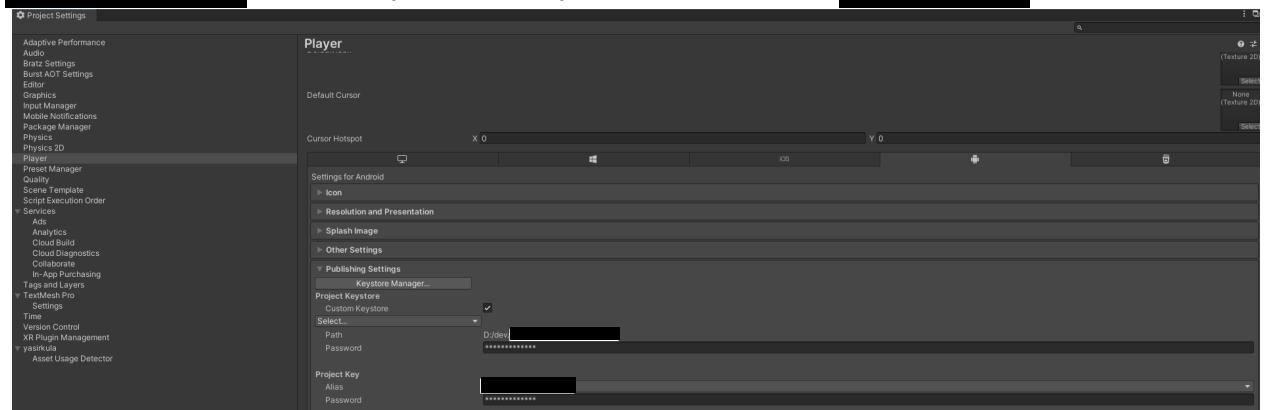
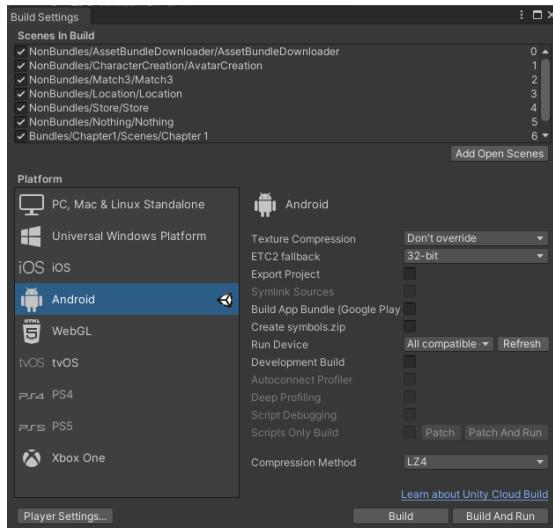


These are some steps you can take to make an APK file for the Bratz_FameAndFashion_UnityProject (some parts may not apply to everyone but can be used for troubleshooting). Works best for Unity versions 2020.2.1f1 or 2020.2.5f1.

1. Make sure the platform is set to Android in the build settings.
2. Go to Project Settings > Publishing Settings and then set the Keystore (outrightgames.keystore). In the Project Key section make sure the alias is set as: [REDACTED]. After that you have to type in this password: [REDACTED]



3. In the Build Settings, you'll need to make sure Build App Bundle is checked on. Also, in
4. In Build Settings find the Build button. This will create an APK.



If you're unable to build an APK after doing these things then take a look at the troubleshooting steps on the next page.

