



EMOJI SLIDING DOWN TEMPLATE

USER GUIDE

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

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1 INTRODUCTION



Tap to rotate the clouds and keep the emoji's balance or it will fall down. **Emoji Sliding Down** is a simple yet addictive game that will keep the player entertained for hours.

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
- 12 built-in unlock-able cute characters.
- Free-to-use assets (fonts, sounds, music, model, etc.)
- Optimized for mobile

Most importantly, this template is *pre-integrated* with **Easy Mobile** plugin, making it a truly fully-featured game that is release-ready. Easy Mobile is a comprehensive, cross-platform package that provides most of desired features of mobile games:

- Support for AdMob, Chartboost, Heyzap and UnityAds
- In-app purchasing
- Support for Game Center (iOS) and Google Play Games Services (Android) for leaderboards and achievements (not used in this template)
- Sharing to social networks
- Push notification using OneSignal service

Being *pre-integrated* means this template is already configured to work with Easy Mobile. All you need is import Easy Mobile and do a few setup steps, and have all the above features readily implemented. You don't even have to write a single line of integration code!

* *This template does not include Easy Mobile.*

** *The use of Easy Mobile is totally optional: as long as it's not imported, all the integration code will automatically be excluded from compilation, so that no impact will be made on the game, which is fully functioning on its own.*

* **Acknowledgement:** The emoji sprites used in this game are [Design by Freepik](#).

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.

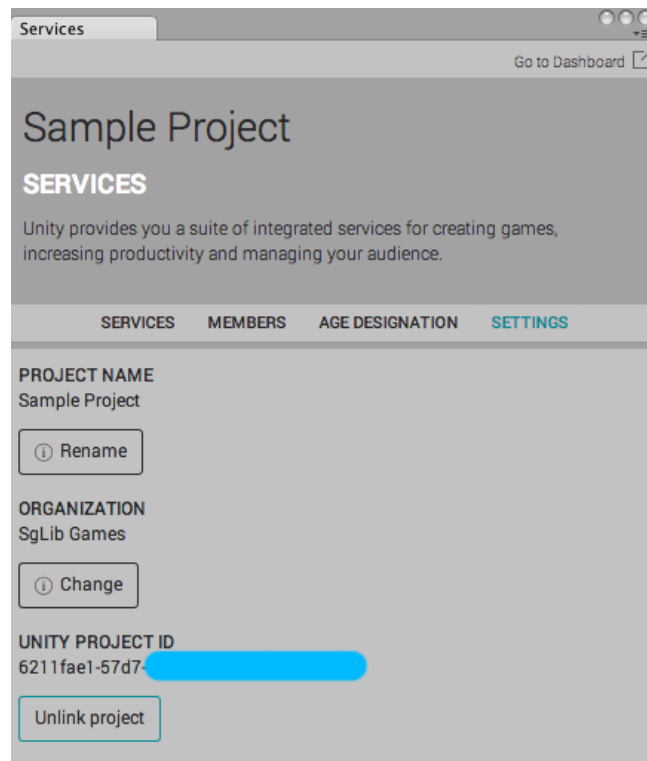


| Script | AppInfo |
|--------------------|----------------------------------|
| APP_NAME | [YOUR_APP_NAME] |
| APPSTORE_ID | [YOUR_APPSTORE_ID] |
| BUNDLE_ID | [YOUR_BUNDLE_ID] |
| APPSTORE_HOMEPAGE | [YOUR_APPSTORE_PUBLISHER_LINK] |
| PLAYSTORE_HOMEPAGE | [YOUR_GOOGLEPLAY_PUBLISHER_NAME] |
| FACEBOOK_ID | [YOUR_FACEBOOK_PAGE_ID] |
| TWITTER_NAME | [YOUR_TWITTER_PAGE_NAME] |
| SUPPORT_EMAIL | [YOUR_SUPPORT_EMAIL] |

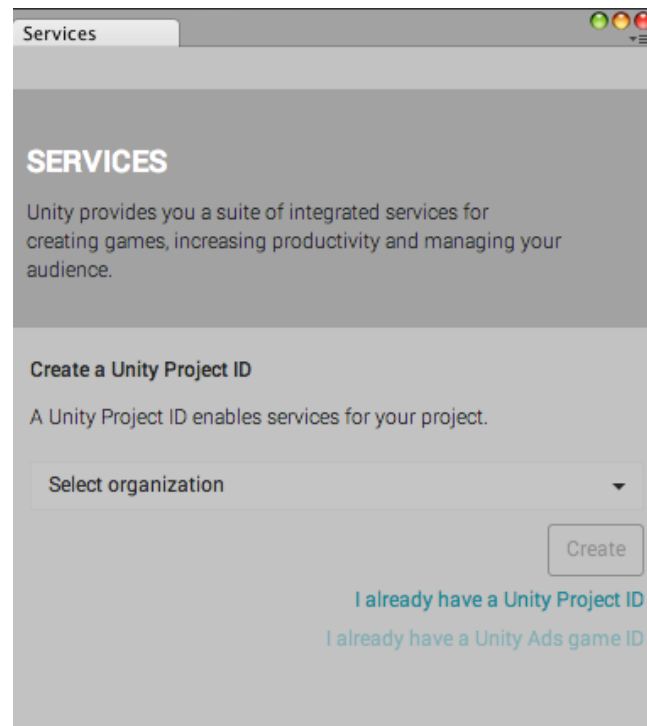
2.2 Link the game to your Unity project

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.

