# **ToTokGameSDK API Document**

# (iOS)

| Name    | Date      | version | remark                         |
|---------|-----------|---------|--------------------------------|
| Yuanjun | 2020.3.18 | 1.0.0   | created                        |
| Yuanjun | 2020.3.27 | 1.0.1   | improvements                   |
| Yuanjun | 2020.3.31 | 1.0.2   | add game invite                |
| Yuanjun | 2020.4.07 | 1.0.3   | add single sign-on             |
| Yuanjun | 2020.4.12 | 1.0.4   | improvements                   |
| Yuanjun | 2020.4.17 | 1.0.5   | 1.launch animation deleted     |
|         |           |         | (2.1.1)                        |
|         |           |         | 2.add agreement view (4.1) &   |
|         |           |         | delete 4.2 of last version     |
|         |           |         | 3.Domain Changed               |
|         |           |         | 4.add login with apple (4.2)   |
| Yuanjun | 2020.4.27 | 1.0.6   | improvements                   |
| Yuanjun | 2020.5.13 | 1.0.7   | improvements                   |
| Yuanjun | 2020.5.27 | 1.0.8   | SDK rename                     |
|         |           |         | 1.Replace                      |
|         |           |         | ToTokGameManager class         |
|         |           |         | name with TTkGameManager       |
|         |           |         | 2.Replace                      |
|         |           |         | TTGCLoginType_ToTok with       |
|         |           |         | TTGCLoginType_TTk              |
| Yuanjun | 2020.5.29 | 1.1.0   | improvements                   |
| Yuanjun | 2020.6.24 | 1.1.1   | 1. add totok login (4.6)       |
|         |           |         | 2. add twitter login (4.5)     |
|         |           |         | 3. add totok friends and share |
|         |           |         | (7.2 & 7.3 & 7.4)              |
| Yuanjun | 2020.7.06 | 1.1.2   | add notification of account    |
|         |           |         | banned (1.3.11 & 4.11)         |

| Yuanjun | 2020.7.10 | 1.1.3 | 1. fix AppsFlyer              |
|---------|-----------|-------|-------------------------------|
|         |           |       | 2. get available token (4.12) |

## 1. Description and definition

### 1.1 API call

Import <TTkGameSDK/TTkGameSDK.h>
Every API is called by [TTkGameManager defaultManager] instance

### 1.2 Callback

error is a common field for every callback class. if error equals to nil, it means the api call is success.

### 1.3 Callback classes:

### 1.3.1 Login Callback

class: TTGCUserCompletionHandler
fields:

error

### 1.3.2 Receive Notification Callback

class: TTGCNotificationCompletionHandler

fields:

result //the notification message

error

### 1.3.3 Logout Callback

class: TTGCLogoutCompleteHandler

fields:

success // BOOL type, indicate operation result

error

### 1.3.4 Get Friends Callback

class: TTGCFriendsCompletionHandler

fields:

list //fields list, contains from 0 -> N friend object

error

#### 1.3.5 Share Callback

class: TTGCShareCompleteHandler

fields:

success // BOOL type, indicate operation result

error

### 1.3.6 Payment Callback

class: TTGCOrderProgressHandler

fields:

TTGCOderStatus //Payment order status

## 1.3.7 Payment Result Callback

class: TTGCOrderCompletionHandler

fields:

orderInfo //the payment order object

error

### 1.3.8 AppVersion Info Callback

class: TTGCVersionCompletionHandler

fields:

hasNewVersion //has new version

versionInfo //the version detail information. class model <TTGCAppVersion>

error

### 1.3.9 Common Callback

class: TTGCCompletionHandler

fields:

result //operation result

error

### 1.3.10 Account Kicked Callback

class: TTGCAccountKickedHandler

fields:

information //information of notification

### 1.3.11 Account Banned Callback

class: TTGCAccountBannedHandler

fields:

information //the reason of banned

time

## 1.4 Errors

| TTGCPlatformErrorType_Unknow          | unkown error      |
|---------------------------------------|-------------------|
| TTGCPlatformErrorType_AuthorizeFailed | authorized failed |

| TTGCPlatformErrorType_ForUserInfoFailed   | request user data failed          |
|---|-----------------------------------|
| TTGCPlatformErrorType_LoginFailed         | login failed                      |
| TTGCPlatformErrorType_FriendsListFailed   | get firends failed                |
| TTGCPlatformErrorType_MessageSendFailed   | send message failed               |
| TTGCPlatformErrorType_PayFailed           | payment failed                    |
| TTGCPlatformErrorType_ShareFailed         | share failed                      |
| TTGCPlatformErrorType_NotInstall          | app is not installed              |
| TTGCPlatformErrorType_NotNetWork          | network exception                 |
| TTGCPlatformErrorType_SourceError         | third error                       |
| TTGCPlatformErrorType_NoPermission        | no permissions                    |
| TTGCPlatformErrorType_UnauthorizedRequest | unauthorized request, need login. |

