# **BRIDGES! TEMPLATE**

## **USER GUIDE**

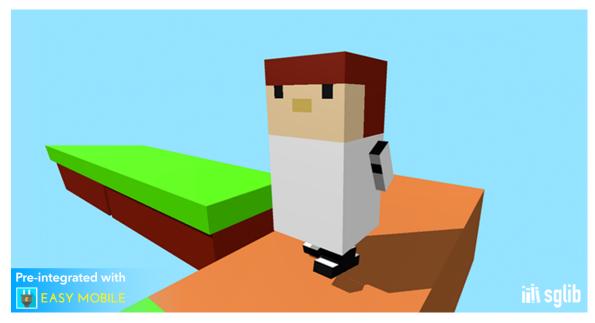
We strive to provide the best service as we can, if you have any questions or suggestions, please contact us!

Thank you!

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## 1 INTRODUCTION



Tap to rotate and cross the bridges! Don't fall, it hurts! **Bridges** is a simple, fast-paced game that will put the player's reflexes to the ultimate test. An addictive easy-to-play-hard-to-master game!

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

- Addictive one-touch gameplay.
- 30 built-in characters with cute blocky style.
- Daily reward system.
- All assets (sounds, fonts, models, sprites, etc.) are free for commercial use.
- · Optimized for iOS and Android.
- Full C# source code.
- Detailed documentation.

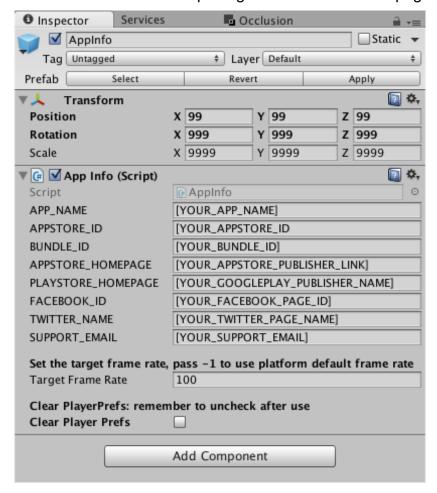
Most importantly, this template includes **Easy Mobile** plugin, making it a truly fully-featured game that is release-ready. Easy Mobile is a comprehensive, cross-platform package that provides most of desired features of mobile games:

- Support for AdMob, Chartboost, Heyzap (with mediation) and UnityAds
- In-app purchasing
- Support for Game Center (iOS) and Google Play Games Services (Android) for leaderboards and achievements
- Sharing to social networks
- · Push notifications using OneSignal

#### 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.



Besides basic app info, there're 2 other important variables:

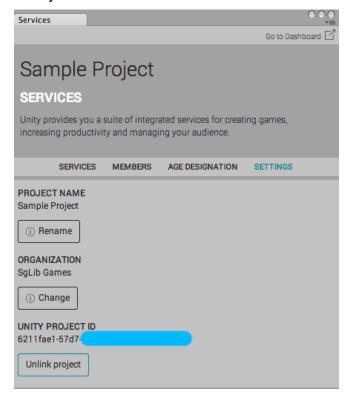
- TargetFrameRate: set the target frame rate for the game, which should be at least 60fps for smooth motion.
- ClearPlayerPrefs: a convenient variable used for debugging purpose, check
  this and run the game will clear the PlayerPrefs (using
  PlayerPrefes.DeleteAll() method). It only works in the editor but it's worth
  remembering to uncheck the variable after use to avoid later confusion.

