初始化  1.1 setupEngineWithGameContext / init  initRes  (同步返回值)	iew							
获取游戏列表  2.1 getOption - "GET_GAME_LIST"  2.4 onGetOptionResult  3.1 loadGame								
加载游戏 加载游戏 加载游戏 加载游戏 加载结果 ————————————————————————————————————								
4.2 onMessage ————————————————————————————————————								
更新token  enewToken  renewTokenRes  (同步返回值)								
7.1 leaveGame 高开游戏 leaveGameRes (同步返回值、销毁webview)								
游戏状态通知 6.1 Game/Player状态通知 8.1 onMessage								
接口详细文档  . 初始化,注册回调(ios使用 setupEngineWithGameContext,安.  • 初始化 AgoraGameEngine 配置参数说明:  参数名 类型 获取方式 用途								
	产身份 sen实现鉴权 进行鉴权							
说明 key/类型 示例json  获取游戏列表 GET_GAME_LIST {     "page":1,     "limit":10,     "language":"zh-CN" }	回调 onGetOptionResult							
roomld string 自己定义,区分不同房间 用:	于确定需要加载的游戏 来划分用户,同一个roomld的用户会	在同一局游戏	备注 从声网获取到游戏参与游戏及观看流	游戏都需要	在同一个rooi	mld下	` <b>`</b>	
role string 自己定义,区分不同角色 游: language string 固定枚举 游:	分同一局游戏内的不同用户 戏角色。 戏内不同语言 义游戏的独特参数		<ul><li>客戸需備保任同一</li><li>房主: 1</li><li>同玩玩家: 2</li><li>观众: 3</li><li>中文: "zh-CN"</li><li>英文: "en"</li><li>格式为json字符号</li></ul>		个里夏,召贝	JI会影响到断线重新加入等	: 友 挕	
			参数名 name avatar avatar_type	是一是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	类型 string string number	说明 用户昵称 用户头像 观众在游戏中形象类型, ( 称有头像, 3-无昵称有头像	D-无头像昵称(默认), 1-有昵 象	称无头像, 2-春
			to_user left right top bottom level	是否否否否否	number number number number number	主国激战观众加入对应阵单位像素,游戏内容左侧距单位像素,游戏内容左侧距单位像素,游戏内容顶部距单位像素,游戏底部距离用户等级(保留字段)	距离距离	<b>尼琪与)</b>
			time_limit show_join show_ready show_start show_kickout	否否否否		0-不显示游戏准备按钮(黑	状认) ,1-显示游戏加入按钮 状认) ,1-显示游戏准备按钮 状认) ,1-显示游戏开始按钮	
注意:     1、roomId、userId需要全局唯一     2、一个游戏房间里只有一个房主  加入/准备/结束 本局游戏(使用 setOption,key为GAME_STATE)      本流光进行中的互动操作(像集制								
在游戏进行中的互动操作(触发礼物效果使用setOption接口,keyset setOption支持参数及说明 以 以 以 以 以 以 以 以 以 以 以 以 以 以 以 以 以 以 以	内SEND_GIF I)   权限   观众调用	key/类型 GAME_STATE	示例json  {     "state":"app     "data":{         "isIn":true     } }		_self_in",	{	型, 游戏方返回错误码 e_common_error",	
isln bool 正确流程: (房主不需要准备操作) 1.加入游戏: isln=true → 准备游戏 → 开始游戏; 2.离开游戏: 结束游戏 → 取消准备 → isln=false;  用户 (本人) 准备/取消准备  参数 类型 描述 isReady bool 准备	观众调用	GAME_STATE	{     "state":"app     "data":{         "isReady"     }		_self_ready",	"code":51 "msg":"调 } } onMessage		
开始游戏 参数 类型 描述 isPlaying bool (只能传ture) 房主开始游戏 结束 (本局) 游戏	房主调用	GAME_STATE  GAME_STATE	{     "state":"app     "data":{         "isPlaying     } }		_self_playing	onMessage onMessage		
