



LINE WORKER

USER GUIDE

We strive to provide the best service as we can, if you have any questions or suggestions, please contact us!
Thank you!

SgLib Games

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1 INTRODUCTION



You're a line worker in a hell factory. Your job is to distinguish faulty products from good ones while they're moving constantly on a line. Keep the quality products and discard the bad ones by tapping right or left. Too many mistakes and you're fired! Line Worker is a funny, relaxing hyper casual game perfect for people of all ages!

This game is ready for release out-of-the-box. Everything just works. It is also flexible and customizable. Some highlights:

- Addictive one-touch gameplay
- Free-to-use assets (fonts, sounds, music, model, etc.)
- Optimized for mobile

Most importantly, when equipped with the **Easy Mobile** plugin, this template can form a truly full-featured game that is ready for release. Easy Mobile is a comprehensive, cross-platform package that provides most of desired features of mobile games:

- Support for AdColony, AdMob, Chartboost, Heyzap and UnityAds
- In-app purchasing

- Support for Game Center (iOS) and Google Play Games Services (Android) for leaderboards and achievements
- Recording gameplay and exporting GIF images
- Sharing to social networks (PNG or GIF images)
- Push notification using OneSignal service
- Native rating request popup (rate my app)

2 GETTING STARTED

2.1 Enter app information

The project contains a game object called AppInfo where you can fill in important app-related metadata like AppStore Id and Bundle Id. These values will be used for features like Rate Us button and opening Facebook or Twitter page.

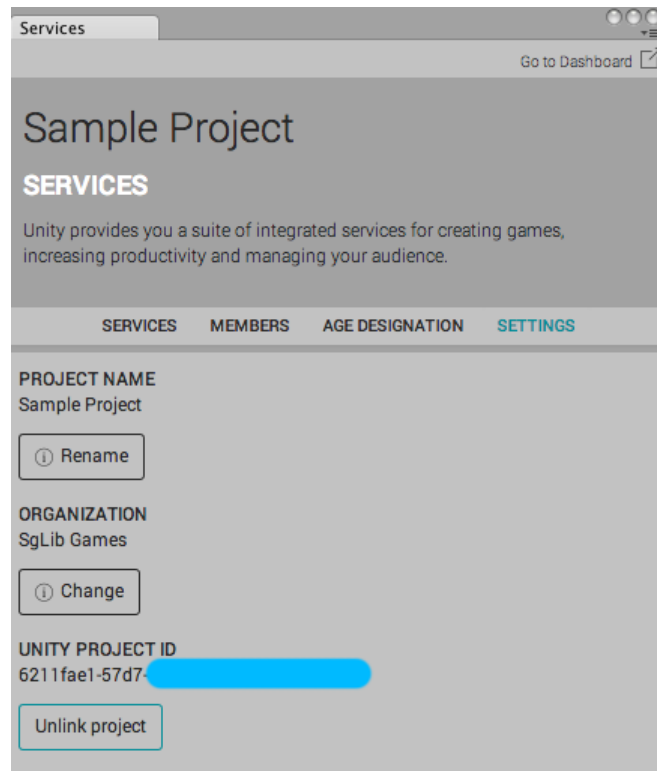


Field	Value
APP_NAME	[YOUR_APP_NAME]
APPSTORE_ID	[YOUR_APPSTORE_ID]
BUNDLE_ID	[YOUR_BUNDLE_ID]
APPSTORE_HOMEPAGE	[YOUR_APPSTORE_PUBLISHER_LINK]
PLAYSTORE_HOMEPAGE	[YOUR_GOOGLEPLAY_PUBLISHER_NAME]
FACEBOOK_ID	[YOUR_FACEBOOK_PAGE_ID]
TWITTER_NAME	[YOUR_TWITTER_PAGE_NAME]
SUPPORT_EMAIL	[YOUR_SUPPORT_EMAIL]

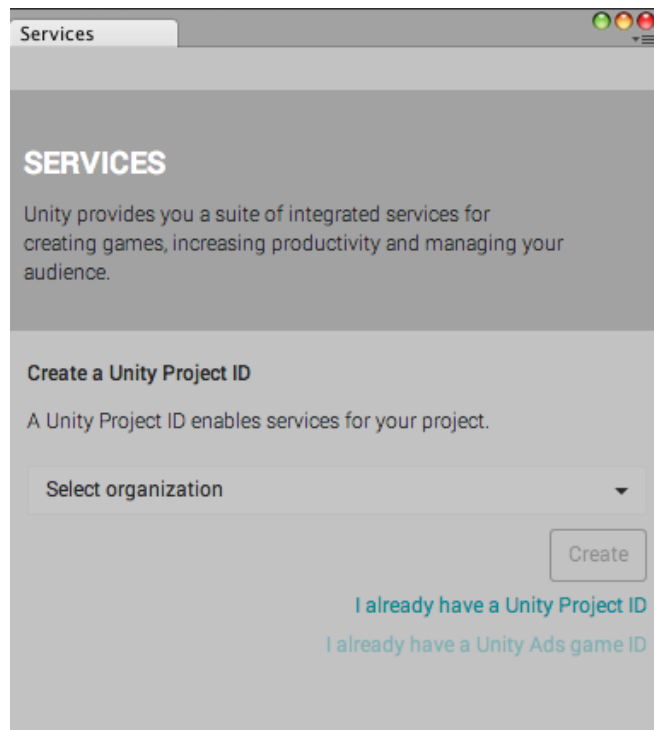
2.2 Link the game to your Unity project

When developing this template, we normally need to link it to our own Unity project for testing, therefore you may need to unlink it from our project and link it to your own one, if you're going to use Unity services (e.g. if you want to enable premium features of this template, you'll need to use Unity IAP service). To unlink the project:

- Select Window -> Unity Services
- Select SETTINGS tab
- Click Unlink Project button



Now you can create a new project for the game.