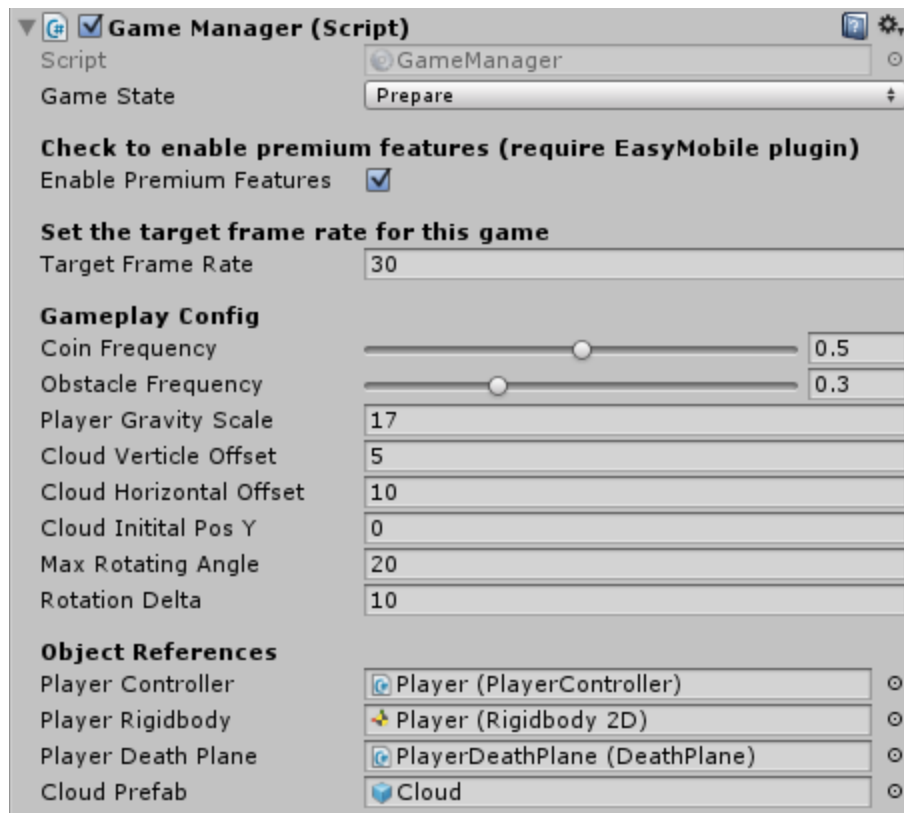
2.3 Testing Note

There are 2 scenes in this game, it should be run from scene *Main*.

3 TEMPLATE CUSTOMIZATION

3.1 Gameplay tweaking

Most of important gameplay parameters can be configured within the GameManager component which is attached to a game object also named GameManager in the hierarchy.



You can tweak the gameplay by modifying following variables:

- *TargetFrameRate*: set the target frame rate for the game.
- *CoinFrequency*: the appearance probability of coin.

If you want to intervene deeply into the operation of the game, you can modify following variables:

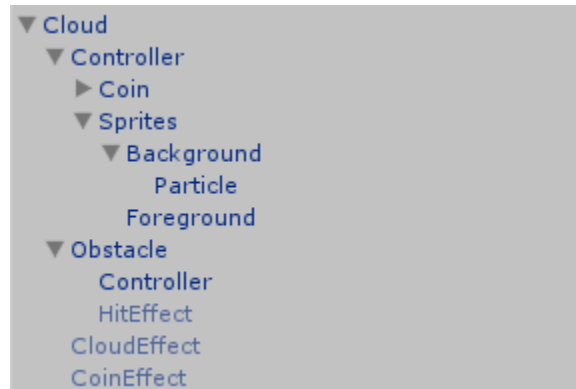
- *PlayerGravityScale*: determine how strong gravity applies to the player.
- *CloudVerticleOffset* & *CloudHorizontalOffset*: distance between clouds in y and x axis, relatively.
- *CloudInitialPosY*: the y-coordinate of the first cloud to be generated.
- *MaxRotatingAngle*: the max angle in degree that clouds rotate towards.

- RotationDelta: the angle in degree that clouds rotate in one frame.

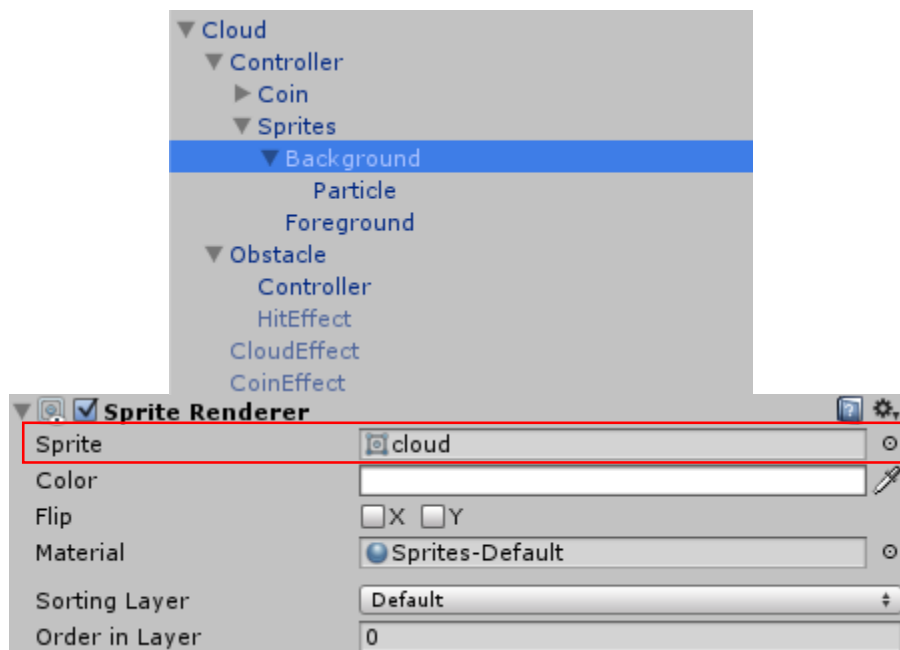
3.2 Changing clouds appearance

If you want to replace the built-in cloud with your own style, just follow these simple steps:

1. Look for the Cloud game object in the hierarchy.
2. Iterate through its children until you find Background and Foreground.