# 2. Setup Initialize (must)

#### 2.1 Launch

Methods in AppDelegate are implement like below:

#### 2.1.1 Setup Configuration:

The launch animation for SDK-1.0.5 has been removed and the specific launch animation needs to be implemented by the game developers.

```
- (BOOL) application: (UIApplication *) application
didFinishLaunchingWithOptions: (NSDictionary *) launchOptions {
    // set SDK Api Enviroment
    [[TTkGameManager defaultManager] setServerDomainTest];
    // set Pay Enviroment
    [[TTkGameManager defaultManager] setPayEnvironmentTest];
    // open log
    [[TTkGameManager defaultManager] openLogInfo];
```

```
// launch SDK

NSString *appId = @"xxxxxx";

NSString *appSecret = @"xxxxxxx";

NSString *gameid = @"xxxxxxx";

[[TTkGameManager defaultManager] setupWithAppId:appId Secret:appSecret

GameId:gameid Application:application Options:launchOptions];

return YES;
}
```

#### 2.1.2 External Callback:

```
- (BOOL)application:(UIApplication *)app openURL:(NSURL *)url
options:(NSDictionary<UIApplicationOpenURLOptionsKey,id> *)options {
    return [[TTkGameManager defaultManager] application:app openURL:url
options:options];
}
```

#### 2.1.3 App Events:

```
- (void) applicationDidEnterBackground: (UIApplication *) application {
    [[TTkGameManager defaultManager] applicationDidEnterBackground:application];
}
- (void) applicationWillEnterForeground: (UIApplication *) application {
    [[TTkGameManager defaultManager] applicationWillEnterForeground:application];
}
- (void) applicationDidBecomeActive: (UIApplication *) application {
    [[TTkGameManager defaultManager] applicationDidBecomeActive:application];
}
- (void) applicationWillTerminate: (UIApplication *) application {
    [[TTkGameManager defaultManager] applicationWillTerminate:application];
}
```

#### 2.1.4 Push Register:

```
- (void)application:(UIApplication *)application
didRegisterForRemoteNotificationsWithDeviceToken:(NSData *)deviceToken {
    [[TTkGameManager defaultManager] registerDeviceToken:deviceToken];
}
```

```
- (void)application: (UIApplication *)application
didReceiveRemoteNotification: (NSDictionary *)userInfo fetchCompletionHandler: (void

(^) (UIBackgroundFetchResult))completionHandler {
    [[TTkGameManager defaultManager] application:application
didReceiveRemoteNotification:userInfo];
}
```

#### 2.1.5 Universal Link:

### 2.2 Check App Version

After SDK is launched, be sure to check the version to ensure that the current version is available. If you need to force upgrade, you can go to the appstore to download the latest version, otherwise the SDK function may not be available.

```
}
}
}
```

#### 2.2.1 Check Version

| Method   | checkAppVersio               | onCompletion   |
|----------|------------------------------|--|
| Callback | TTGCVersionCompletionHandler |  |
|          | hasNewVersion                | // has new version <bool></bool>   |
|          | versionInfo                  | // the version detail information. class model <ttgcappversion></ttgcappversion> |
|          | build                        | // app build code  |
|          | version                      | // app new version   |
|          | versionInfo                  | // the version information   |
|          | forceUpdate                  | // need to force upgrade <bool></bool>   |
|          | currentVersion               | nCode // current version code  |

#### 2.2.2 Open AppStore

| Method | openAppStoreWithStoreIdentifier                                  |  |
|--------|--|--|
| Params | identifier //App Store item identifier (NSNumber) of the product |  |