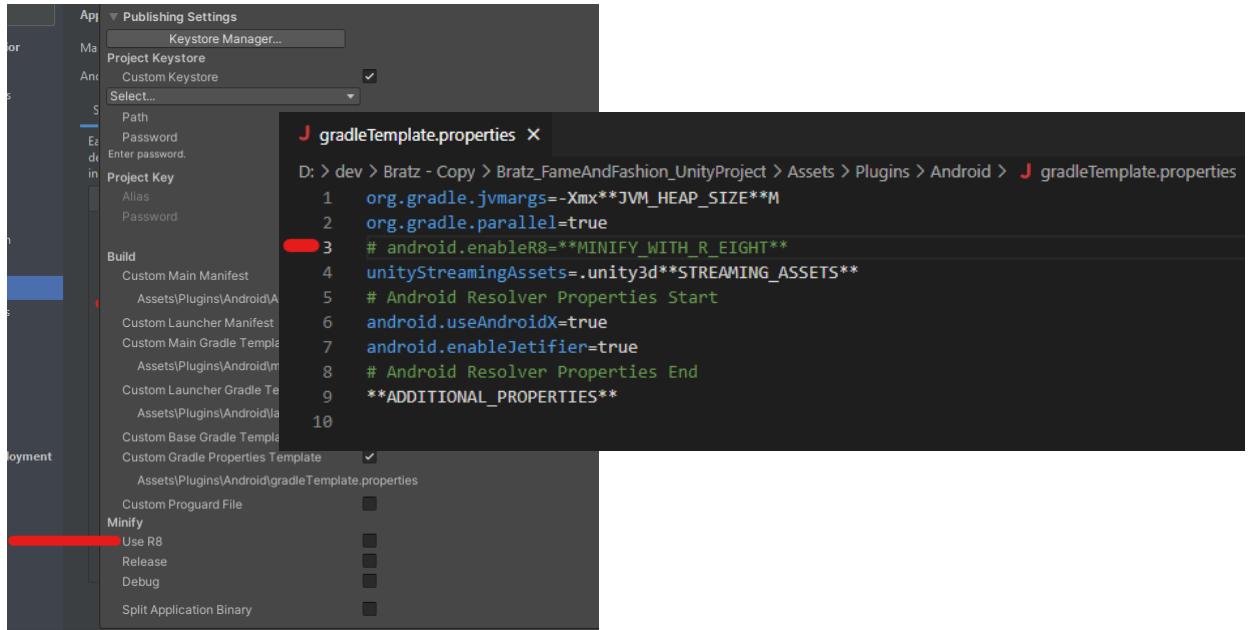
Troubleshooting Steps

Doing these things will help you figure out how to overcome Gradle problems.

1. Error:

```
WARNING: The option 'android.enableR8' is deprecated and should not be used anymore.  
It will be removed in a future version of the Android Gradle plugin, and will no longer allow you to disable R8.
```

Solution: Uncheck Use R8 in Minify under Publishing Settings. Then, comment out the code in gradleTemplate.properties (the path is Assets > Plugins > Android) that uses R8.



2. Error:

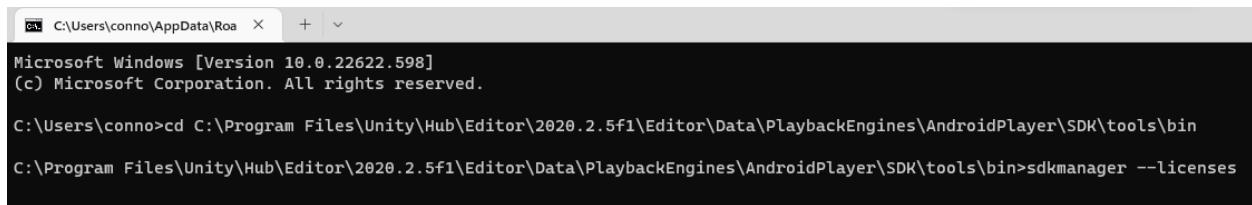
```
> Failed to install the following Android SDK packages as some licences have not been accepted.  
  build-tools;30.0.3 Android SDK Build-Tools 30.0.3  
To build this project, accept the SDK license agreements and install the missing components using the Android Studio SDK Manager.
```

Solution: Open up the Command Prompt at the directory where the sdkmanager file is located in your Unity Version.