3. Select Background, then drag and drop your cloud background sprite into the Sprite slot of its SpriteRenderer component.



4. Do the same with Foreground.
5. Done.

3.3 Adding more characters

Out-of-the-box, this game is already packed with 12 characters, cute and ready to use! If you want to add more, follow these simple steps:

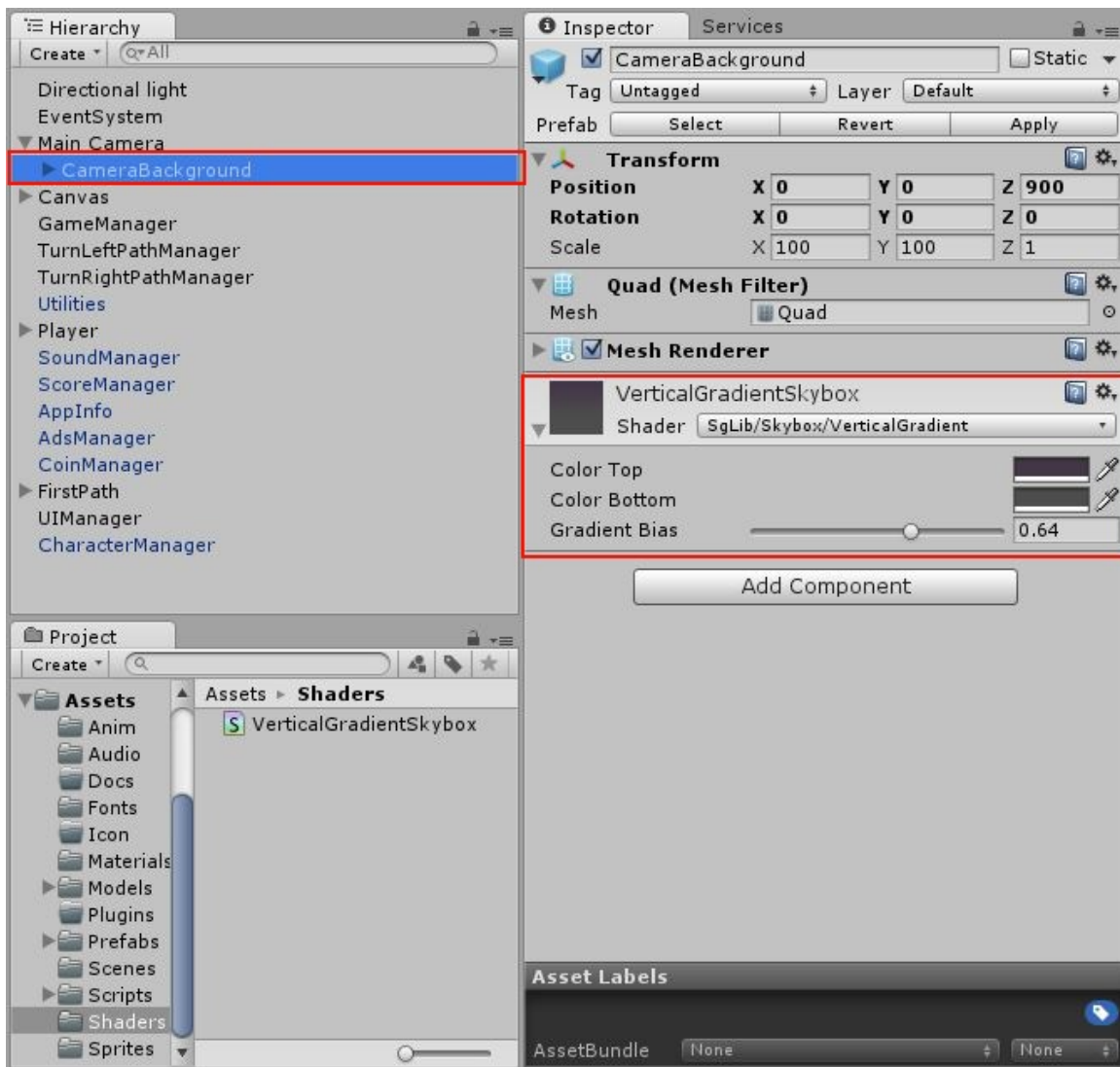
1. Create a character sprite.
2. Navigate to *Assets/Prefabs/Game/Characters* and duplicate one of the available character prefabs.
3. Change the name of the prefab to a preferred one.
4. Replace the *Sprite* in the *Character* component with your new sprite.
5. Enter the character name and price to the *Character* component. Check the *isFree* option if you want to give out this character for free (it will be automatically unlocked). **Important:** *the new character's name must not repeat any existing character name.*
6. Resize the character array in *CharacterManager* game object then drag the new character to it and hit *Apply* to save changes to its prefab.

Now the new character has been added and ready to use in game! You will see it listed in the *CharacterSelection* scene.