# 3. API: Configuration

## 3.1 Enbale Log Output

```
[[TTkGameManager defaultManager] openLogInfo];
```

## 3.2 Disable Log Output(default)

```
[[TTkGameManager defaultManager] closeLogInfo];
```

### 3.3 Set Test Environment

```
[[TTkGameManager defaultManager] setServerDomainTest];
```

## 3.4 Set Production Environment(default)

```
[[TTkGameManager defaultManager] setServerDomainProduction];
```

## 3.5 Set Sandbox Payment

```
[[TTkGameManager defaultManager] setPayEnvironmentTest];
```

## 3.6 Set Production Payment(default)

```
[[TTkGameManager defaultManager] setPayEnvironmentProduction];
```

# 4. API: Login&User Info

User must agree the User Agreement & Privacy before do Login action

### 4.1 Show Agreement View

```
- (IBAction)agreement:(id)sender {
    [[TTkGameManager defaultManager] showAgreementView];
}
```

## 4.2 Login with Apple

Login with Apple only supports iOS13 and higher.

| Method   | loginWithAppleCompletion  |
|----------|---------------------------|
| Callback | TTGCUserCompletionHandler |

#### example:

```
- (IBAction)appleLogin:(id)sender {
   TTGCHUD_NO_Stop(@"login...")
   __weak __typeof(self)weakSelf = self;
   [[TTkGameManager defaultManager] loginWithAppleCompletion:^(id _Nonnull userInfo,
NSError * _Nonnull error) {
        if (!error) {
            //login success
            TTGCHUD_SUCCESS(@"success")
            [weakSelf closeLoginView];
        } else {
            //error info
            TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
        }
    }];
}
```

## 4.3 Login with GameCenter

| Method   | loginWithGameCenterCompletion |
|----------|-------------------------------|
| Callback | TTGCUserCompletionHandler     |

```
- (void)gamecenterLogin {
    TTGCHUD_NO_Stop(@"login...")
    __weak __typeof(self)weakSelf = self;
    [[TTkGameManager defaultManager] loginWithGameCenterCompletion:^(id _Nonnull
userInfo, NSError * _Nonnull error) {
    if (!error) {
        //login success
        TTGCHUD_HINT(@"success")
```

```
[weakSelf closeLoginView];
} else {
    //error info
    TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
}
}];
```

## 4.4 Login with Facebook

| Method   | loginWithFacebookCompletion |
|----------|-----------------------------|
| Callback | TTGCUserCompletionHandler   |

#### example:

## 4.5 Login with Twitter

| Method | loginWithTwitterCompletion |
|--------|----------------------------|
|--------|----------------------------|

#### example:

```
- (IBAction)twitterLogin:(id)sender {
    TTGCHUD_NO_Stop(@"login...")
    __weak __typeof(self)weakSelf = self;
    [[TTkGameManager defaultManager] loginWithTwitterCompletion:^(id __Nonnull userInfo,

NSError * _Nonnull error) {
    if (!error) {
        //登录成功
        TTGCHUD_SUCCESS(@"success")
        [weakSelf closeLoginView];
    } else {
        //查看 error 信息
        TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
    }
};
```

## 4.6 Login with ToTok

| Method   | loginWithTTkCompletion    |
|----------|---------------------------|
| Callback | TTGCUserCompletionHandler |

```
- (IBAction)totokLogin: (id) sender {
    TTGCHUD_NO_Stop(@"login...")
    __weak __typeof(self) weakSelf = self;
    [[TTkGameManager defaultManager] loginWithTTkCompletion:^(id _Nonnull userInfo,

NSError * _Nonnull error) {
    if (!error) {
        //login success

        TTGCHUD_SUCCESS(@"success");
        [weakSelf closeLoginView];
    } else {
```

```
//error info

TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
}
};
```

## 4.7 Login with Guest

| Method   | guestLoginCompletion      |
|----------|---------------------------|
| Callback | TTGCUserCompletionHandler |

#### example

```
- (void)guestLogin {
   TTGCHUD_NO_Stop(@"login...")
   __weak __typeof(self)weakSelf = self;
   [[TTkGameManager defaultManager] guestLoginCompletion:^(id _Nonnull userInfo,

NSError * _Nonnull error) {
        if (!error) {
            //login success
            TTGCHUD_HINT(@"success")
            [weakSelf closeLoginView];
        } else {
            //error info
            TTGCHUD_Stop
        }
    });
}
```

### 4.8 Get User Info

| Method   | userInfoCompletion        |
|----------|---------------------------|
| Callback | TTGCUserCompletionHandler |

| Params | TTGCUserModel |  |
|--------|---------------|--|
|        | userType      | user type (TTGCLoginType by 3.7)               |
|        | userId        | user's indentifier                             |
|        | nickname      | nickname                                       |
|        | photoUrl      | head image url                                 |
|        | pushOff       | push switch 0:push switch on 1:push switch off |