## 2.2 Link the game to your Unity project

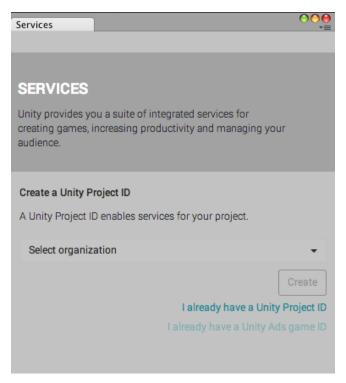
When developing this template, we normally need to link it to our own Unity project

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

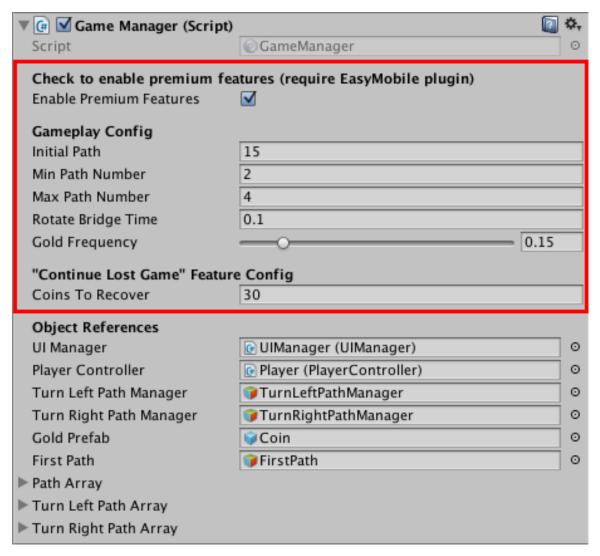
## 2.3 Testing Note

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

## 3 TEMPLATE CUSTOMIZATION

## 3.1 Gameplay tweaking

Most of important game parameters are located within the *GameManager* component of the namesake object in the hierarchy.



- EnablePremiumFeatures: enable or disable premium features, if disabled, the corresponding buttons like showing leaderboards or in-app purchase will be hidden from the UI.
- InitialPath: how many path is created when the game start.
- *MinPathNumber* & *MaxPathNumber*: the length of the path will be created by these value.
- RotateBridgeTime: time to rotate bridge.
- GoldFrequency: probability to create gold (coins).
- CoinsToRecover: the number of coins required to continue a lost game (the user can also watch a video ad instead, if premium features were enabled)

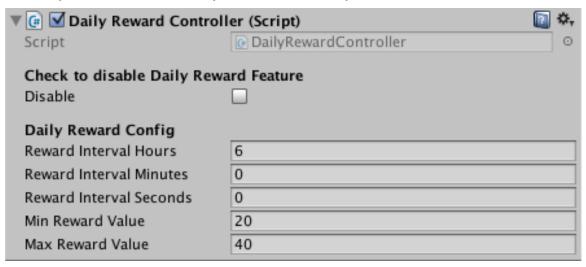
Another important component is the *PlayController* within the *Player* object. Here you can adjust the moving speed of the character. The faster he moves the harder

the game becomes.



#### 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.



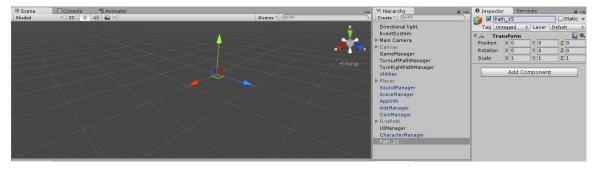
- Disable: check to disable this feature
- Reward Interval Hours, Minutes and Seconds: the amount of time until the next reward
- Min Reward Value & Max Reward Value: the actual rewarded coins will be randomized between these two values

## 3.3 Adding more paths

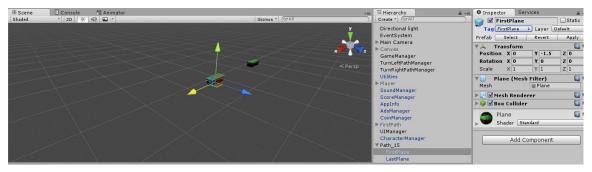
A path consists of normal plans and bridges that combining with other paths create the whole way our character travels on. Here're the steps to create a new path.

a. Create an empty game object and rename it, set it to (0,0,0) position( i will





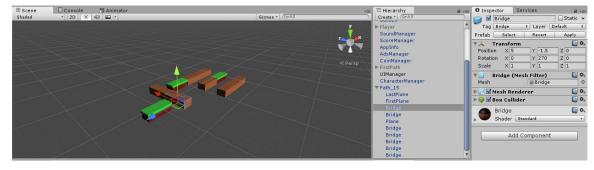
b. Go to Prefabs -> drag object call "Plane" into Hierarchy and make it is child of the Path you create, duplicate it become 2 object ,i will call it is "FirstPlane" and "LastPlane", add tag for FirstPlane is FirstPlane and LastPlane is LastPlane. Set position for FirstPlane is (0,-1.5,0). Now it look like this:



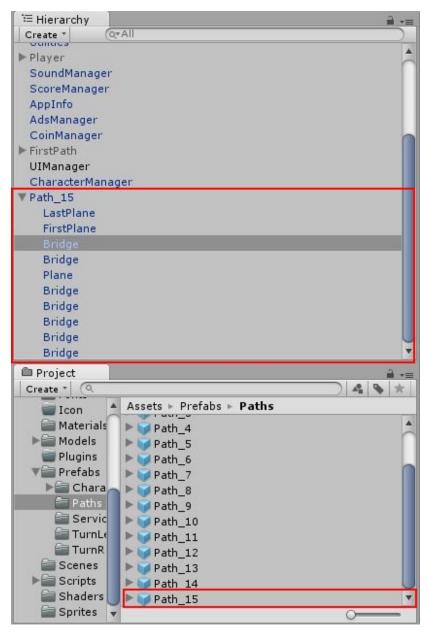
c. Now you can make bridges, drag object called "Bridge" from Prefabs into Hierarchy to create the path.

\*IMPORTANT: make sure the path isn't impossible for player to go through, the moving direction of player base on local x vector of the path under the it.

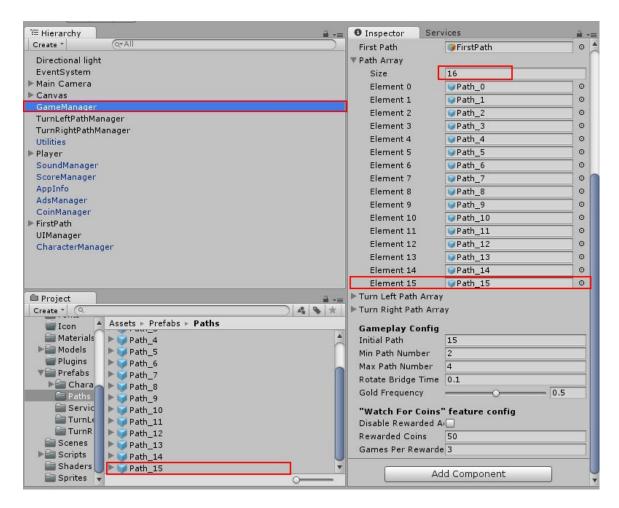
First tap, the bridge will rotate by plus 90 for y rotation, the second tap is -90 and repeat that loop. After all, the path maybe look like this:



d. Now drag the Path into Prefabs->Paths folder.



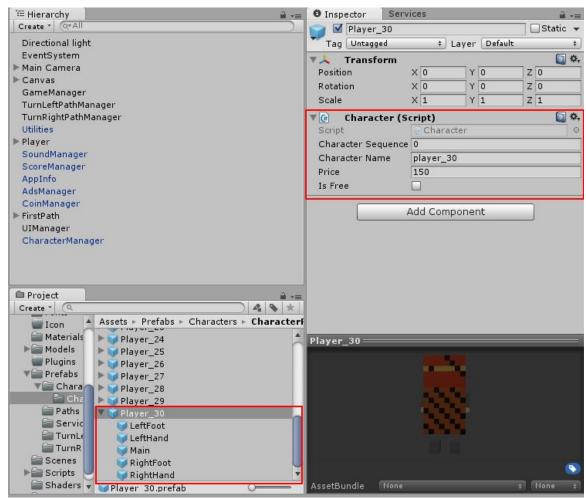
e. Now , resize PathObjects parameter of GameManager, drag and drop Path\_15 into that array and hit apply.



