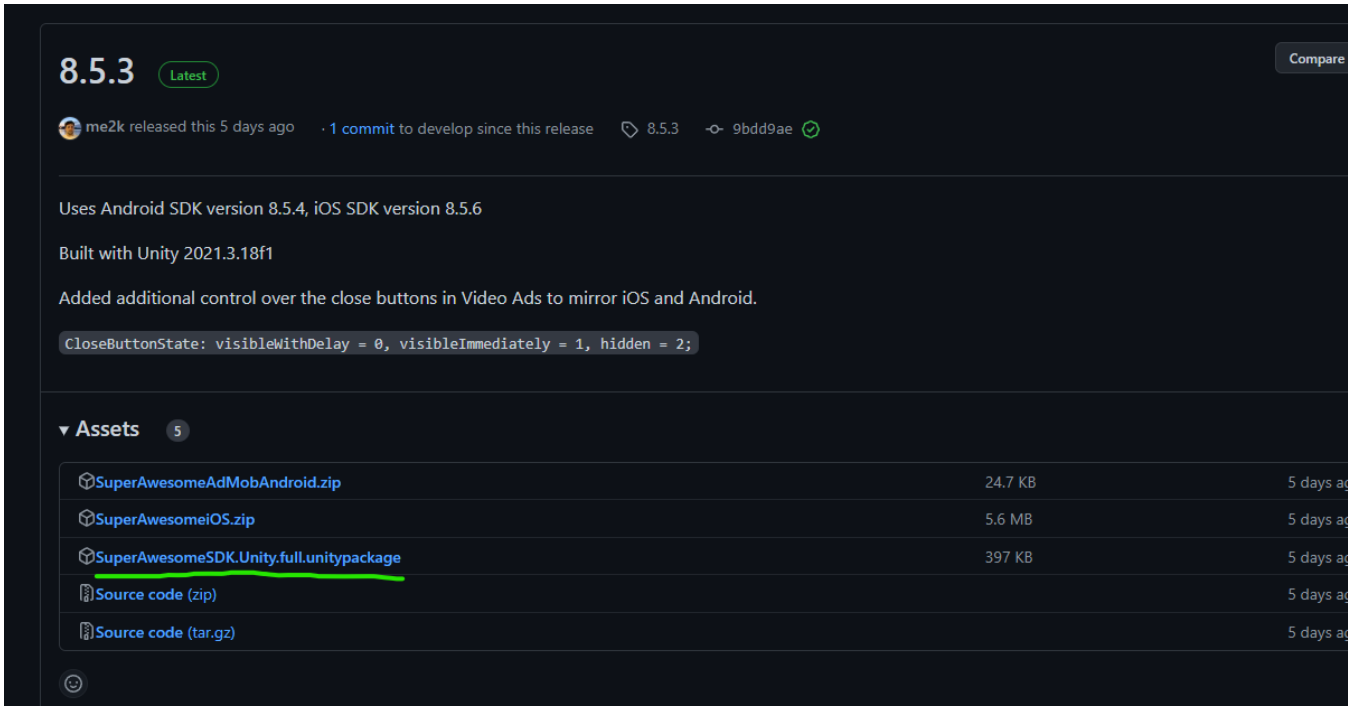
Android

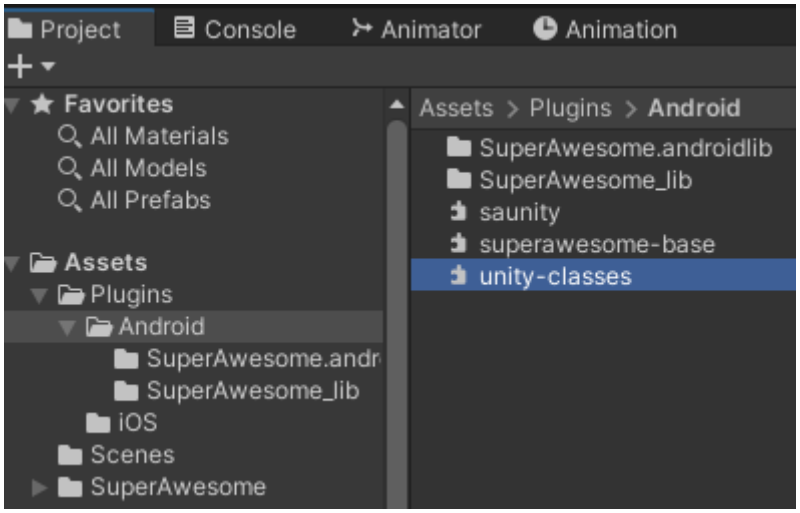
The test was done in Unity version is 2021.3.18 but it should be working with Unity version 2020.