#### example

```
- (void)getUserInfo {
   TTGCHUD_NO_Stop(@"")
   [[TTkGameManager defaultManager] userInfoCompletion:^(id _Nullable userInfo,
   NSError * _Nullable error) {
      if (!error) {
         TTGCHUD_HINT(@"success")
         TTGCUserModel *model = userInfo;
         [self freshUserInfo:model];
      } else {
         //error info
         TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
      }
   }];
}
```

## 4.9 Get Login Type

| Method | loginType     |
|--------|---------------|
| Return | TTGCLoginType |

#### Definition:

| Enum                               | TTGCLoginType       |
|------------------------------------|---------------------|
| Description                        | Enum type for Login |
| Enum Values                        |                     |
| TTGCLoginType_unloggedIn not login |                     |

| TTGCLoginType_TTk        | ToTok user        |
|--------------------------|-------------------|
| TTGCLoginType_GameCenter | GameCenter player |
| TTGCLoginType_Facebook   | Facebook user     |
| TTGCLoginType_Twitter    | Twitter user      |
| TTGCLoginType_Guest      | ToTokGame guest   |

#### example:

```
- (void) showLoginView {
    if ([[TTkGameManager defaultManager] loginType] == TTGCLoginType_unloggedIn) {
        //unlogged in and show login UI
        [self backgroundUI];
        [self loginView];
    } else {
        dispatch_after(dispatch_time(DISPATCH_TIME_NOW, (int64_t)(2.5 * NSEC_PER_SEC)),
        dispatch_get_main_queue(), ^{
            [self getUserInfo];
        });
    }
}
```

## 4.10 Notification of offline

| Method   | accountKickedNotification |
|----------|---------------------------|
| Callback | TTGCAccountKickedHandler  |

```
[[TTkGameManager defaultManager] accountKickedNotification:^(NSString * _Nullable
information) {
    //Your account has been logged in on another device, please login again.
    TTGCHUD_HINT(information);
    [self showLoginView];
}];
```

### 4.11 Notification of banned

| Method   | accountBannedNotification |
|----------|---------------------------|
| Callback | TTGCAccountBannedHandler  |

#### example:

```
[[TTkGameManager defaultManager] accountBannedNotification:^(NSString * _Nullable
information, NSString * _Nullable time) {
      //Your account has been banned.
}];
```

### 4.12 Get Available Token

| Method   | getAvailableAccessToken   |
|----------|---------------------------|
| Callback | TTGCUserCompletionHandler |

#### example:

```
[[TTkGameManager defaultManager] getAvailableAccessToken:^(id _Nullable userInfo,

NSError * _Nullable error) {

   if (userInfo) {

       TTGCUserModel *userModel = userInfo;

       NSLog(@"userid: %@", userModel.userId);

       NSLog(@"token: %@", userModel.accessToken);

   }

}];
```

# 5. API: Logout

| Method   | logout                    |
|----------|---------------------------|
| Callback | TTGCLogoutCompleteHandler |

```
- (IBAction)logout:(id)sender {
   TTGCHUD_NO_Stop(@"logout...")

[[TTkGameManager defaultManager] logout:^(BOOL success, NSError * _Nullable error) {
   if (success) {
        TTGCHUD_HINT(@"success")
        [self showLoginView];
    } else {
        //error info
        NSLog(@"%@",error.userInfo);
        TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
    }
};
}
```

# 6. API: Game Payment

### **6.1 Product Purchase**

#### **Order Status Definition:**

| TTGCOrderStatus_ProductQuerying   | query product             |
|-----------------------------------|---------------------------|
| TTGCOrderStatus_Generating        | order init                |
| TTGCOrderStatus_ProductPurchasing | order in trading progress |
| TTGCOrderStatus_ProductPurchased  | order purchased           |
| TTGCOrderStatus_ReceiptChecking   | order verifying           |

| Method   | buyProductWithSKU: Progress: Completion: |
|----------|--|
| Params   |  |
| sku      | String, product id                       |
| Progress | TTGCOrderProgressHandler                 |

```
Completion

TTGCOrderCompletionHandler

class TTGCOrderModel
orderId
orderRef //transaction_id
channel //1
env //0=sandbox, 1=production
sku //product id
amount //price
createTime
payTime
cancelTime
status //0=order created, 1=order payed, 2=order reset
```