3.4 Changing background gradient

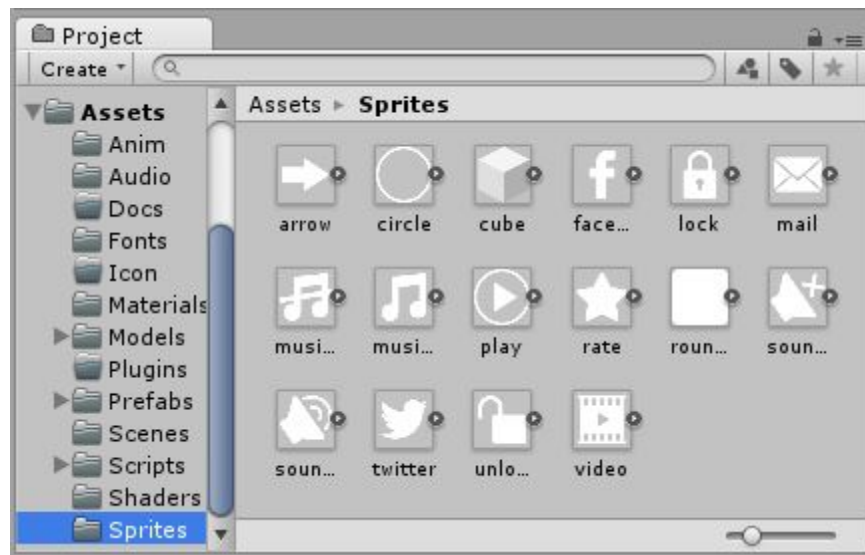
The gradient sky background in this game is implemented by a gradient shader call *VerticalGradientSkybox* located in the *Shaders* folder. It's an easy-to-use vertex/fragment shader. To modify the background gradient colors:

- Navigate to game object *CameraBackground* under *MainCamera*.
- Modify the gradient colors: *ColorTop*, *ColorBottom* and adjust the *GradientBias* until you're satisfied with the result.
- Hit *Apply* to save changes.

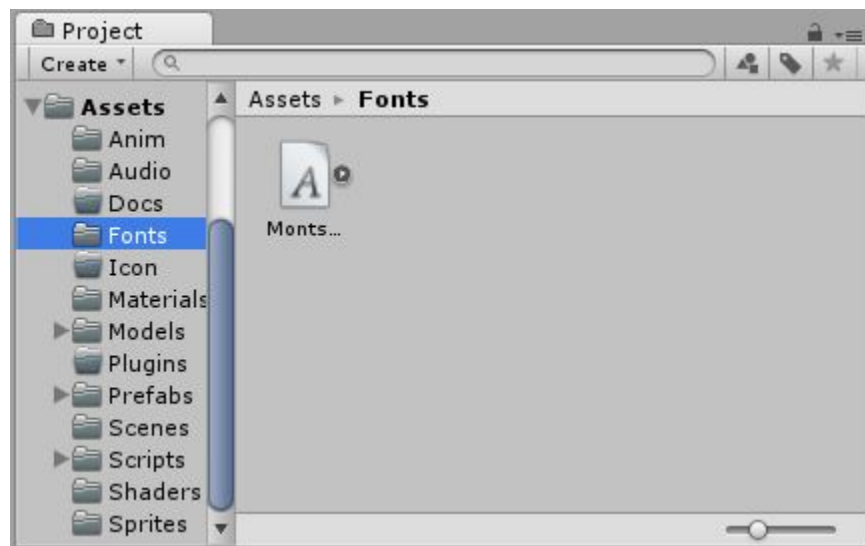


3.5 Customizing UI

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.