1. Create an empty project

2. Download and Import Unity package SA 8.5.3 (higher versions should work the same way)



3. Depending on the Unity version delete ***unity-classes.jar*** file from the ***Plugins/Android*** folder if it causes duplicated method issues. In Unity 2021.3.18 it needs to be deleted.



4. Create a script that will handle the initialization and launching of the SA ads that contain the following code. The script is a tweaked version of the one from the Interstitials tutorial

In line 6 add your Placement ID

```
using tv.superawesome.sdk.publisher;
using UnityEngine;

public class MainScript : MonoBehaviour
{
    private const int PlacementId = 30473;

    private void Awake()
    {
        AwesomeAds.init(true);
    }

    private void Start()
    {
        // set configuration production
        SAInterstitialAd.setConfigurationProduction();

        // to display test ads
        SAInterstitialAd.enableTestMode();

        // lock orientation to portrait or landscape
        SAInterstitialAd.setOrientationPortrait();

        // enable or disable the android back button
        SAInterstitialAd.enableBackButton();

        //set callbacks so we play an ad only after it's loaded
        SetCallbacks();
    }

    public void PlayInterstitial()
    {
        // start loading ad data for a placement
        SAInterstitialAd.load(PlacementId);
```

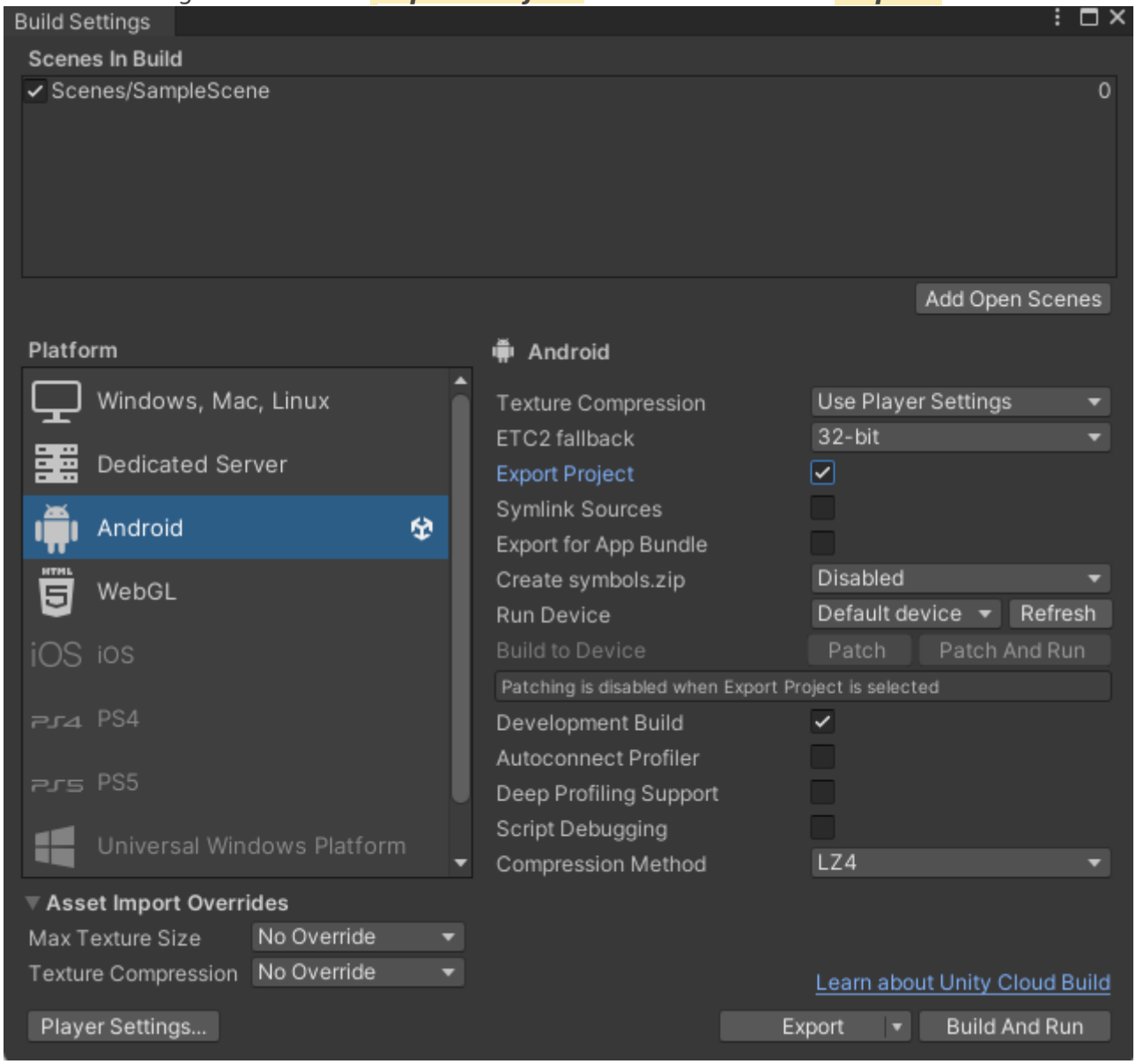
```
        Debug.Log("Try to play ad...");
    }

    private void SetCallbacks()
    {
        SAInterstitialAd.setCallback(SAInterstialAd_OnCallback);
    }

    private void SAInterstialAd_OnCallback(int placementId, SAEvent eventType)