#### remark:

the Game Server should send the product to user's account after the order be payed, then check the order status by server api, Order status check is necessary for anti-spam

Server API: <ToTokGame Server API Document (to Game Developer)>

```
- (IBAction)pay:(id)sender {
   TTGCHUD_NO_Stop(@"pay...")
   [[TTkGameManager defaultManager] buyProductWithSKU:@"LangChaoJD001"
Progress:^(TTGCOderStatus orderStatus) {
     NSLog(@"order status: %ld", (long)orderStatus);
} Completion:^(id _Nullable orderInfo, NSError * _Nullable error) {
     if (orderInfo) {
        TTGCHUD_HINT(@"success")
     }
     if (error) {
        NSLog(@"%@",error.userInfo);
        TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
     }
}];
```

## **6.2 Query Order**

| Method     | queryOrderWithOrderId: Completion: |
|------------|------------------------------------|
| Params     |                                    |
| orderId    | the order's id                     |
| Completion | TTGCOrderCompletionHandler         |
|            | TTGCOrderModel by 5.1              |

#### example:

```
- (IBAction) query: (id) sender {
    [[TTkGameManager defaultManager] queryOrderWithOrderId:@"xxx"

Completion:^(id _Nullable orderInfo, NSError * _Nullable error) {
    if (orderInfo) {
        //get order info
    } else {
        //error message
    }
};
```

## 7. API: SNS & Share

## 7.1 Field Description

#### TTGCFriendModel

| Params   | Note             |
|----------|------------------|
| ttkUid   | totok user id    |
| name     | friend's name    |
| photoUrl | friends' avatars |

#### TTGCPlayingFriendModel

| Params   | Note              |
|----------|-------------------|
| ttkUid   | totok user id     |
| userId   | user id of friend |
| name     | friend's name     |
| photoUrl | friends' avatars  |

#### TTGCSocialTTkNotice

| Params        | Note                       |
|---------------|----------------------------|
| ttkUid        | totok user id              |
| title         | shared title               |
| contentString | shared text content        |
| imageUrl      | shared web picture address |

#### TTGCSocialTTkInvite

| Params       | Note                       |
|--------------|----------------------------|
| ttkUid       | totok user id              |
| contenString | shared text content        |
| imageUrl     | shared web picture address |
| buttonTitle  | shared click button name   |

## 7.2 Get ToTok Friends

| Method   | getFriendsFromServerCompletion  |
|----------|---------------------------------|
| Callback | TTGCTTkFriendsCompletionHandler |

```
- (void)getFriends {
    [[TTkGameManager defaultManager] getFriendsFromServerCompletion:^(NSArray * _Nullable
list, NSError * _Nullable error) {
        // list of ttk friends
    }];
}
```

## 7.3 Get Playing Game Friends

| Method   | getPlayingFriendsFromServerCompletion |
|----------|---------------------------------------|
| Callback | TTGCTTkFriendsCompletionHandler       |

#### example:

## 7.4 Share (ToTok)

## 7.4.1 Share Invite Message

| Method   | sendToMessageTottk:(id)message Completion: |
|----------|--|
| Callback | TTGCShareCompleteHandler                   |

```
- (void)inviteFriend {
   TTGCSocialTTkInvite *model = [[TTGCSocialTTkInvite alloc] init];
   model.ttkUid = @"xxxxxxxx";
   model.contentString = @"come and join us";
   model.buttonTitle = @"Accept";
   model.imageUrl =
@"http://t8.baidu.com/it/u=1484500186,1503043093&fm=79&app=86&f=JPEG?w=1280&h=853";
   [[TTkGameManager defaultManager] sendToMessageTottk:model Completion:^(BOOL success,
NSError * _Nullable error) {
    }];
}
```

### 7.4.2 Share Notice Message

| Method   | sendToMessageTottk:(id)message Completion: |
|----------|--|
| Callback | TTGCShareCompleteHandler                   |

#### example:

```
- (void) sendNoticeToFriend {
   TTGCSocialTTkNotice *model = [[TTGCSocialTTkNotice alloc] init];
   model.ttkUid = @"xxxxxxxxx";
   model.contentString = @"come and join us";
   model.title = @"play game";
   model.imageUrl =
@"http://t8.baidu.com/it/u=1484500186,1503043093&fm=79&app=86&f=JPEG?w=1280&h=853";
   [[TTkGameManager defaultManager] sendToMessageTottk:model Completion:^(BOOL success,
NSError * _Nullable error) {
    }];
}
```

## 7.5 Share (Third-Party)

Share to Facebook, WhatsApp.