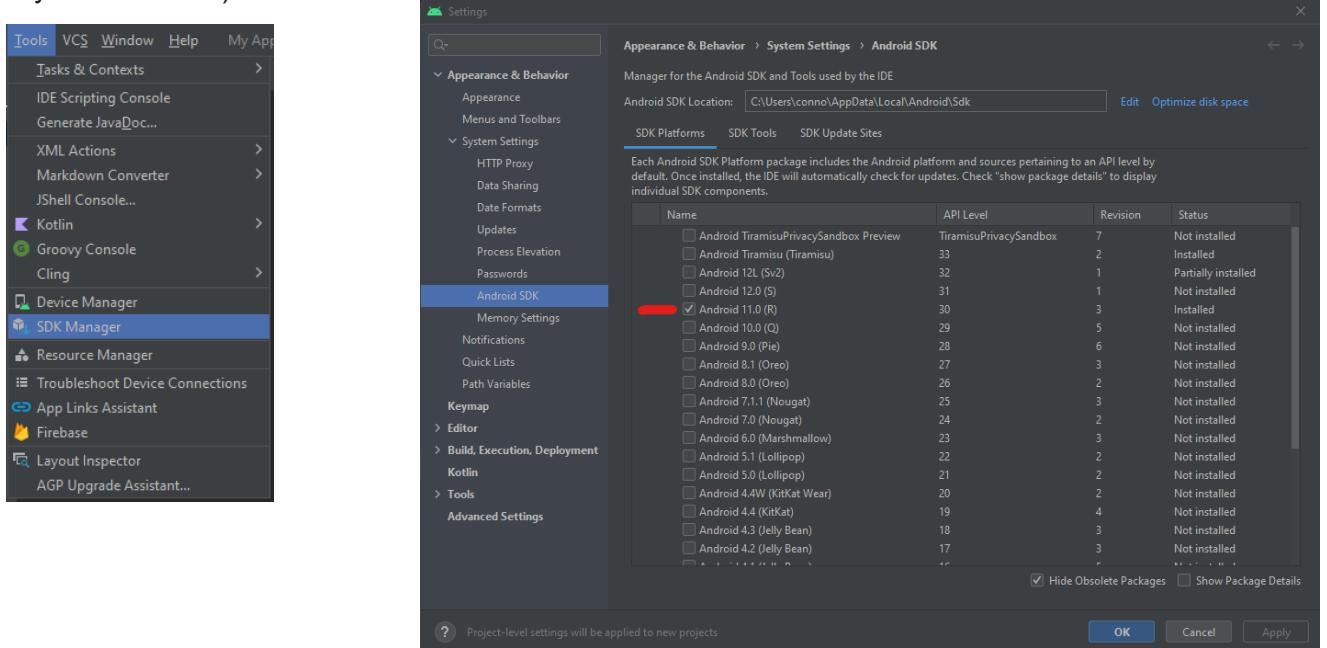
For me, it was:

C:\Program Files\Unity\Hub\Editor\2020.2.5f1\Editor\Data\PlaybackEngines\AndroidPlayer\SDK\tools\bin

