴权

|  |  |  |
| --- | --- | --- |
| key | type | 备注 |
| clientid | string | 客户端id |
| client\_secret | string | 客户端密钥 |
| os | string | 操作系统类型,osx,windows,android,ios |

### 用户登录

#### 登录类型

|  |  |
| --- | --- |
| 类型 | 值 |
| 用户名密码 | login-username |
| 二维码 | login-qrcodr |

#### 用户名登录

##### 凭证信息

|  |  |  |
| --- | --- | --- |
| key | type | 备注 |
| access\_token | string | app授权信息 |

##### 参数

|  |  |  |
| --- | --- | --- |
| key | type | 备注 |
| username | string | 用户名称 |
| password | string | 用户密码 |

## 用户列表

获取用户信息

|  |  |  |
| --- | --- | --- |
| key | type | 备注 |
| access\_token | string | 用户授权信息 |

## 任务列表

获取任务列表

|  |  |  |
| --- | --- | --- |
| key | type | 备注 |
| access\_token | string | app授权信息 |

## 消息

### 消息类型

|  |  |
| --- | --- |
| 类型 | 值 |
| 文本消息 | \_text |
| 表情 | \_emoji |
| 文件 | \_file |
| 视频通话 | \_video |
| 语音通话 | \_voicecalls |

## 房间

### 房间类型

|  |  |
| --- | --- |
| 类型 | 值 |
| 两人对话 | \_p2p |
| 群 | \_group |
| 讨论组 | \_discussion\_group |
| 任务消息 | \_task |
| 商品介绍 | \_shop |

## 数据库

时间类型：bigint

类型：前面+ “\_“

varchar 长度统一 256

超长用text

### 用户凭证(\_certificate)

|  |  |  |
| --- | --- | --- |
| key | type | 说明 |
| \_id | integer | 索引 |
| \_user\_id | varchar | 用户id |
| \_username | varchar | 用户名 |
| \_password | varchar | 用户密码 |
| \_access\_token | varchar | 用户token |
| \_refresh\_token | varchar | 刷新token |
| \_login\_type | varchar | 登录类型|用户名密码|二维码 |
| \_save\_password | boolean | 是否保存密码 |
| \_auto\_login | boolean | 是否自动登录 |
| \_time | bigint | 最后登录时间 |

### 用户表(\_user)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_user\_id | Varchar | 用户id |
| \_name | Varchar | 用户名称 |
| \_age | Integer | 年龄 |
| \_sex | Boolean | 性别 |
| \_department | Varchar | 部门 |
| \_job\_title | Varchar | 职称 |
| \_avatar | Varchar | 头像 |
| \_signature | Varchar | 签名 |
| \_phonenumber | Varchar | 手机号 |
| \_email | Varchar | 邮箱 |
| \_qq | Varchar | Qq |
| \_introduction | Varchar | 简介 |

### 好友(\_buddy)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_user\_id | Varchar | 用户id |
| \_buddy\_id | Varchar | 好友用户id |

### 消息---文本(\_message\_text)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar | 房间id |
| \_message\_id | Varchar | 消息id |
| \_event\_id | Varchar | 事件id |
| \_sender | Varchar | 消息发送者 |
| \_time | Integer | 时间 |
| \_text\_content | Text | 消息内容 |
| \_message\_sender\_time | Bigint | 消息发送时间 |
| \_message\_receive\_time | Bigint | 消息接收时间 |
| \_is\_me | Boolean | 消息是否是自己发送 |
| \_is\_read | Boolean | 消息是否已经读取 |
| \_is\_send\_success | Boolean | 消息是否已经发送成功 |

### 消息---文件(\_message\_file)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_d | Varchar | 房间id |
| \_message\_id |  | 消息id |
| \_event\_id |  | 事件id |
| \_sender\_id |  | 发送者id |
| \_time |  | 时间 |
| \_file |  |  |

### 消息---视频通话(\_message\_video)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id |  |  |
| \_message\_id |  |  |
| \_event\_id |  |  |
| \_sender\_id |  |  |
| \_time |  |  |
|  |  |  |

### 消息---语音通话(\_message\_voicecalls)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id |  | 索引 |
| \_room\_id |  |  |
| \_message\_id |  |  |
| \_event\_id |  |  |
| \_sender\_id |  |  |
| \_time |  |  |
| \_voicecalls |  |  |

### 消息列表(\_message\_list)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id |  | 索引 |
| \_room\_id | Varchar |  |
| \_room\_type |  |  |
| \_message\_id | Varchar |  |
| \_message\_type | Varchar |  |
| \_event\_id | Varchar |  |
| \_time | Varchar |  |

### 房间---两人对话(\_room\_p2p)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar |  |
| \_room\_name | Varchar |  |
| \_room\_avatar | Varchar |  |
| \_room\_version | Integer | 房间id,如果房间的信息改变房间版本号应该变化（，例如修改房间名称，房间人员增加，房间人员退出）客户端根据房间版本号判断是否更新房间的基本信息 |

### 房间---群(\_room\_group)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar |  |
| \_room\_name | Varchar |  |
| \_room\_avatar | Varchar |  |
| \_room\_version | Integer |  |

### 房间---讨论组(\_room\_discussion\_group)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar | 房间id |
| \_room\_name | Varchar | 房间名称 |
| \_room\_avatar | Varchar |  |
| \_room\_version | Integer |  |

### 房间---任务消息(\_room\_task)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar |  |
| \_room\_name | Varchar |  |
| \_room\_avatar | Varchar |  |
| \_room\_version | Integer |  |

### 房间列表(\_room\_list)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_user\_id | Varchar | 用户id |
| \_room\_id | Varchar | 房间id |
| \_room\_type | Varchar | 房间类型 |

### 房间成员(\_room\_menber)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_room\_id | Varchar | 房间id |
| \_user\_id | Varchar | 用户id |
| \_room\_type | Varchar | 房间类型 |

### 任务(\_task)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_task\_id | Varchar | 任务id |
| \_task\_name | Varchar | 任务名称 |
| \_task\_desc | Varchar | 任务描述 |
| \_task\_creator\_id | Varchar | 任务创建者 |
| \_task\_executor\_id | Varchar | 任务执行者 |
| \_task\_create\_time | Integer | 任务创建时间 |
| \_task\_start\_time | Integer | 任务开始时间 |
| \_task\_end\_time | Integer | 任务结束时间 |
| \_task\_remark | Varchar | 备注 |
| \_task\_supervisor\_id | Varchar | 任务监督者 |
| \_task\_priority | Varchar | 任务优先级 |

### 任务列表(\_task\_list)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_user\_id | Varchar | 用户id |
| \_task\_id | Varchar | 任务id |

### 部门表(\_organization\_department)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_department\_id | Varchar | 部门id |
| \_department\_name | Varchar | 部门名称 |
| \_department\_number\_count | Varchar | 部门成员数量 |
| \_department\_desc | Varchar | 部门简介 |

### 部门成员表(\_organization\_member)

|  |  |  |
| --- | --- | --- |
| Key | Type | 说明 |
| \_id | Integer | 索引 |
| \_department\_id | Varchar | 部门id |
| \_department\_name | Varchar | 部门名称 |
| \_user\_id | Varchar | 部门成员 |