### 7.5.1 Share To Facebook

| Method  | facebookShareMessage: completion:            |
|---------|--|
| Params  |  |
| Message | 1.TTGCSocialFBInvite                         |
|         | quote //message text                         |
|         | 2.TTGCSocialFBImages                         |
|         | photoImage //photo image <uiimage></uiimage> |

|            | 3.TTGCSocialFBFriendsGameInvite    |
|------------|------------------------------------|
|            | inviteString //invite message text |
| completion | TTGCShareCompleteHandler           |

```
// share invite link to facebook
- (IBAction) fbShare: (id) sender {
   TTGCSocialFBInvite *obj = [[TTGCSocialFBInvite alloc] init];
   obj.quote = @"Join us";
   [[TTkGameManager defaultManager] facebookShareMessage:obj completion:^(BOOL success,
NSError * Nullable error) {
      if (success) {
       } else {
           if (error) {
              TTGCHUD HINT([error.userInfo objectForKey:@"errorMsg"]);
   }];
//share image to facebook
- (IBAction) fbpic: (id) sender {
   UIImage *image = [UIImage imageNamed:@"totokgame logo 1024"];
   TTGCSocialFBImages *obj = [[TTGCSocialFBImages alloc] init];
   obj.photoImage = image;
   [[TTkGameManager defaultManager] facebookShareMessage:obj completion:^(BOOL success,
NSError * Nullable error) {
      if (success) {
       } else {
          if (error) {
              TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
           }
       }
   }];
```

```
//send invite to facebook friends(This feature is only available if you are logged in with
Facebook)

- (IBAction)fbGameInviteFriends:(id)sender {
    TTGCSocialFBFriendsGameInvite *obj = [[TTGCSocialFBFriendsGameInvite alloc] init];
    obj.inviteString = @"join us";
    [[TTkGameManager defaultManager] facebookShareMessage:obj completion:^(BOOL success,
NSError * _Nullable error) {
        if (success) {
            TTGCHUD_SUCCESS(@"sent the message");
        } else {
            if (error) {
                TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
        }
    }
    }
}
}
```

## 7.5.2 Share To WhatsApp

| Method     | whatsAppShareMessage: completion:          |
|------------|--|
| Params     |  |
| Message    | 1.TTGCSocialWAInvite                       |
|            | contentString // whatsApp message text     |
|            | 2.TTGCSocialWAImages                       |
|            | photos //NSArray image <uiimage></uiimage> |
| completion | TTGCShareCompleteHandler                   |

```
// share invite link to whatsApp
- (IBAction)whatsAppShare: (id) sender {
   TTGCSocialWAInvite *obj = [[TTGCSocialWAInvite alloc] init];
   obj.contentString = @"play games";
```

```
[[TTkGameManager defaultManager] whatsAppShareMessage:obj completion:^(BOOL success,
NSError * _Nullable error) {
      if (success) {
       } else {
          if (error) {
              TTGCHUD_HINT([error.userInfo objectForKey:@"errorMsg"]);
   }];
// share picture to whatsApp
- (IBAction)wapic: (id) sender {
   TTGCSocialWAImages *obj = [[TTGCSocialWAImages alloc] init];
   UIImage *image = [UIImage imageNamed:@"totokgame_logo_1024"];
   obj.photos = @[image];
   [[TTkGameManager defaultManager] whatsAppShareMessage:obj completion:^(BOOL success,
NSError * Nullable error) {
      if (success) {
      } else {
          if (error) {
              TTGCHUD HINT([error.userInfo objectForKey:@"errorMsg"]);
      }
   }];
```

## 8. API: Push

## 8.1 Register

in AppDelegate:

```
- (void) application: (UIApplication *)application

didRegisterForRemoteNotificationsWithDeviceToken: (NSData *)deviceToken {
```

```
[[TTkGameManager defaultManager] registerDeviceToken:deviceToken];
}
```

## 8.2 Receive Push Message

| Method   | getRemoteNotification             |
|----------|-----------------------------------|
| Callback | TTGCNotificationCompletionHandler |

```
- (void)recieveMessage {
    [[TTkGameManager defaultManager] getRemoteNotification:^(id _Nullable result,

NSError * _Nullable error) {
        //Receive a push message and can customize the event based on the message.
        //Do something ...
}];
}
```