    {
        Debug.Log($"Handling Interstitial callback for id {placementId}...");

        switch (eventType)
        {
            case SAEvent.adLoaded:
                // called when an ad has finished loading
                Debug.Log("Ad loaded callback...");
                SAInterstitialAd.play(PlacementId);
                break;

            case SAEvent.adEmpty:
                // called when the request was successful but the server returned no
ad
                Debug.LogWarning("Ad empty callback...");
                break;

            case SAEvent.adFailedToLoad:
                // called when an ad could not be loaded
                Debug.LogWarning("Ad failed to load callback...");
                break;

            case SAEvent.adShown:
                // called when an ad is first shown
                Debug.Log("Ad shown callback...");
                break;

            case SAEvent.adFailedToShow:
                // called when an ad fails to show
                Debug.LogWarning("Ad failed to show callback...");
```

```
                break;

            case SAEvent.adClicked:
                // called when an ad is clicked
                Debug.Log("Ad clicked callback...");
                break;

            case SAEvent.adEnded:
                // called when a video ad has ended playing (but hasn't yet closed)
                Debug.Log("Ad ended callback...");
                break;

            case SAEvent.adClosed:
                // called when a fullscreen ad is closed
                Debug.Log("Ad closed callback...");
                break;
        }
    }
}
```