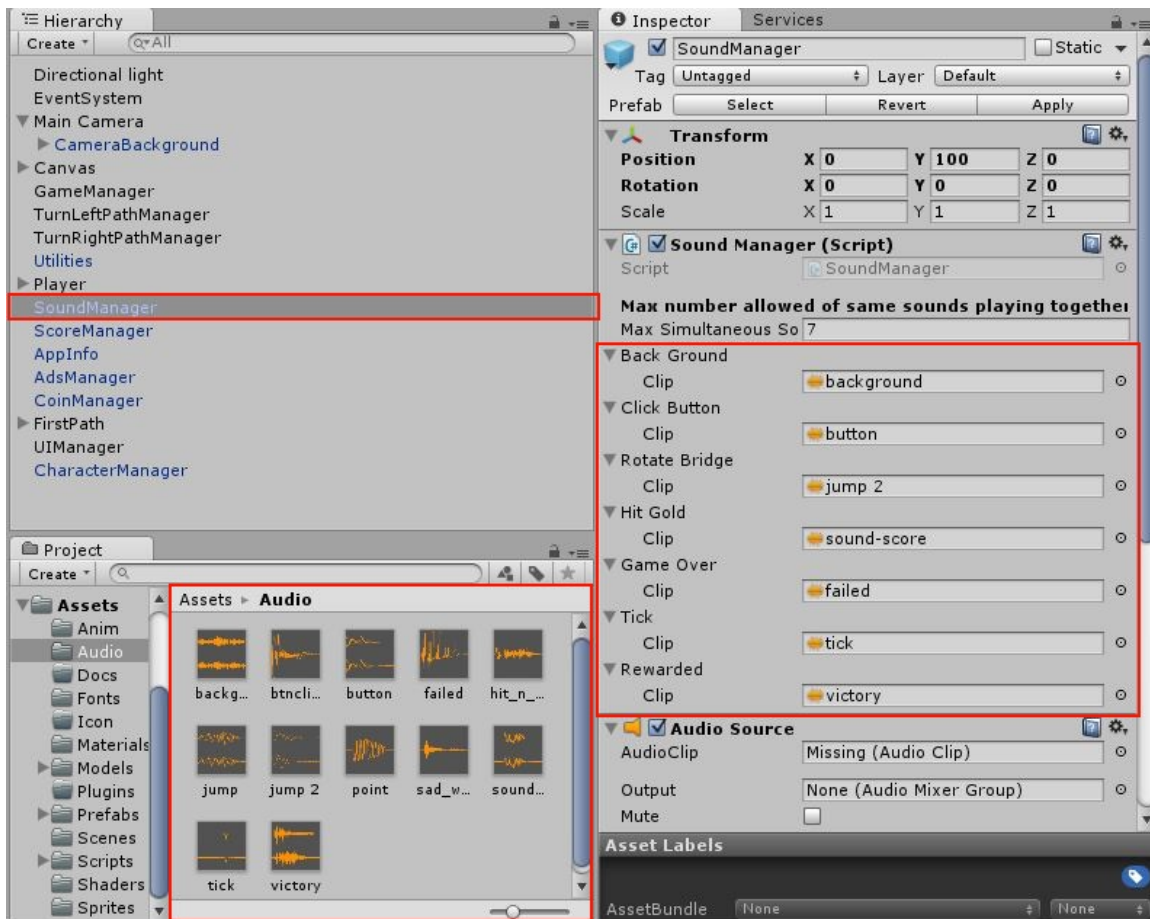


3.6 Sounds

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

Premium features include:

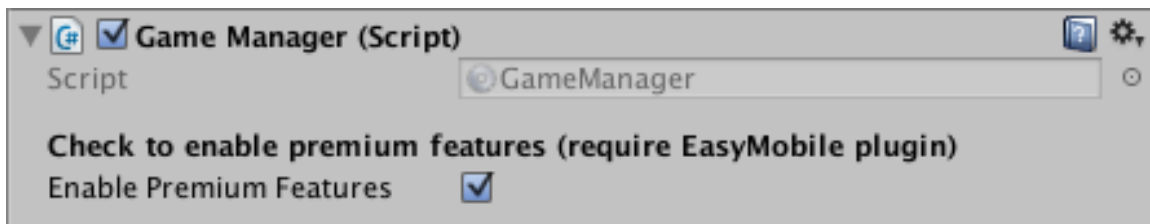
- Advertising
- In-app purchasing
- Leaderboards & achievements
- Sharing
- Push notifications

To enable premium features of this template, you need to download and import Easy Mobile plugin from <http://u3d.as/Dd2>.

This section provides a guide on configuring each feature for your game. If you're not familiar with using Easy Mobile, it is strongly recommended that you read through its user guide to familiarize yourself with the plugin.

4.1 Before You Begin

- Make sure the *EnablePremiumFeatures* option in the *GameManager* object is checked.

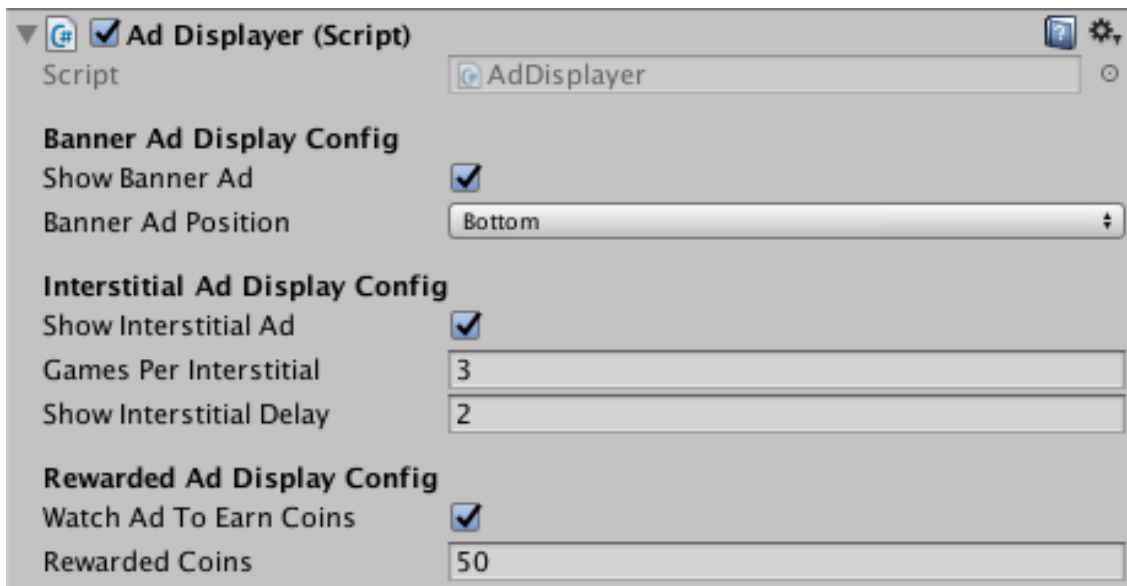


- Make sure there's an EasyMobile object in the *Main* scene's hierarchy, otherwise you can add it using the EasyMobile prefab at folder *Assets/EasyMobile*. It is necessary for the plugin to function properly.
- The settings interface of Easy Mobile can be opened via menu *Window > Easy Mobile > Settings*, this is the only place to go to configure this plugin.
- 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.
- 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 safely ignore all the Scripting sections in Easy Mobile user guide).

4.2 Advertising

4.2.1 Template-specific setup

The *PremiumFeaturesManager* 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

With Easy Mobile's Advertising module, you'll have support for AdMob, Chartboost, Heyzap (with mediation) and Unity Ads. You can use multiple ad networks at once and have different configurations for iOS and Android. For example, you can use AdMob for banner ads, Chartboost for interstitial ads and Unity Ads for rewarded ads on iOS, and yet another combination on Android.

To configure the Advertising module, open Easy Mobile settings interface and select the Advertising tab. Below is the settings interface of the module.

ADVERTISING

ADMOB SETUP

Google Mobile Ads (AdMob) plugin was imported.

Reimport Google Mobile Ads Plugin

► [iOS] AdMob Ids
► [Android] AdMob Ids

CHARTBOOST SETUP

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

Download Chartboost Plugin

HEYZAP SETUP

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

Download Heyzap Plugin

UNITY ADS SETUP

Unity Ads service is enabled.