只用房主才能结束游戏 data为预留字段,传空对象就可以 向指定用户发送礼物 目前仅允许加入游戏后向自己主播(to_user)送礼物 观众可以再游戏进行中加入游戏内	加入游戏的观众	SEND_GIFT	"state":"app "data":{} } { "to":"123", "payload":{ "giftCost", "count":1 }		self_end",	onSetOptionRe	esult	
fo string 需要送给的主播id giftCost number 加入房间后 gift_info 返回的key,详见onMessacount number 触发数量	age		}					
更新token(使用renewToken) 退出游戏并销毁webview(使用leaveGame) 接收Game/Player状态回调(使用onMessage)  onMessage支持参数及说明  说明 游戏加载完毕		示例json						
游戏房间信息 加入房间后会返回 字段 类型 描述		"data":{     "msg":"hell }  {     "key":"GAME     "jsonObject":{         "state":"gar         "data":{	ne_common_room					
limit_time number 单局游戏时长(单位秒) gift_info object 礼物效果列表 gift_info 明细		"data":{ "gift_info "1":"生						
value string 礼物效果明细  用户加入/离开房间事件回调  用户加入或离开游戏时,自己会收到此回调。  字段 类型 描述  userld string 用户id		{     "state":"game     "data":{         "userId":"12         "isIn":true,         "teamId":1,         "reason":0,         "kickUID":1	_common_player_ 23",	in",				
isln bool true为进入房间,false为离开房间 teamId number 加入哪支队伍 reason number -1为进入房间,0 主动退出,1 被踢 kickUID number 触发踢人的用户id(保留字段,目前无意义)  用户准备/取消准备事件回调 用户准备或取消准备时,自己会收到此回调		} } { "state":"game	_common_player_	ready",				
字段 类型 描述 userld string 用户id isReady bool true为准备,false为取消准备  用户开始/结束事件回调 用户开始或结束每局游戏,或用户离开游戏时,自己会收到此回调。 字段 类型 描述		"data":{	rue _common_player_ 23",	playing",				
userId string 用户id isPlaying bool 游戏开始为true,结束为false gameRoundId number 本局游戏ID(游戏厂商生成,在此游戏内部 reason number isPlaying为true时不需要关注reason,is 方说明。		"gameRoui "reason":0 } }	ndld":2,					
参数       说明       角色         0       本局游戏正常结束       玩家         1       提前结束本局游戏(玩家自己不玩了)       玩家         2       提前结束本局游戏(无真人,只有机器人)       玩家         3       提前结束本局游戏(所有人都不玩了)       玩家 / 房主	描述 正常结束 异常结束 异常结束 正常结束 正常结束							
<b>详细接口文档</b> 接口详情								
<pre>* -8: The state is invalid.  */ AGEErrorCodeInvalidState = -8, /**  * -9: No permission. This is for internal use only, ar</pre>	nd does							
* not return to the app through any method or callback */ AGEErrorCodeNoPermission = -9,  nterface AGELogConfig: NSObject / log文件路径, 你需要保证路径的合法性,默认沙盒Documents/AgoraGarroperty (nonatomic, copy) NSString *filePath; / log文件大小单位KB, 默认1024KB roperty (nonatomic, assign) NSInteger fileSizeInKB;	<.							
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print("AGE: operationId:\(operationId) result:\(result) reason:\(String(describing: reason))")