Then in the command prompt run this command: sdkmanager --licenses

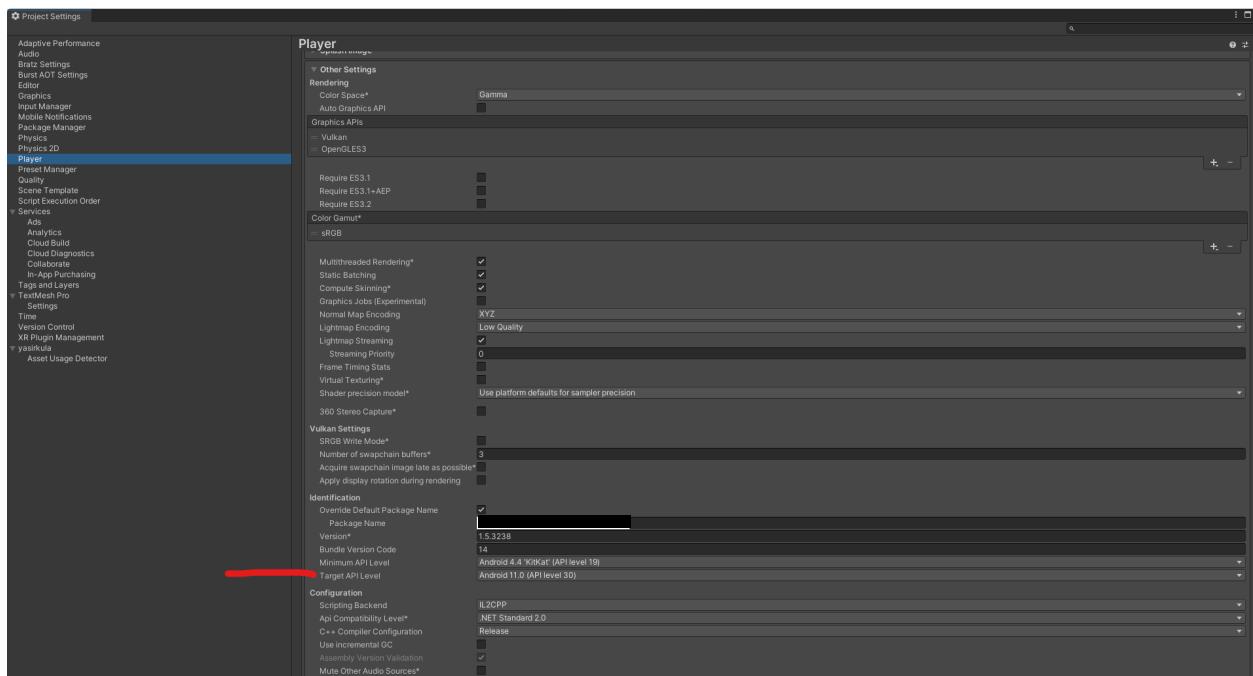


Accept all of the agreements when it prompts you to do so. If it says something like your repositories.cfg file couldn't be loaded you may have to create that file yourself. You might also have to install Android Studio and download whatever Android SDK packages Unity is prompting you to download through the SDK Manager (Tools > SDK Manager). Download the correct SDK platform and SDK tools (check the API level - Unity will tell you which one).

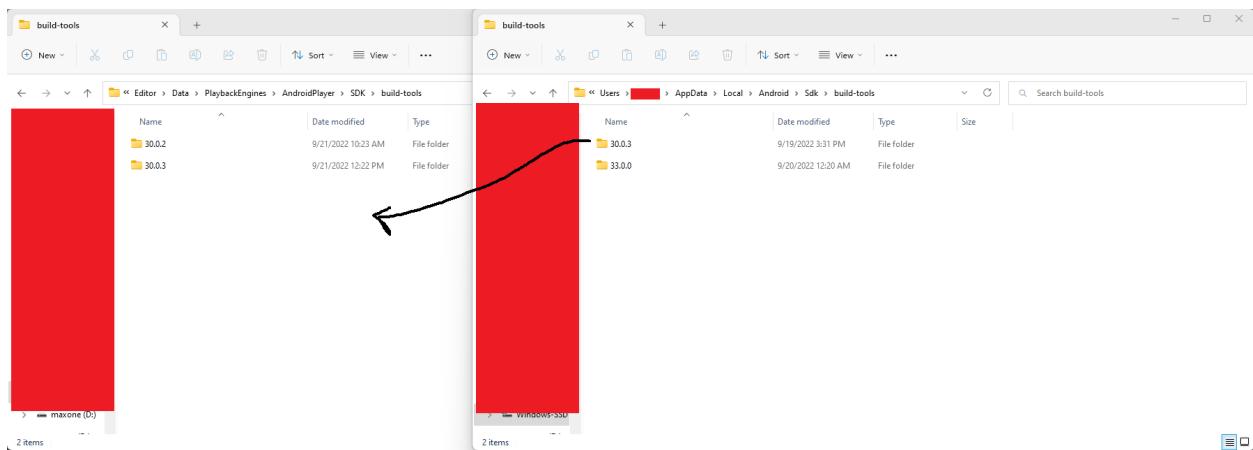


These things might also help if you're trying to make an APK and the Gradle build keeps failing.