AUTO AD-LOADING CONFIG

Auto-Load Default Ads ☒

Ad Checking Interval 10

Ad Loading Interval 20

DEFAULT AD NETWORKS

▼ [iOS] Default Ad Networks

Banner Ad Network Ad Mob

Interstitial Ad Network Ad Mob

Rewarded Ad Network Unity Ads

▼ [Android] Default Ad Networks

Banner Ad Network Ad Mob

Interstitial Ad Network Ad Mob

Rewarded Ad Network Unity Ads

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.

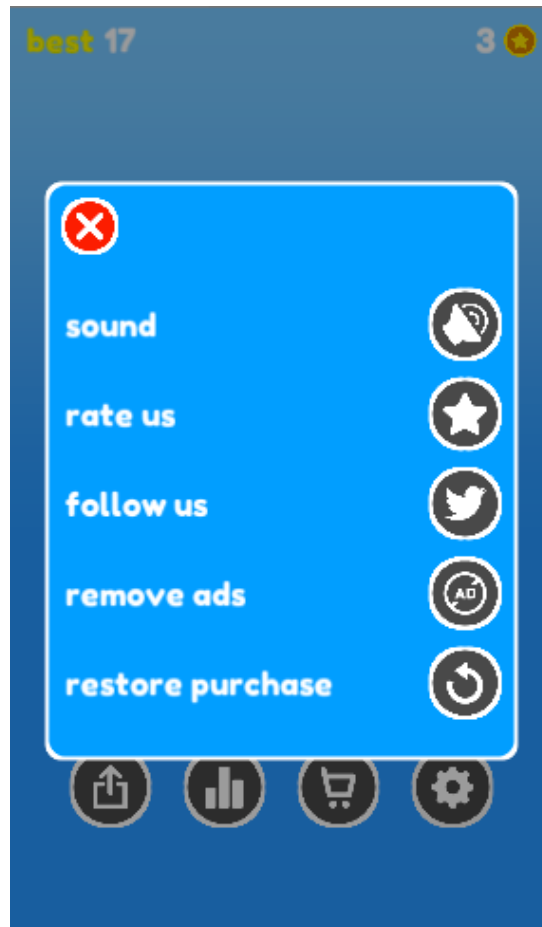
- Setup the ad networks you want to use, this includes importing the required plugins for each network, please see Easy Mobile user guide for more information
- Enable auto ad-loading feature: simply leave the *Auto-Load Default Ads* option as checked and other parameters as default, the plugin will 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!

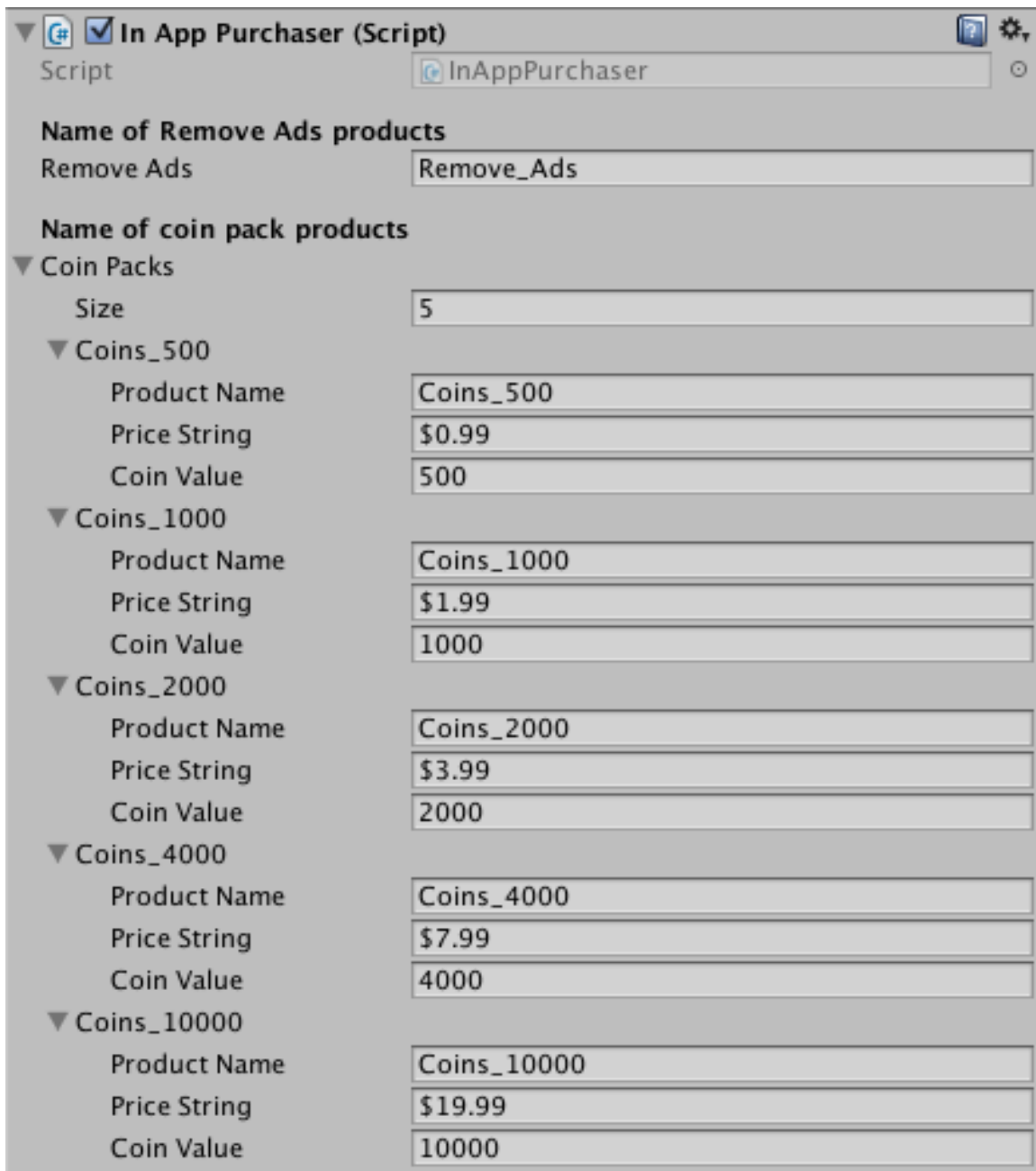
4.3 In-App Purchasing

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* 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: 5