## 3.4 Adding more characters

Out-of-the-box, Bridges is already packed with 30 characters, cute and ready to unlock! If you want to add more, follow these simple steps:

- Create a character model.
- b. Navigate to Assets/Prefabs/Characters/CharacterPrefabs and duplicate one of the available character prefabs.
- c. Change the name of the prefab to a preferred one.
- d. Replace the *Mesh* in the *MeshFilter* component of the children with your new model mesh.
- e. Replace the *Material* in the *MeshRenderer* component of the children with your new character material.
- f. Enter the character name and price to the *Character* component. Check the *isFree* box if you want to give out this character for free (it will be automatically unlocked).
- g. Resize the character array in CharacterManager game object then drag the



new character to it and hit Apply to save changes to its prefab.

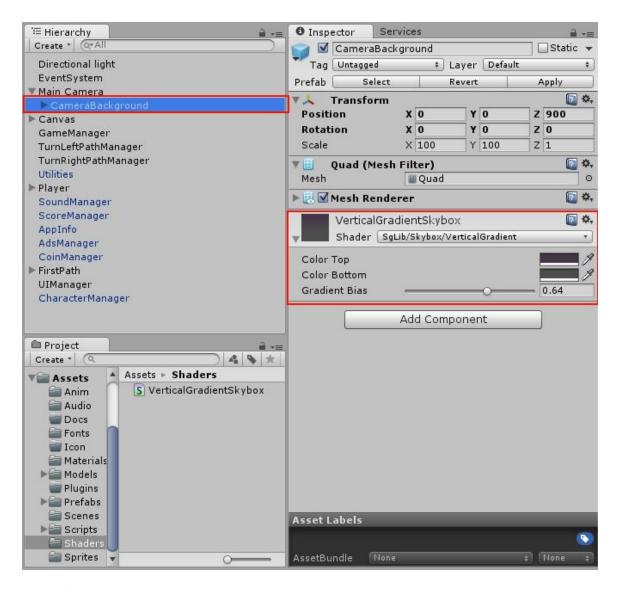
Now the new character has been added and ready to use in game! You will see it listed in the *CharacterSelelection* scene.

\* **IMPORTANT**: the new character's name must not repeat any existing character name.

## 3.5 Changing background gradient

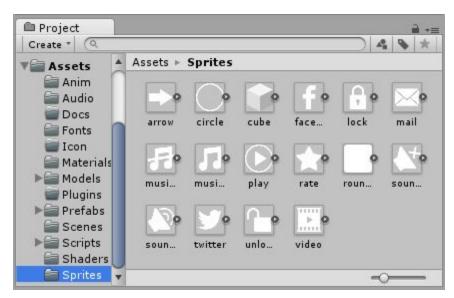
The gradient sky background in this game is implemented by a gradient shader call *VerticalGradientSkybox* located in the *Shaders* folder. It's an easy-to-use vertext/fragment shader. To modify the background gradient colors:

- 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.

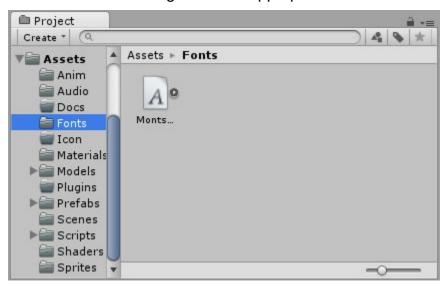


## 3.6 Customizing UI

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.

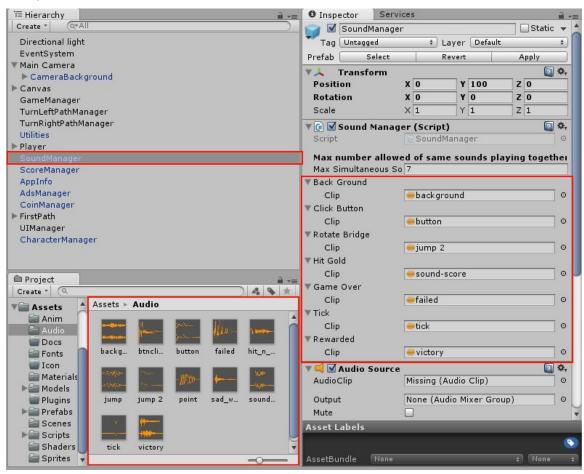


## 3.7 Sounds

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

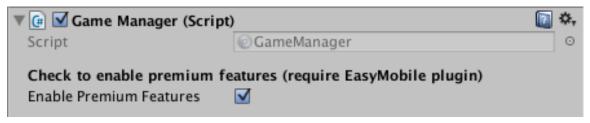
Premium features include:

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

This section provides a guide on configuring these features for your game. As the features are implemented using EasyMobile plugin, this guide is intended to be used alongside EasyMobile's official user guide, which can be found at <a href="https://sqlibgames.gitbooks.io/easy-mobile-user-guide/content/">https://sglibgames.gitbooks.io/easy-mobile-user-guide/content/</a>.

## 4.1 Before You Begin

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

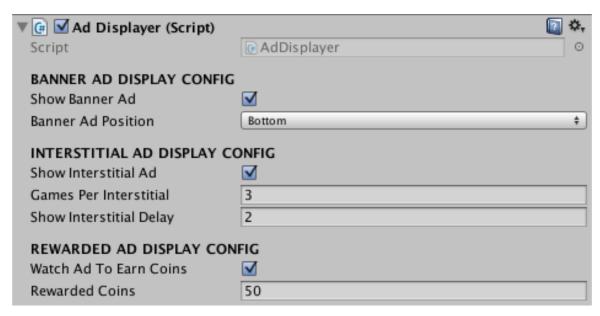


- Make sure there's an EasyMobile object in the Main scene, if not you can add it using the EasyMobile prefab at folder Assets/EasyMobile. It is necessary for the plugin to function properly.
- The settings interface of Easy Mobile can be opened via menu Window > Easy Mobile > Settings, this is the only place to go to configure this plugin.
- 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

This template contains a game object 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

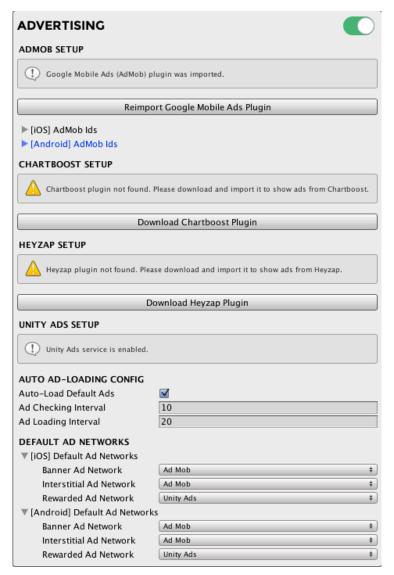
Rewarded ads are configured in the **REWARDED AD DISPLAY CONFIG** section.

- 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.



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.

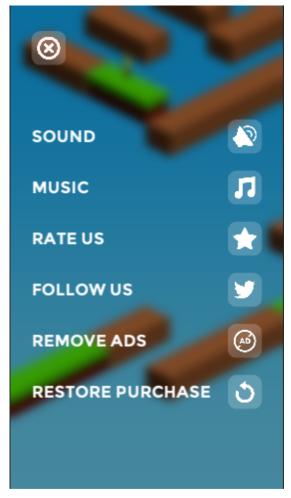
- a. Setup the ad networks you want to use, this includes importing the required plugins for each network, please see Easy Mobile user guide for more information
- b. Enable auto ad-loading feature: simply leave the *Auto-Load Default Ads* option as checked and other parameters as default, the plugin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