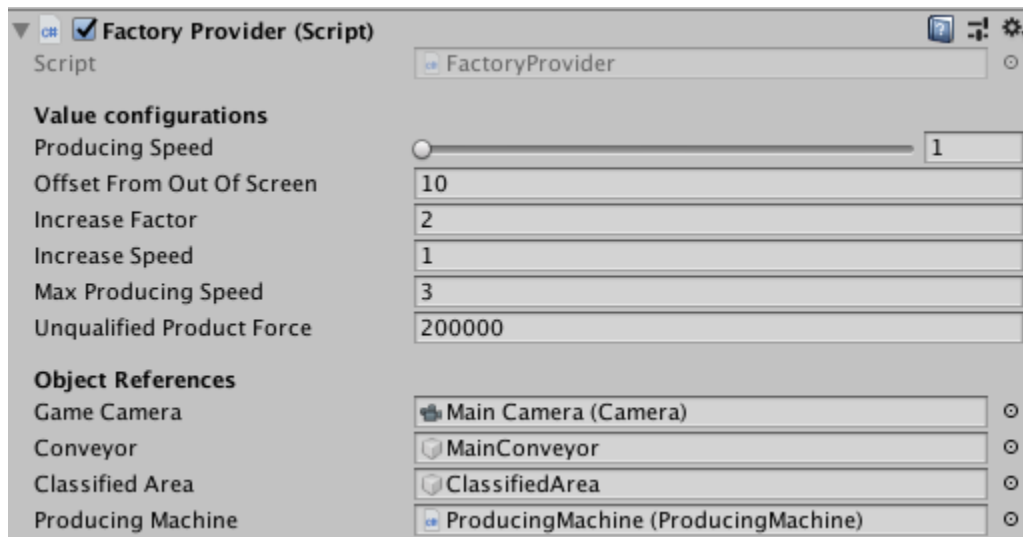
Now your game is linked to your own Unity project and is ready to use Unity services.

3 TEMPLATE CUSTOMIZATION

3.1 Gameplay tweaking

3.1.1 *FactoryProvider*

Important object in the hierarchy is the object named *FactoryProvider*, which holds the *FactoryProvider* component.

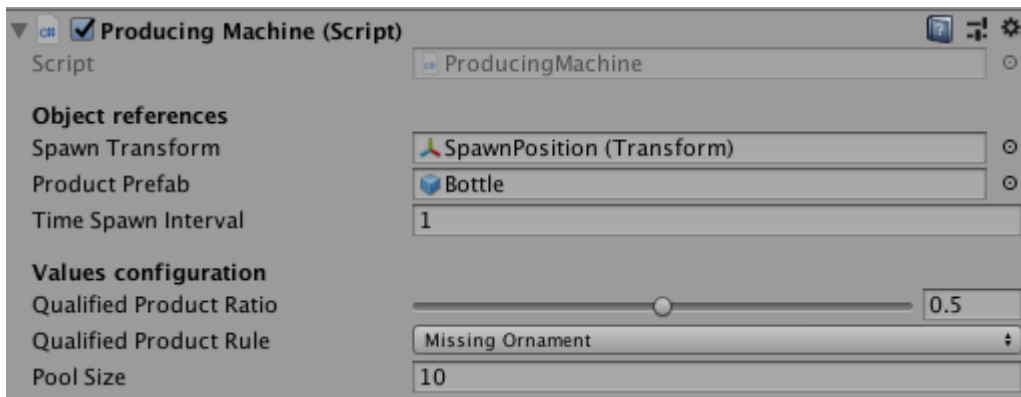


You can tweak the gameplay by modifying following variables:

- *ProducingSpeed*: original producing speed.
- *IncreaseFactor*: this is boost speed.
- *IncreaseSpeed*: the producing speed will be increased everytime the worker classified, this is speed of increasing process .
- *MaxProducingSpeed*: the producing speed can't cross this threshold.

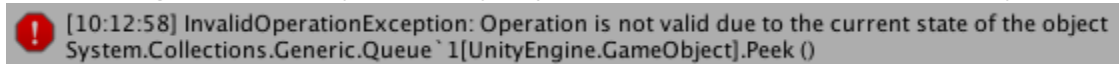
3.1.2 *ProducingMachine*

Another important object in the hierarchy is the object named *ProducingMachine*, which holds the *ProducingMachine* component.



- *TimeSpawnInterval*: the interval between two time spawn.
- *QualifiedProductRatio*: ratio of qualified product.
- *PoolSize*: size of pool.

*Note: when you increase TimeSpawnInterval value maybe have some error like below image, to fix this problem, you just increase the PoolSize value up.



3.2 Daily reward feature

This template has a built-in daily reward system in which the user will be rewarded with coins every predefined interval of time. This is an effective way to increase user engagement and retention for your game. You can configure this feature from the *DailyRewardController* object in the hierarchy.



- *Disable*: check to disable this feature
- *Reward Interval Hours, Minutes and Seconds*: the amount of time until the

next reward

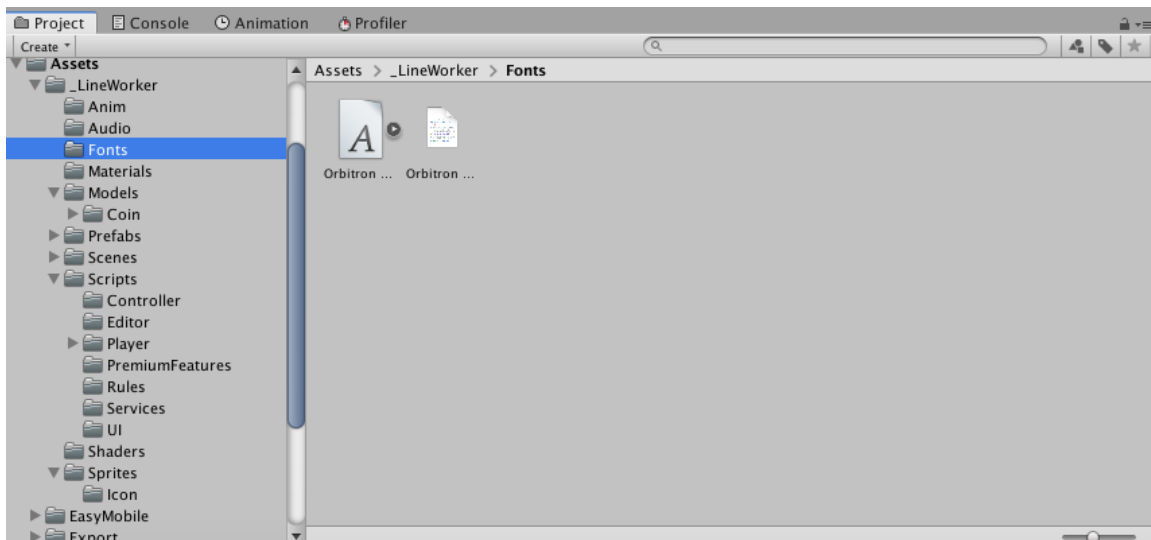
- *Min Reward Value & Max Reward Value*: the actual rewarded coins will be randomized between these two values

3.3 Customizing UI

All sprites used in this game (for buttons and other UI components) are located under the *Sprites* folder. You can replace them with your own sprites to modify the UI as you like.