▼ 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

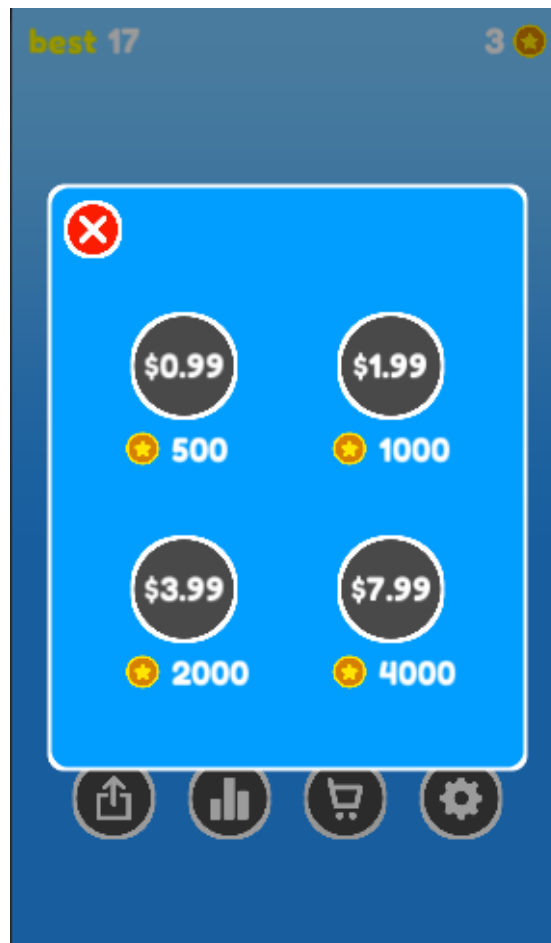
▼ Coins_10000

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.

IN-APP PURCHASING

[ANDROID] TARGET STORE


Target Android Store Google Play

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

► 6 Products

Add New Product

CONSTANTS CLASS 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.

The screenshot displays a configuration interface for in-app purchases. It features two main product entry boxes, each with a title, a 'Name' field, a 'Type' dropdown menu, and an 'Id' field. To the right of these boxes are three vertical buttons: an up arrow, a minus sign, and a down arrow.

Remove_Ads

Name: Remove_Ads

Type: Non Consumable

Id: sglib.demogame.iap.remove_ads

► More (Optional)

Coins_500

Name: Coins_500

Type: Consumable

Id: sglib.demogame.iap.coins_500

► More (Optional)

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.

The screenshot shows a configuration window titled 'Score Reporter (Script)'. It includes a 'Script' dropdown menu set to 'ScoreReporter', a checkbox for 'Check to disable automatic score reporting' which is currently unchecked, and a 'Leaderboard Name' field set to 'Score'.

▼ ☒ **Score Reporter (Script)**

Script: ScoreReporter

Check to disable automatic score reporting

Disable: ☐

Name of the leaderboard to report score as declared with EasyMobile

Leaderboard Name: Score

Achievements will be unlocked automatically when the user reaches a certain

score. The achievement unlocking is handled by a component named *AchievementUnlocker*. From this object, 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

Check to disable automatic achievement unlocking

Disable ☐

List of achievements to unlock

▼ Achievements

Size

▼ Score_10

Achievement Name

Score To Unlock

▼ Score_20

Achievement Name

Score To Unlock

▼ Score_30

Achievement Name

Score To Unlock

▼ Score_40

Achievement Name

Score To Unlock

▼ Score_50

Achievement Name

Score To Unlock

▼ Score_60

Achievement Name

Score To Unlock

▼ Score_70

Achievement Name

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.

- Setup Google Play Games if you're targeting Android
- Enable the automatic initialization feature: just leave everything under the **AUTO-INIT CONFIG** section as default
- Declare the leaderboards and achievements

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

The screenshot shows the 'GAME SERVICE' settings screen. At the top, there's a toggle switch for 'GAME SERVICE' which is turned on. Below it, a message states 'Google Play Games plugin is imported and ready to use.' with a 'Reimport Google Play Games Plugin' button. The '[ANDROID] GOOGLE PLAY GAMES SETUP' section includes a 'PGGS Debug Log' checkbox and a text box for pasting Android XML Resources from the Play Console. Below this is a text area containing XML code for game services IDs. The 'Setup Google Play Games' button is below the XML. The 'AUTO-INIT CONFIG' section has 'Auto Init' checked, 'Auto Init Delay' set to 0, and '[Android] Max Login Request' set to 3. The 'LEADERBOARD SETUP' section shows '1 Leaderboards' and an 'Add New Leaderboard' button. The 'ACHIEVEMENT SETUP' section shows '20 Achievements' and an 'Add New Achievement' button.

GAME SERVICE ☒

! Google Play Games plugin is imported and ready to use.