func onGetOptionResult(\_ operationId: Int, optionId: String, result: Bool, outOption: String?) {

}

}

//回调即为游戏自定义通知事件,例如游戏加载完毕、游戏房间信息回调等。

//示例为获取游戏列表的回调,根据不同的operationId区分不同的业务

func onMessage(\_ messageId: String, message: String) {

print("AGE: messageId:\(messageId) message:\(message)")

```
guard let outOptions = outOptions else { return }
          let data = convertStringToDictionary(text: outOptions)
          if let data = data {
              dataSourceArray = data
              DispatchQueue.main.async {
                  self.tableView.reloadData()
                  self.selectIndexPath = nil
      func convertStringToDictionary(text: String) -> [[String:AnyObject]]? {
         if let data = text.data(using: .utf8) {
                 let json = try JSONSerialization.jsonObject(with: data, options: .mutableContainers) as? [String:AnyObject]
                 let td = json?["items"] as? [[String:AnyObject]]
                 return td
             } catch {
                 print("Something went wrong")
         return nil
Android 示例代码
游戏列表接口
Demo 参考
FetchGameListRequiredBean bean = new FetchGameListRequiredBean(10, 1);
GameEngine.getInstance().getOption(0, GameGetOptions.GET_GAME_LIST, new Gson().toJson(bean));
public class FetchGameListRequiredBean {
    private final int limit;
    private final int page;
    private final String language;
    public FetchGameListRequiredBean(int limit, int page) {
        this.limit = limit;
        this.page = page;
        this.language = Locale.getDefault().getLanguage().equalsIgnoreCase("zh") ? "zh-CN" : "en";
}
开始游戏接口
Demo 参考
// 获取当前语言
String language = Locale.getDefault().getLanguage().equalsIgnoreCase("zh") ? "zh-CN" : "en";
JoinGameRequiredBean joinGameRequiredBean = new JoinGameRequiredBean(safePadding, localUser.getName(), localUser.getAvatar(), amHost ? null :currentRoom.getUserId());
GameOptions gameOptions = new GameOptions(roomGame.getGameId(), roomId, localUser.getUserId(), getIdentification(roomId), language, new Gson().toJson(joinGameRequiredBean));
GameEngine.getInstance().loadGame(gameOptions, gameContainerFgRoom);
 public class JoinGameRequiredBean {
    private final int left;
    private final int top;
    private final int right;
    private final int bottom;
    @NonNull
    private final String name;
    @NonNull
    private final String avatar;
    @Nullable
    private final String to_user;
    private final int avatar_type = 2;
    private final int time_limit = 360;
    private final int show_join;
    private final int show_ready;
    private final int show start;
    private final int show_kickout;
    public JoinGameRequiredBean(@NonNull Rect safePadding, @NonNull String name, @NonNull String avatar, @Nullable String targetUser) {
         this.left = safePadding.left;
        this.top = safePadding.top;
        this.right = safePadding.right;
        this.bottom = safePadding.bottom;
        this.name = name;
        this.avatar = avatar;
        this.to_user = targetUser;
        this.show_join = 1;
        this.show_ready = 1;
        this.show_start = 1;
        this.show_kickout = 1;
}
赠送礼物接口
Demo 参考
// 参数2为 giftCost, 王国激战支持值1/2
SendGiftRequiredBean requiredBean = new SendGiftRequiredBean(new SendGiftRequiredBody(currentRoom.getUserId(), gift.getGiftType() % 2 + 1, 1));
GameEngine.getInstance().setOption(2, GameSetOptions.SEND_GIFT, new Gson().toJson(requiredBean));
public class SendGiftRequiredBean {
    private final String to;
    private final SendGiftPayLoad payload;
    public SendGiftRequiredBean(String to, int giftCost, int count) {
        this.to = to;
        this.payload = new SendGiftPayLoad(giftCost, count);
public class SendGiftRequiredBody {
    private final String to;
    private final SendGiftPayLoad payload;
    public SendGiftRequiredBody(String to, int giftCost, int count) {
        this.to = to;
         this.payload = new SendGiftPayLoad(giftCost, count);
public class SendGiftPayLoad {
    private final int giftCost;
    private final int count;
    public SendGiftPayLoad(int giftCost, int count) {
        this.giftCost = giftCost;
```

this.count = count;

print("AGE: operationId:\(operationId) optionId:\(optionId) outOption:\(String(describing: outOption))")