1. Changing the Target API Level in Project Settings from Automatic to the API level that your Unity SDK is using.



2. Copying the build tools from the Android SDK in AppData to the Unity installed Android SDK.



3. Error:

The screenshot shows the Unity Editor's Console tab. The output log displays several error messages related to a failed Gradle build. A red circle highlights the first error message: "CommandInvocationFailure: Gradle build failed." Below this, another red circle highlights the specific error: "Execution failed for task ':launcher:checkReleaseDuplicateClasses'". The log continues with detailed stack traces for Java.lang.RuntimeException and java.lang.ClassNotFoundException, both indicating duplicate class definitions for com.android.billingclient.billing-4.0.0-runtime.jar and com.android.billingclient.billing-3.0.3-runtime.jar.

```
[10:56:58] Generated resource for com.crashlytics.android.build_id : 9d546b00-7e25-4fc9-a422-2a3202c2b5ce
UnityEngine.DebugLog (object)
[10:56:58] Generated resource for com.google.firebaseio.crashlytics.unity_version : 2020.3.36f1
UnityEngine.DebugLog (object)
[10:59:43] Starting a Gradle Daemon, 1 incompatible Daemon could not be reused, use --status for details
[10:59:43] Note: Some input files use or override a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
[10:59:48] CommandInvocationFailure: Gradle build failed.
C:\Program Files\Unity\Hub\Editor\2020.3.36f1\Editor\Data\PlaybackEngines\AndroidPlayer\OpenJDK\bin\java.exe -classpath "C:\Program Files\Unity\Hub\Editor\2020.3.36f1\Editor\Data\PlaybackEngines\AndroidPlayer\Tools\gradle\lib\gradle-launcher-6.1.jar" org.gradle.launcher.GradleMain "-Dorg.gradle.jvmargs=-Xmx4096m"
[10:59:51] Build completed with a result of 'Failed' in 187 seconds (187077 ms)
UnityEngine.GUIUtility:ProcessEvent (int,intptr,bool)
[10:59:51] UnityEditor.BuildPlayerWindow+BuildMethodException: 4 errors
    at UnityEditor.BuildPlayerWindow+DefaultBuildMethods.BuildPlayer (UnityEditor.BuildPlayerOptions options) [0x002cc] in <786b546700bc48b68852821de5e46ca9>:0
CommandInvocationFailure: Gradle build failed.
C:\Program Files\Unity\Hub\Editor\2020.3.36f1\Editor\Data\PlaybackEngines\AndroidPlayer\OpenJDK\bin\java.exe -classpath "C:\Program Files\Unity\Hub\Editor\2020.3.36f1\Editor\Data\PlaybackEngines\AndroidPlayer\Tools\gradle\lib\gradle-launcher-6.1.jar" org.gradle.launcher.GradleMain "-Dorg.gradle.jvmargs=-Xmx4096m"
"bundleRelease"
stderr[

Note: Some input files use or override a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
Note: Some input files use unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':launcher:checkReleaseDuplicateClasses'.
> 1 exception was raised by workers:
java.lang.RuntimeException: Duplicate class com.android.billingclient.BuildConfig found in modules billing-3.0.3-runtime.jar (:billing-3.0.3:) and com.android.billingclient.billing-4.0.0-runtime.jar (:com.android.billingclient.billing-4.0.0:)
    Duplicate class com.android.billingclient.api.AccountIdentifiers found in modules billing-3.0.3-runtime.jar (:billing-3.0.3:) and com.android.billingclient.billing-4.0.0-runtime.jar (:com.android.billingclient.billing-4.0.0:)
    Duplicate class com.android.billingclient.api.AcknowledgePurchaseParams found in modules billing-3.0.3-runtime.jar (:billing-3.0.3:) and com.android.billingclient.billing-4.0.0-runtime.jar (:com.android.billingclient.billing-4.0.0:)
    Duplicate class com.android.billingclient.api.AcknowledgePurchaseParams$Builder found in modules billing-3.0.3-runtime.jar (:billing-3.0.3:) and com.android.billingclient.billing-4.0.0-runtime.jar (:com.android.billingclient.billing-4.0.0:)
    Duplicate class com.android.billingclient.api.AcknowledgePurchaseResponseListener found in modules billing-3.0.3-runtime.jar (:billing-3.0.3:) and com.android.billingclient.billing-4.0.0-runtime.jar (:com.android.billingclient.billing-4.0.0:)


```

If you go to make a build and it complains that the gradle build failed:

Solution:

Delete a file: com.android.billingclient.billing-4.0.0.aar inside of the Plugins/Android folder.
Whenever Unity performs the Android dependency resolver, this file will be brought back.

Error: Duplicate classes/files

Solution: This could mean an SDK got updated and the old files didn't get deleted. Go to the plugins folder in Android and check if there are duplicate versions of the same file (for example, a file with version 1.0.0 and a file with version 1.1.0). Delete the old version of the file and keep the new one if you updated an SDK. This is a way to manually resolve dependencies.