Reimport Google Play Games Plugin

[ANDROID] GOOGLE PLAY GAMES SETUP

PGGS Debug Log ☐

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

Android XML Resources

```
<?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[REDACTED]</string>
  <string name="package_name">com.sglib.demogame</string>
  <string name="achievement_score_10">Cgkl3tzAhK8eEAIQeg</string>
  <string name="achievement_score_20">Cgkl3tzAhK8eEAIQAQ</string>
  <string name="achievement_score_30">Cgkl3tzAhK8eEAIQew</string>
</resources>
```

Setup Google Play Games

AUTO-INIT CONFIG

Auto Init ☒

Auto Init Delay

[Android] Max Login Request

LEADERBOARD SETUP

▶ 1 Leaderboards

Add New Leaderboard

ACHIEVEMENT SETUP

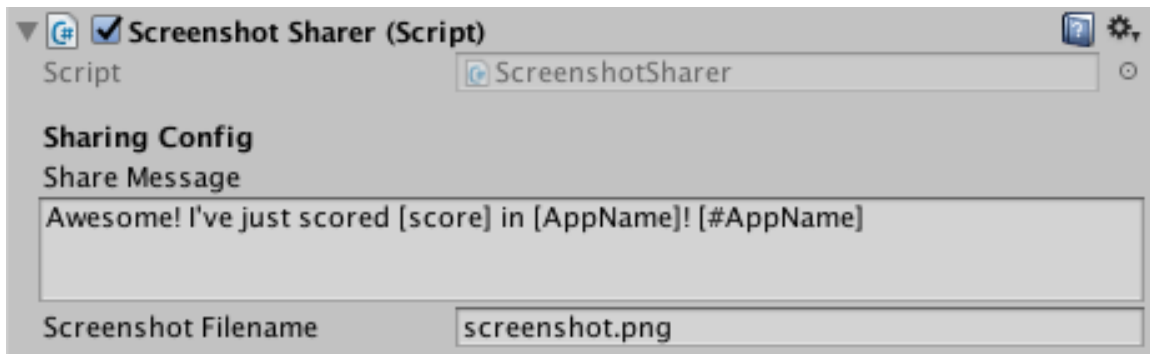
▶ 20 Achievements

Add New Achievement

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 the game's screenshot 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.



Here you can configure the sharing feature.

- *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
- *Screenshot Filename*: filename to store the screenshot in the device storage

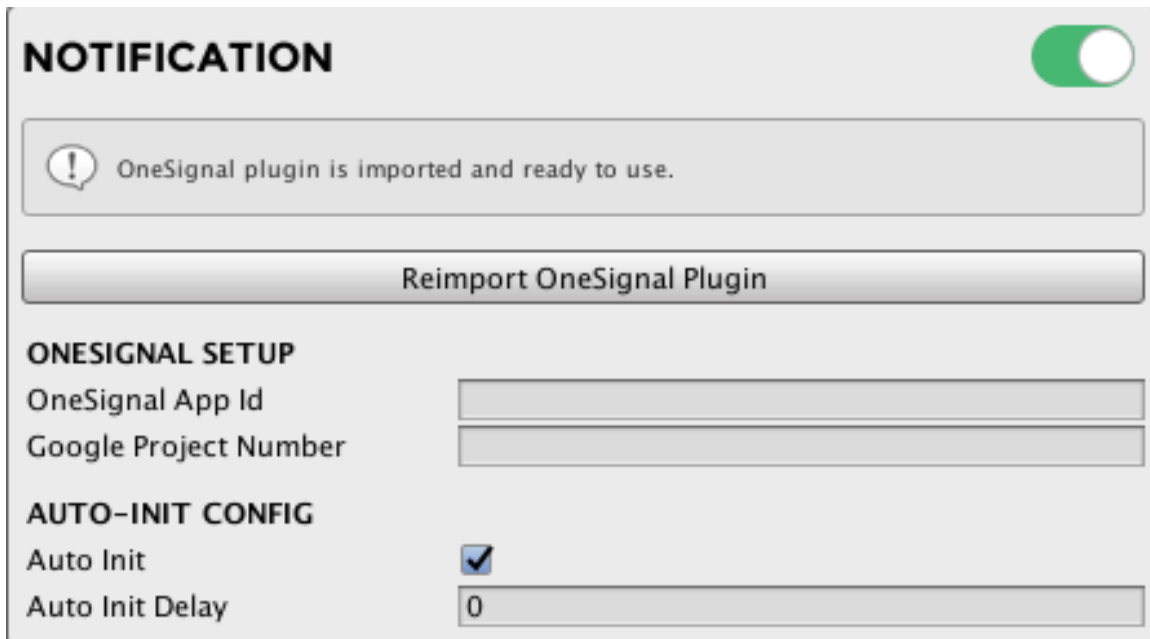
Note that you need to enable the *external write permission* for this feature to function properly on Android. Please see the Native Sharing section in Easy Mobile user guide for detailed instructions on doing that.

4.6 Push notifications

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

- Open the Notification tab in Easy Mobile's settings interface
- Import OneSignal 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 documentation for detailed instructions).
- Add your app to OneSignal dashboard
- Enter your app ID to Easy Mobile settings in Unity

Below is the settings interface of the Notification module of Easy Mobile where you can enter your app ID and Google project number.



The screenshot shows the 'NOTIFICATION' settings screen. At the top right is a green toggle switch. Below the title is a message box with an exclamation mark icon stating 'OneSignal plugin is imported and ready to use.' Underneath is a button labeled 'Reimport OneSignal Plugin'. The 'ONESIGNAL SETUP' section contains two input fields: 'OneSignal App Id' and 'Google Project Number'. The 'AUTO-INIT CONFIG' section has a checked checkbox for 'Auto Init' and a text input field for 'Auto Init Delay' with the value '0'.

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

THANK YOU AND GOOD LUCK WITH YOUR GAMES!