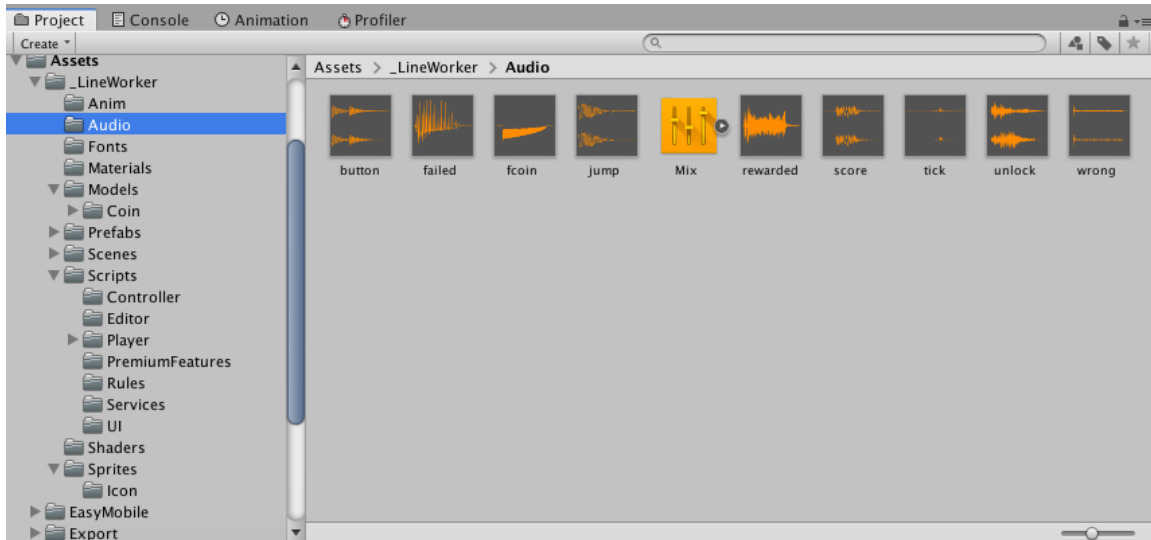


All fonts used in this game are free-to-use in commercial projects. Fonts are located under the *Fonts* folder together with appropriate license files.

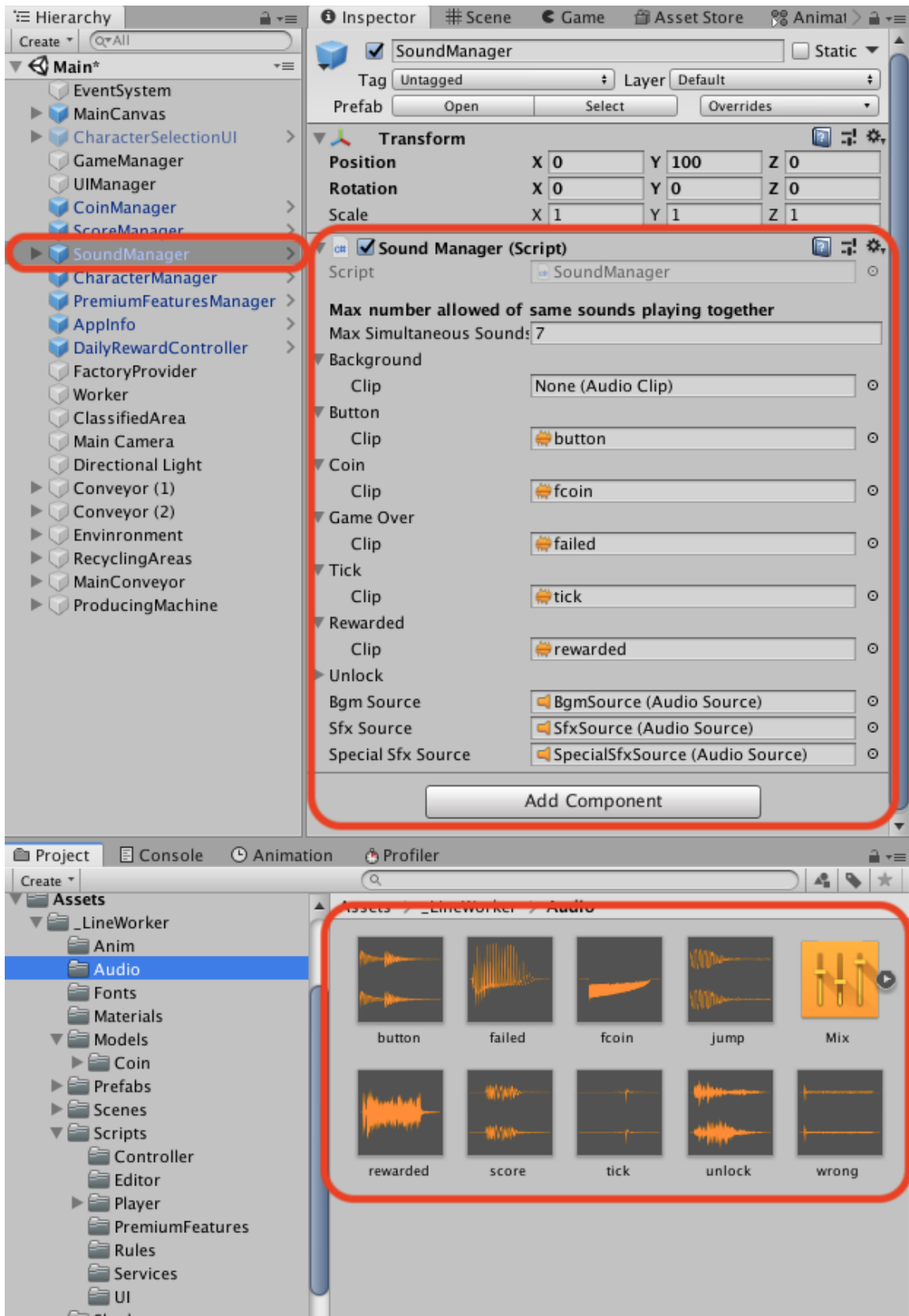


3.4 Sounds

All sounds included in this game are free-to-use in commercial projects and are located under the *Audio* folder.



This game features a *SoundManager* class to manage activities in game like playing music or mute/unmute sounds. If you want to replace sounds in this game, simply drag and drop new sounds to appropriate slots in the *SoundManager* component.

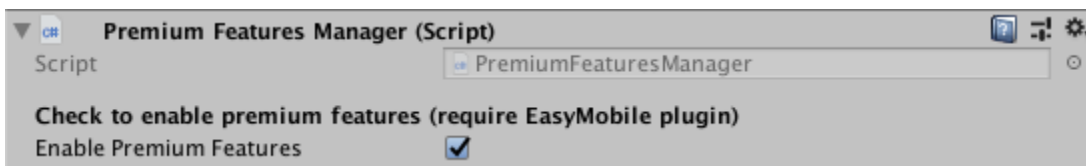


4 ENABLING PREMIUM FEATURES

This section provides a guide on configuring premium features for your game. As these features are implemented using Easy Mobile plugin, this guide is intended to be used alongside Easy Mobile's official user guide. Therefore, it is strongly recommended that you also read through that guide to familiarize yourself with the plugin. You can access the online user guide from menu *Window > Easy Mobile > Online Documentation* (after Easy Mobile is imported to the project).