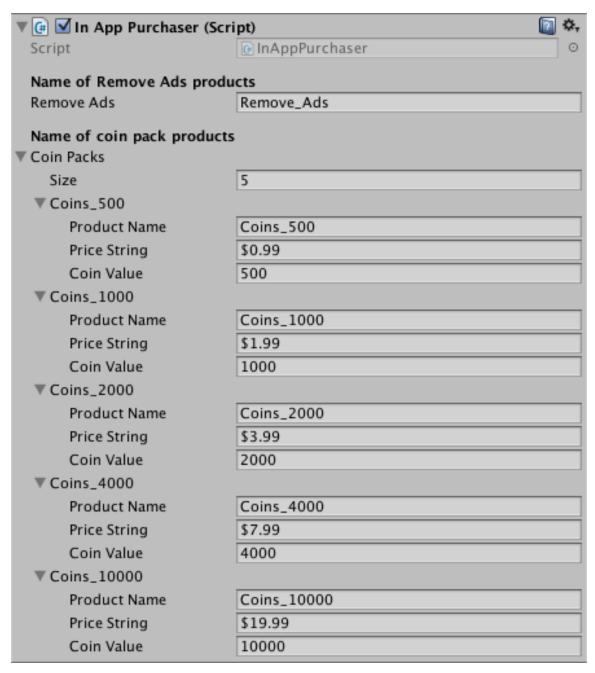
## 4.3 In-App Purchasing

## 4.3.1 Template-specific setup

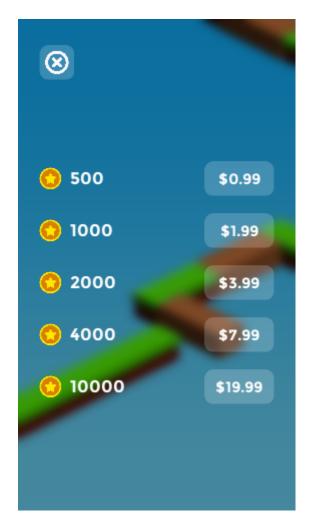
The built-in in-app purchases of this template include a *Remove Ads* button, and several coin packs. You can modify existing products and add more coin packs if you like. There's also one *Restore Purchase* button as required on iOS.



In the hierarchy, there's a game object named *InAppPurchaser* which manages all the in-app purchasing activities in this game.



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.

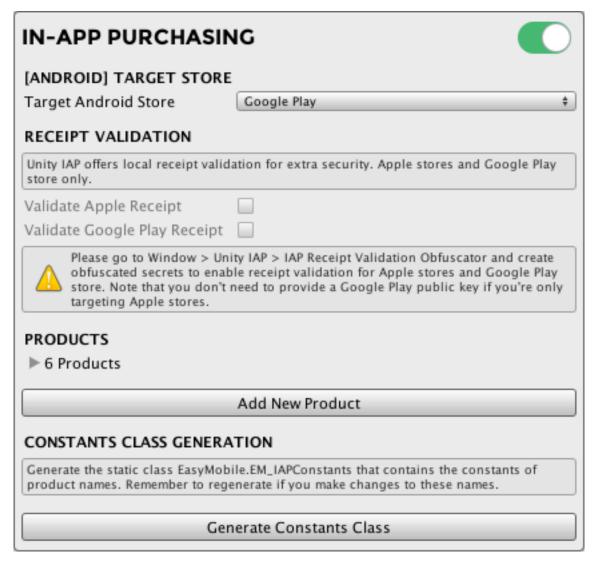


## 4.3.2 Easy Mobile setup

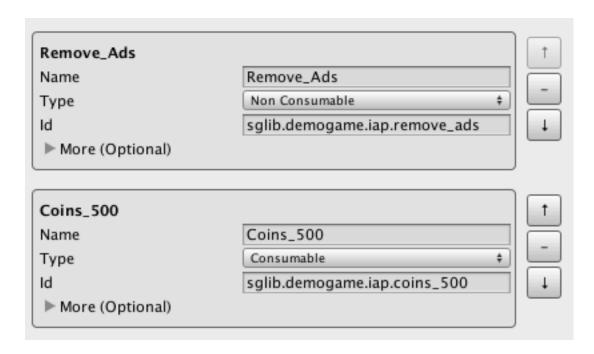
Setting up the In-App Purchasing module of Easy Mobile includes the following steps. Please see the In-App Purchasing section in Easy Mobile's user guide for detailed instructions on each step.

- 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.