5. Call the ***PlayInterstitial()*** method from the above script via a button from the scene.

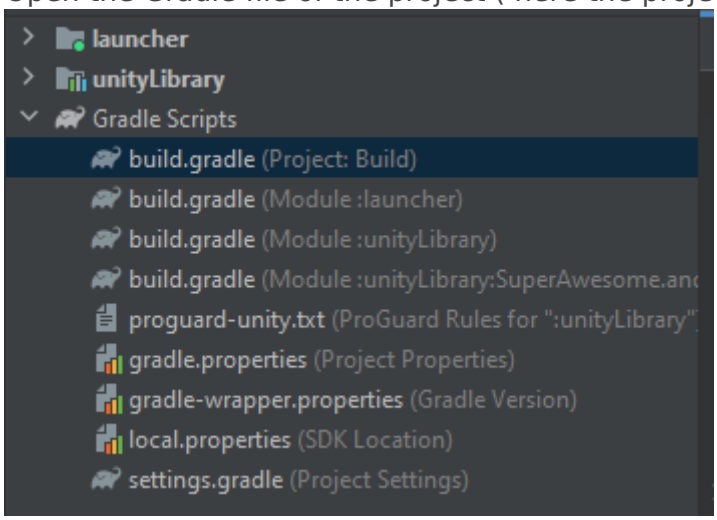
The following sections are automated in our main projects

6. In Build Settings activate the ***Export Project*** checkbox and click ***Export***.



7. Open the exported project in Android Studio *(if asked use Android SDK)*

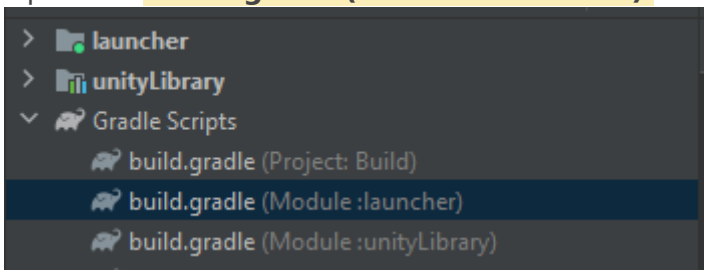
8. Open the Gradle file of the project (here the project was in the **Build** folder)



9. Add ***mavenCentral()*** *into the* **repositories** on ***lines 4 and 20***
10. Add **classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:1.6.20"** to ***line 15***

```
allprojects {
    buildscript {
        repositories {
            mavenCentral()
            google()
            jcenter()
        }

        dependencies {
            // If you are changing the Android Gradle Plugin version, make sure it is compatible with the Gradle version preinstalled with Unity
            // See which Gradle version is preinstalled with Unity here https://docs.unity3d.com/Manual/android-gradle-overview.html
            // See official Gradle and Android Gradle Plugin compatibility table here https://developer.android.com/studio/releases/gradle-plugin#updating-gradle
            // To specify a custom Gradle version in Unity, go do "Preferences > External Tools", uncheck "Gradle Installed with Unity (recommended)" and specify a path to a custom Gradle version
            classpath 'com.android.tools.build:gradle:4.0.1'
            classpath 'org.jetbrains.kotlin:kotlin-gradle-plugin:1.6.20'
        }
    }

    repositories {
        mavenCentral()
        google()
        jcenter()
        flatDir {
            dirs "${project(':unityLibrary').projectDir}/libs"
        }
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```

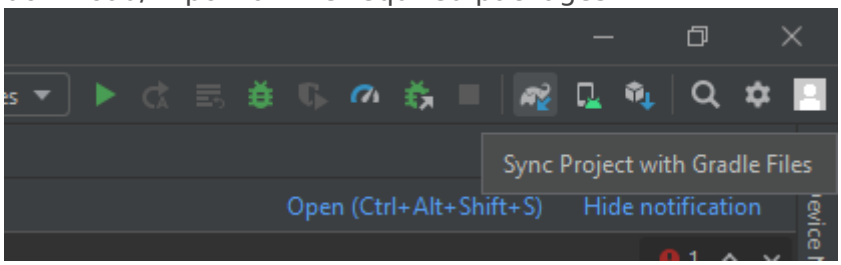
11. Open the **build.gradle(Module :launcher)** file



12. Add the missing directive at the top of the script *(line2)*

```
apply plugin: 'kotlin-android'
```

13. Click the ***Sync Project with Gradle Files*** button and wait for Android Studio to download/import all the required packages.



14. Go back to Unity, click Export again then Build or Build & Run and ads should be working when clicking the button.

Revision #12
Created 7 March 2023 10:48:09 by Laslo Simion
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