4.1 Before You Begin

- In the Main scene's hierarchy, there's an object named *PremiumFeaturesManager* which contains all the relevant components from which you can configure how premium features behave in your game.
- Make sure the *EnablePremiumFeatures* option in the *PremiumFeaturesController* object is checked.

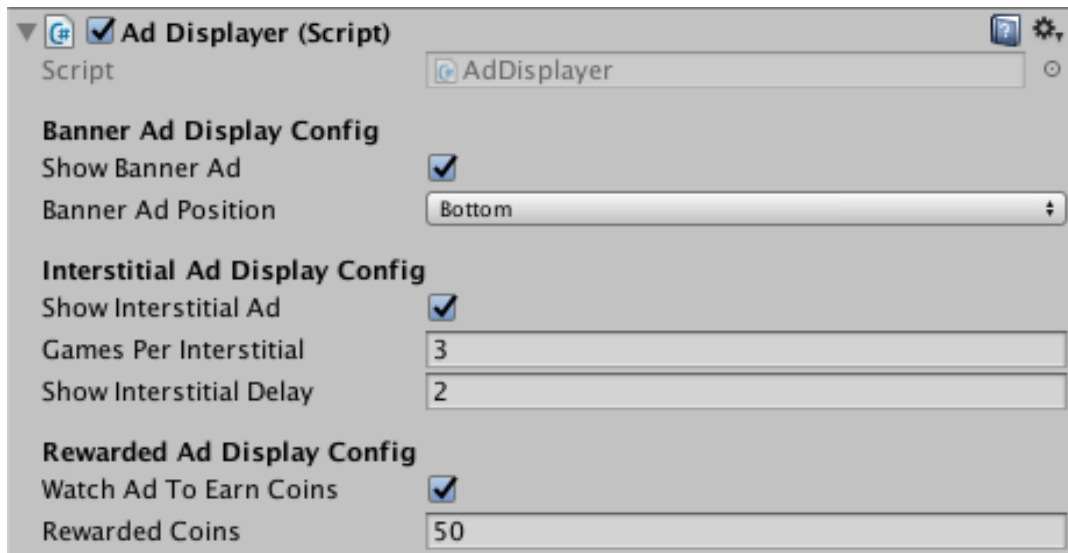


- The settings interface of Easy Mobile can be opened via menu *Window > Easy Mobile > Settings*, this is the only place to go to configure this plugin.
- Note that you won't need to write a single line of integration code for Easy Mobile to work, as the integration was done beforehand, you only need to configure the plugin in the editor (that means you can ignore all the Scripting sections in Easy Mobile user guide if you wish to).

4.2 Advertising

4.2.1 Template-specific setup

The *PremiumFeatureManager* object contains a component named *AdDisplayer* which is responsible for all ads displaying activities in the game. There you can configure how ads should be served in your game.



Banner ads are configured in the **Banner Ad Display Config** section.

- *Show Banner Ad*: whether to show a banner ad in game
- *Banner Ad Position*: which position the banner should be placed

Interstitial ads are configured in the **Interstitial Ad Display Config** section.


- *Show interstitial ad*: whether to show interstitial ads when game over
- *Games Per Interstitial*: how many games to be played before showing ad
- *Show Interstitial Delay*: how many seconds after game over that ad is shown

Rewarded ads are configured in the **Rewarded Ad Display Config** section.


- *Watch Ad To Earn Coins*: whether to allow the user to watch an ad to earn extra coins
- *Rewarded Coins*: how many coins should be awarded after watching an ad



4.2.2 Easy Mobile setup

Open Easy Mobile's settings interface to start configuring its Advertising module (see its user guide for more information). With Easy Mobile you'll have support for AdColony, AdMob, Chartboost, Heyzap (with mediation) and Unity Ads. You can use multiple ad networks at once and have different configurations for iOS and Android. Below is the settings interface of the Advertising module.




EASY MOBILE Basic
 Version 2.2.4

☐ Addressable

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ADVERTISING




The Advertising module offers a unified API for a wide range of ad networks and other features that enable fast and flexible ads integration for your game.


AUTO AD-LOADING


Auto Ad-Loading Mode Load All Defined Placements

Ad Checking Interval 10

Ad Loading Interval 20


DEFAULT AD NETWORKS


▼ iOS

Banner Ad Network Ad Mob

Interstitial Ad Network Ad Mob



Rewarded Ad Network Ad Mob


▼ Android

Banner Ad Network Ad Mob



Interstitial Ad Network Ad Mob


Rewarded Ad Network Ad Mob


ADCOLONY


 AdColony plugin not found. Please download and import it to show ads from AdColony.

Download AdColony Plugin


ADMOB


 Google Mobile Ads (AdMob) plugin was imported.

Download Google Mobile Ads Plugin

App ID

▼ App ID

iOS ID ca-app-pub-6355070686471133~6674909601

Android ID ca-app-pub-6355070686471133~2244710002

Default Placement

You can setup the module in just a few steps as below. Please see the Advertising section in Easy Mobile's user guide for detailed instructions on each step.