Note that the products declared with Easy Mobile must have names that match with the ones you have in the aforementioned *InAppPurchaser* object. 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

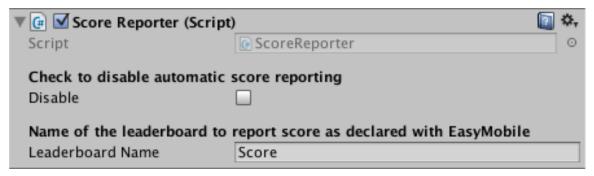
That last step in configuring the in-app purchasing feature is to create products for your targeted stores (e.g. Google Play and Apple App Store). Make sure the product ID, product type and price match the ones you have in your game.

#### 4.4 Game Service

#### 4.4.1 Template-specific setup

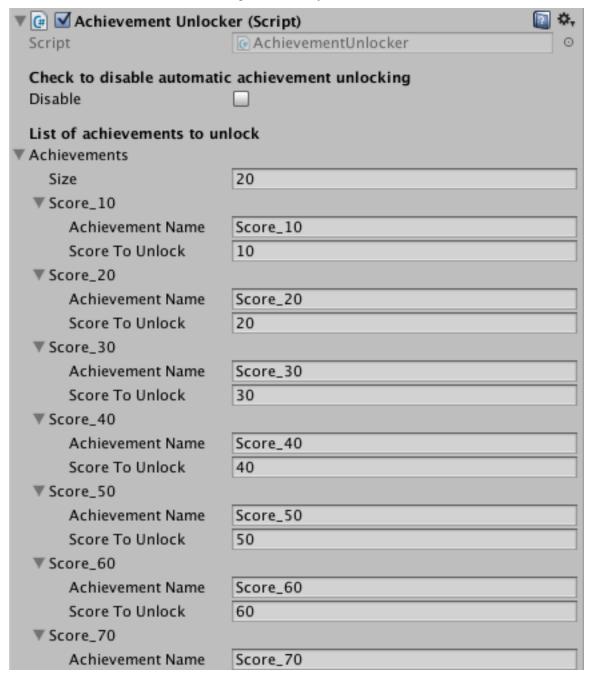
This template has a built-in leaderboard for ranking users' scores, and many achievements. It works with Game Center (iOS) and Google Play Game Services (Android).

User's score will be submitted automatically when game over by an object named *AutoScoreReporter*. 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 an object named

AutoAchievementUnlocker. 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.



#### 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. Setup Google Play Games 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.

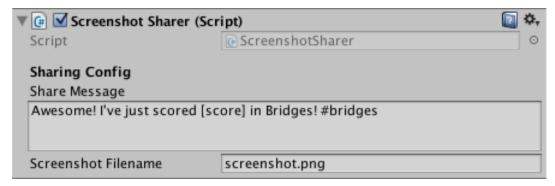


Note that you must declare the leaderboard and achievements with the same names as the ones you have in the *AutoScoreReporter* and

AutoAchievementUnlocker objects. 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 the object named *ScreenshotSharer*.



Here you can configure the sharing feature.

- Share Message: the default sharing message, note that [score] will be automatically replaced by actual score
- Screenshot Filename: filename to store the screenshot in the device storage

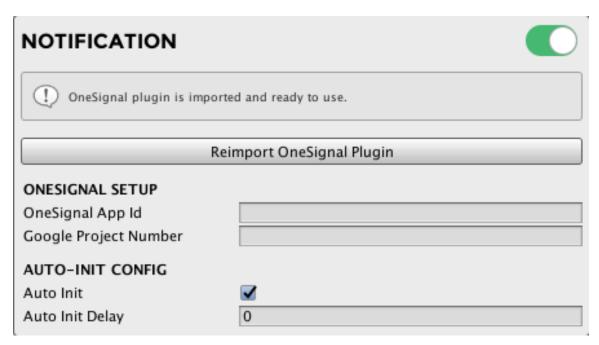
Note that you need to enable the *external write permission* for this feature to function properly on Android. Please see the Native Sharing section in Easy Mobile user guide for detailed instructions on doing that.

#### 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
- Declare your app ID and Goole project number to Easy Mobile 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.



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

## THANK YOU AND GOOD LUCK WITH YOUR GAMES!