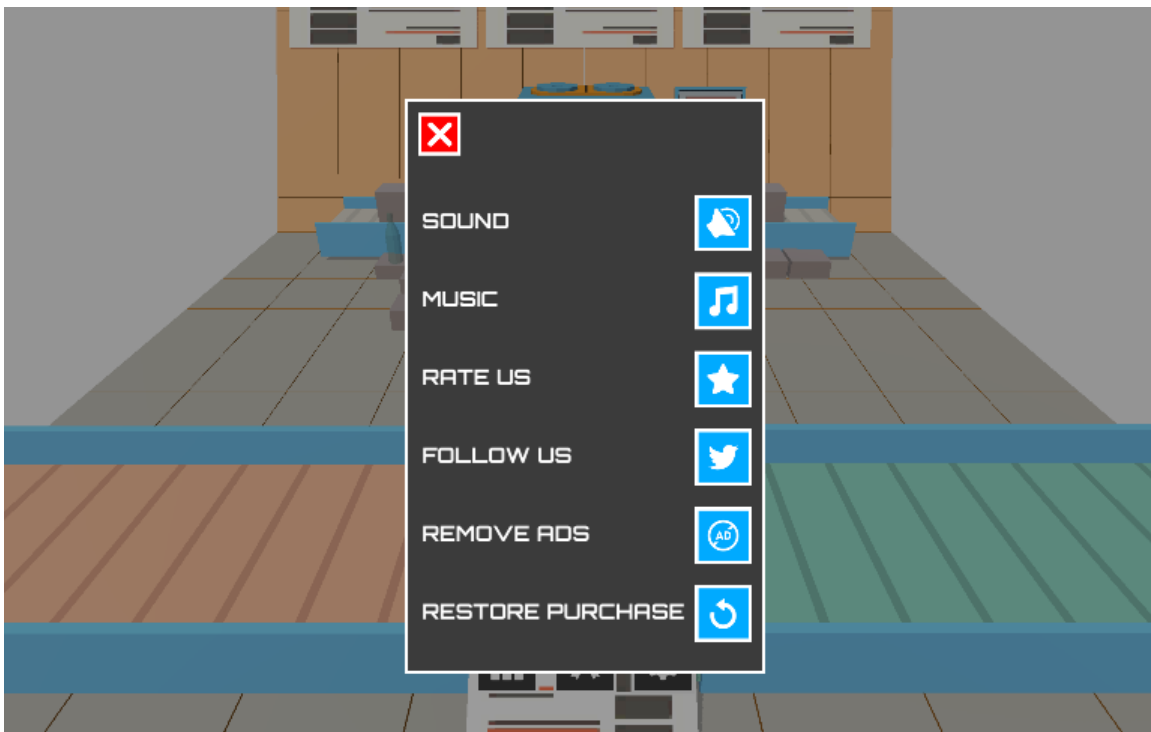
- Setup the ad networks you want to use, including importing the required plugins, please see Easy Mobile user guide for more information
- Enable auto ad-loading feature: simply leave the *Auto-Load Default Ads* option as checked and other parameters as default, the plugin will automatically load ads in the background
- Select default ad networks for each platform: choose your preferred network for each type of ad on each platform

That's it! Now your game is ready for showing ads!

4.3 In-App Purchasing

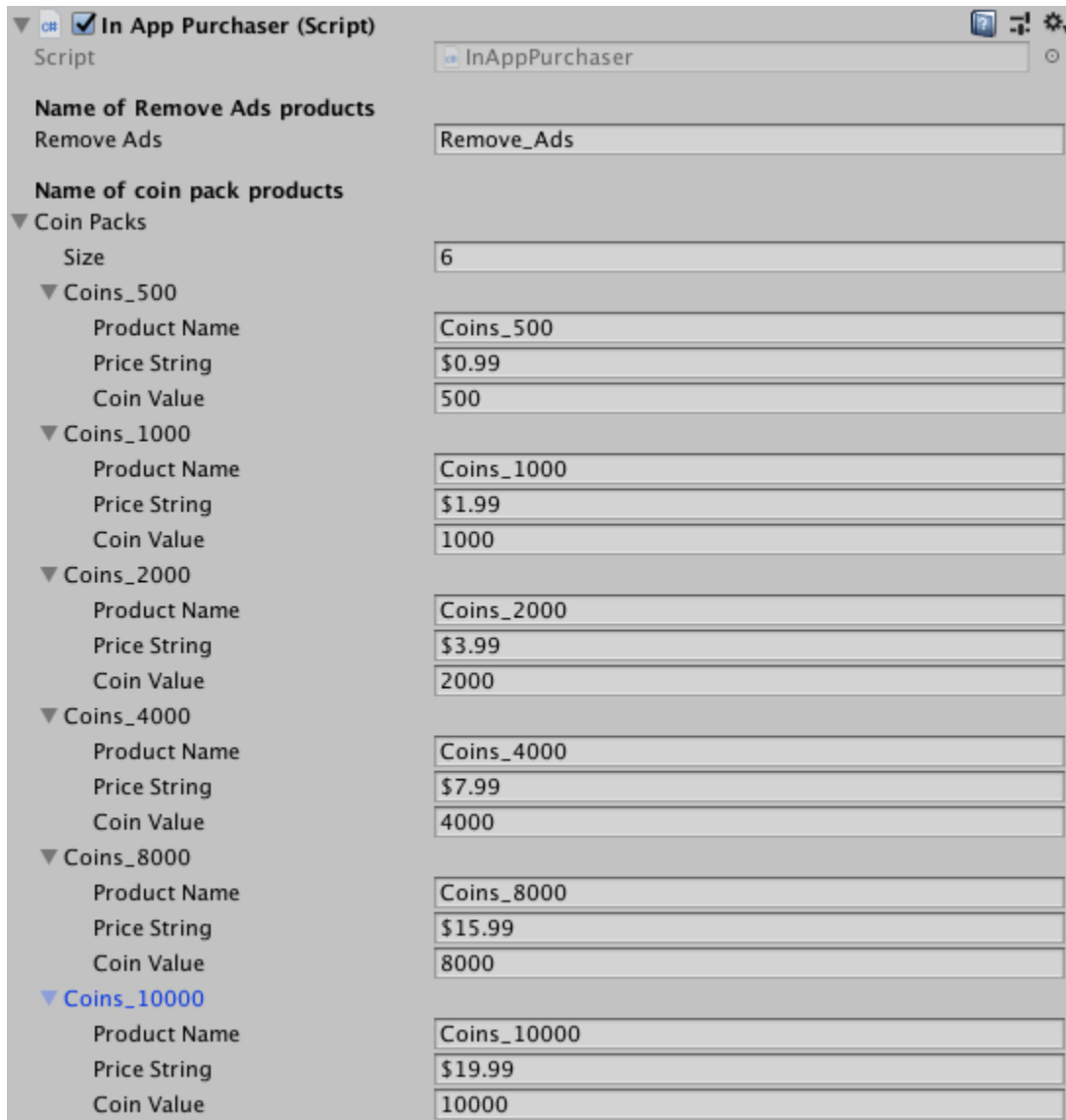
4.3.1 Template-specific setup

The built-in in-app purchases of this template include a *Remove Ads* button, and several coin packs. You can modify existing products and add more coin packs if you like. There's also one *Restore Purchase* button as required on iOS.



The PremiumFeaturesManager object contains a component named

InAppPurchaser which manages all the in-app purchasing activities in this game.



In App Purchaser (Script)

Script: InAppPurchaser

Name of Remove Ads products

Remove Ads: Remove_Ads

Name of coin pack products

▼ **Coin Packs**

Size: 6

▼ **Coins_500**

Product Name: Coins_500

Price String: \$0.99

Coin Value: 500

▼ **Coins_1000**

Product Name: Coins_1000

Price String: \$1.99

Coin Value: 1000

▼ **Coins_2000**

Product Name: Coins_2000

Price String: \$3.99

Coin Value: 2000

▼ **Coins_4000**

Product Name: Coins_4000

Price String: \$7.99

Coin Value: 4000

▼ **Coins_8000**

Product Name: Coins_8000

Price String: \$15.99

Coin Value: 8000

▼ **Coins_10000**

Product Name: Coins_10000

Price String: \$19.99

Coin Value: 10000

Here you can modify the product definitions including the displayed name, price or coin value of the coin packs. To add more coin packs, simply increase the *CoinPacks* array size and enter necessary information for your new packs. The built-in store UI will automatically update to your changes in the product list without you having to do anything.

4.3.2 *Easy Mobile setup*

Setting up the In-App Purchasing module of Easy Mobile includes the following steps. Please see the In-App Purchasing section in Easy Mobile's user guide for detailed instructions on each step.


- a. Enable Unity In-App Purchasing service
- b. Select target store if you're on Android
- c. Enable receipt validation if you wish
- d. Declare the products

Below is the settings interface of the In-App Purchasing module of Easy Mobile.


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IN-APP PURCHASING
☒

The In-App Purchasing module leverages Unity IAP to help you quickly setup and sell digital goods in your game.


TARGET ANDROID STORE
^

Target Android Store
 Google Play


APPLE ASK-TO-BUY
^

Simulate Ask-To-Buy ☐


APPLE PROMOTIONAL PURCHASES
^

Intercept Promotional Purchases ☐



RECEIPT VALIDATION
^

Unity IAP offers local receipt validation for extra security. Apple stores and Google Play store only.

Validate Apple Receipt ☐

Validate Google Play Receipt ☐


 Please go to Window > Unity IAP > IAP Receipt Validation Obfuscator and create obfuscated secrets to enable receipt validation for Apple stores and Google Play store. Note that you don't need to provide a Google Play public key if you're only targeting Apple stores.


PRODUCTS
^

▶ 7 Products

Add New Product


CONSTANTS GENERATION
^

Generate the static class EasyMobile.EM_IAPConstants that contains the constants of product names. Remember to regenerate if you make changes to these names.

Generate Constants Class

Note that the products declared with Easy Mobile must have names that match

with the ones you have in the aforementioned *InAppPurchaser* component. Also note that *Remove Ads* is a non-consumable product, while the coin packs must be consumable.



4.3.3 Create the products for targeted stores

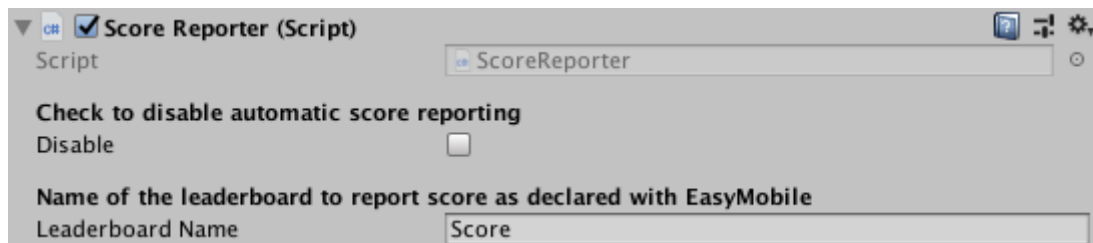
That last step in configuring the in-app purchasing feature is to create products for your targeted stores (e.g. Google Play and Apple App Store). Make sure the product ID, product type and price match the ones you have in your game.

4.4 Game Service

4.4.1 Template-specific setup

This template has a built-in leaderboard for ranking users' scores, and many achievements. It works with Game Center (iOS) and Google Play Game Services (Android).

User's score will be submitted automatically when game over by a component named *ScoreReporter*, which is also attached to PremiumFeaturesManager object. There you can change the leaderboard name or even disable automatic score reporting altogether.



Achievements will be unlocked automatically when the user reaches a certain

score. The achievement unlocking is handled by the component named *AutoAchievementUnlocker*. In this component, you can modify existing achievements and add or remove achievements. You can also disable the automatic achievement unlocking feature if you wish.

Achievement Unlocker (Script)

Script: AchievementUnlocker

Check to disable automatic achievement unlocking

Disable: ☐

List of achievements to unlock

▼ Achievements

Size	Achievement Name	Score To Unlock
10	Score_10	10
10	Score_20	20
10	Score_30	30
10	Score_40	40
10	Score_50	50
10	Score_60	60
10	Score_70	70
10	Score_80	80
10	Score_90	90
10	Score_100	100

4.4.2 Setup for your targeted stores


The next step is to create the required leaderboard and achievements for your targeted stores (i.e. in iTunes Connect for App Store and the Developer Console for Google Play). Take note of their IDs for use in the next step.

4.4.3 Easy Mobile setup

Setting up the Game Service module of Easy Mobile includes the following steps. Please see the Game Service section in Easy Mobile's user guide for detailed instructions on each step.

- a. Import Google Play Games plugin for Unity and setup it if you're targeting Android
- b. Enable the automatic initialization feature: just leave everything under the **AUTO-INIT CONFIG** section as default
- c. Declare the leaderboards and achievements

Below is the settings interface of the Game Service module of Easy Mobile.


EASY MOBILE Basic
 Version 2.2.4

☐ Addressable

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GOOGLE PLAY GAMES SETUP

GPGS Debug Log ☐
 GPGS Popup Gravity

Web App Client ID (Optional)
 The web app client ID is needed to access the user's ID token and call other APIs on behalf of the user. It is not required for Game Services. Enter your oauth2 client ID below. To obtain this ID, generate a web linked app in Developer Console.
 Example: 123456789012-abcdefghijklm.apps.googleusercontent.com
 Web Client Id

Android XML Resources
 Paste in the Android XML Resources from the Play Console and hit the Setup button.

```

<?xml version="1.0" encoding="utf-8"?>
<!--
Google Play game services IDs.
Save this file as res/values/games-ids.xml in your project.
-->
<resources>
  <string name="app_id">104: /string>
  <string name="package_name">com.sglib.demogame</string>
  <string name="achievement_score_10">CgkI3tzAhK8eEAIQEg</string>
  <string name="achievement_score_20">CgkI3tzAhK8eEAIQAQ</string>
  <string name="achievement_score_30">CgkI3tzAhK8eEAIQEw</string>
  <string name="achievement_score_40">CgkI3tzAhK8eEAIQAg</string>

```

 Setup Google Play Games

AUTO INITIALIZATION

Auto Init ☒
 Auto Init Delay
 [Android] Max Login Requests

LEADERBOARDS

▶ 1 Leaderboards
 Add New Leaderboard

ACHIEVEMENTS

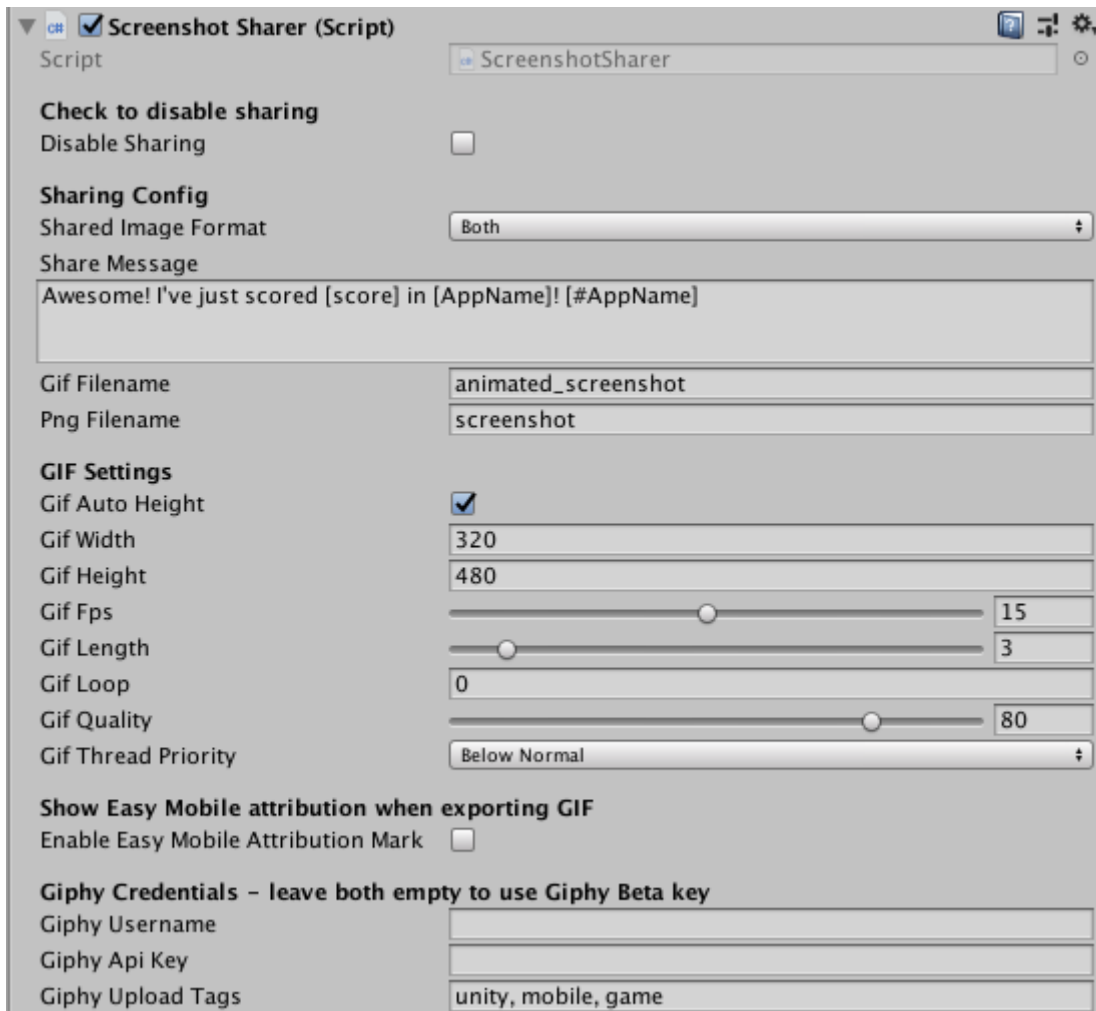
▶ 10 Achievements
 Add New Achievement

CONSTANTS GENERATION

Note that you must declare the leaderboard and achievements with the same names as the ones you have in the *AutoScoreReporter* and *AutoAchievementUnlocker* components. Also their IDs must match the ones you created in iTunes Connect and Google Play Developer Console.

4.5 Native Sharing

This template has a Share button that allows the user to share a screenshot of the gameplay (in animated GIF or static PNG format) to social networks using the native sharing functionality. This activity is managed by a component named *ScreenshotSharer*, which is also attached to the *PremiumFeaturesManager* object. When a new game starts, this component will setup and start a recorder to record the screen content, and stop the recorder when the game ends. The recorder automatically stores a few last seconds of the recording, and discards the rest. The recorded clip will then be exported to a GIF image, then uploaded to [Giphy](#), and finally its URL can be shared and played automatically on major social networks including Facebook and Twitter.



Here you can configure the sharing feature.

- *Disable Sharing*: disable this feature
- *Share Image Format*: you can share GIF or PNG image, or both
- *Share Message*: the default sharing message, note that [score] will be automatically replaced by actual score, and [AppName] will be replaced by the app name declared in AppInfo
- *Gif Filename*: filename to store the generated GIF image
- *Png Filename*: filename to store the captured PNG image

In the **GIF Settings** section, you can configure the generation of the GIF image.

- *Gif Auto Height*: automatically calculate the image height based on the specified width and the screen aspect ratio
- *Gif Width*: the image width

- *Gif Height*: the image height, will be overwritten if *GifAutoHeight* is enabled
- *Gif Fps*: frame per second of the GIF image
- *Gif Length*: the length of the GIF in seconds, as mentioned earlier, the recorder only keeps this many seconds of the recording, and discards old content
- *Gif Loop*: looping mode of the GIF; 0 means loop indefinitely, -1 means no loop, > 0 means loop a set number of times
- *Gif Quality*: quality setting value in range [1,100], bigger values mean better quality but slightly longer generation time; 80 is generally a good value in terms of quality-time balance
- *Gif Thread Priority*: the priority of the GIF generation thread
- *Enable Easy Mobile Attribution Mark*: whether to display Easy Mobile attribution when generating GIF images

You can also control the Giphy uploading activity with the following parameters:

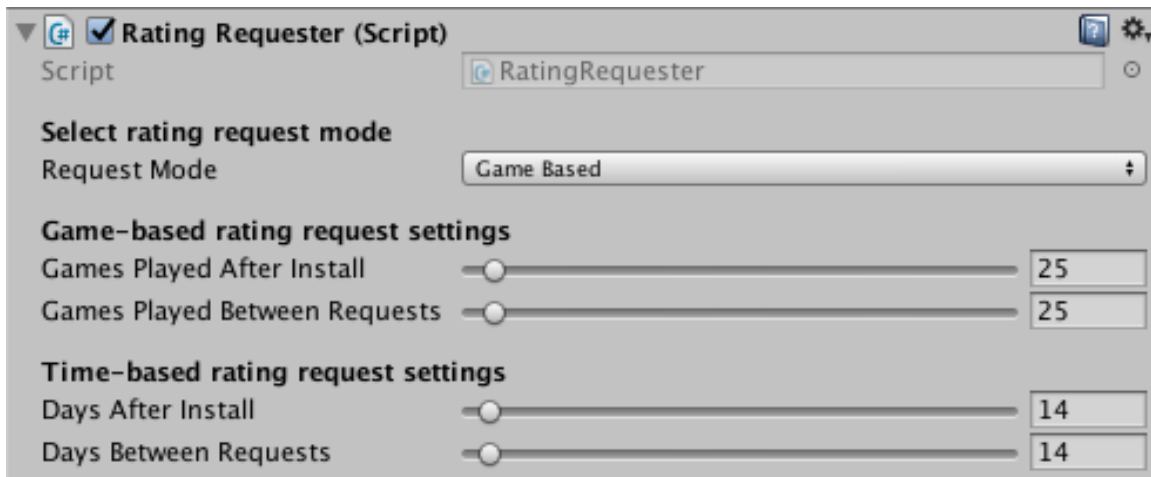
- *Giphy Username & Giphy Api Key*: provide these values if you want to upload the GIF image to your own Giphy channel; otherwise leave them empty to use the [Giphy beta key](#)
- *Giphy Upload Tags*: comma-delimited list of tags of the uploaded image

Note that you need to enable the *External Write Permission* for this feature to function properly on Android. Please see the Native Sharing section in Easy Mobile user guide for detailed instructions on doing that.

4.6 Rating Request

This template employs the Rating Request feature of Easy Mobile, to show a rate-my-app popup when game over, if some certain conditions are met. The Rating Request feature of Easy Mobile allows us to show the built-in rating prompt on iOS (10.3+) and a native rating popup on Android. Please see the Rating Request section in Easy Mobile user guide for instructions on configuring the appearance and behavior of this popup.

You can set the conditions to show this rating popup using the *RatingRequester* component of the *PremiumFeaturesManager* object.



- *Request Mode*: whether to show the rating popup based on the number of games played (Game Based mode), or based on the time since the installation of the app (Time Based mode)

If you select *Game Based* mode, pay attention to these two variables:

- *Games Played After Install*: how many games should be played since the installation before a rating popup is shown
- *Game Played Between Requests*: how many games should be played since the last time a rating popup is shown (in case it was dismissed by the user) that a new popup can be shown

If you select *Time Based* mode, adjust these two variables:

- *Days After Install*: how many days after the installation that a rating popup is shown
- *Days Between Requests*: how many days since the last time a rating popup is shown that a new one can be shown

4.7 Push notification

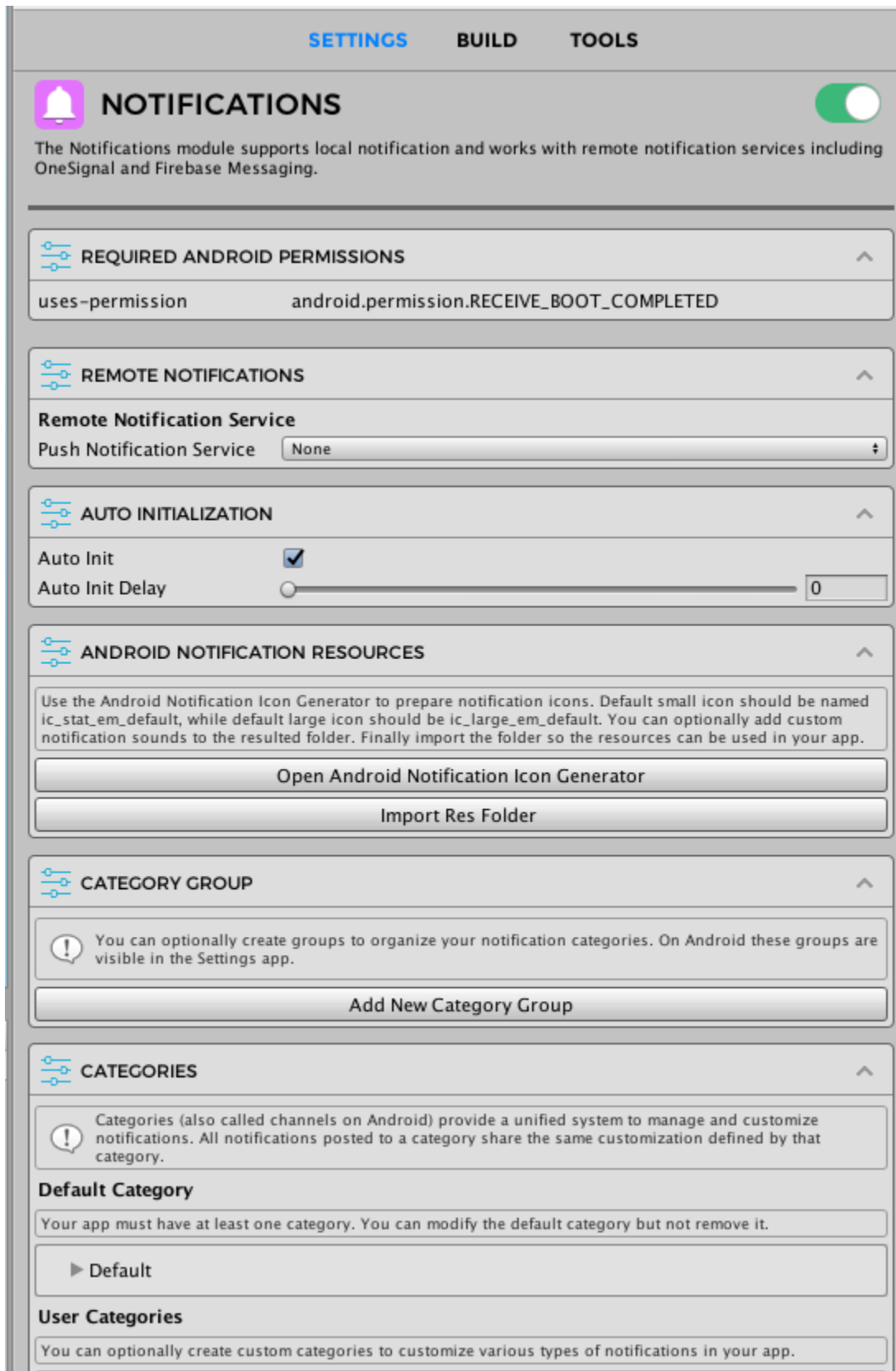
Enabling push notification for your app using OneSignal or Firebase service includes following steps. Please see the Notifications section in Easy Mobile user guide for detailed instructions on each step.

- Open the Notification tab in Easy Mobile's settings interface
- Import OneSignal or Firebase plugin
- Prepare your app for push notifications, e.g. enable the Push Notification capability for the provisioning profile on iOS (please see Easy Mobile user

guide as well as OneSignal/Firebase documentation for detailed instructions).

- Add your app to OneSignal/Firebase dashboard
- Enter your app ID to Easy Mobile settings in Unity

Below is the settings interface of the Notification module of Easy Mobile after importing OneSignal/Firebase plugin and you can enter your app ID.



That's it! You've just finished implemented premium features for your game!

THANK YOU AND GOOD LUCK WITH YOUR GAMES!