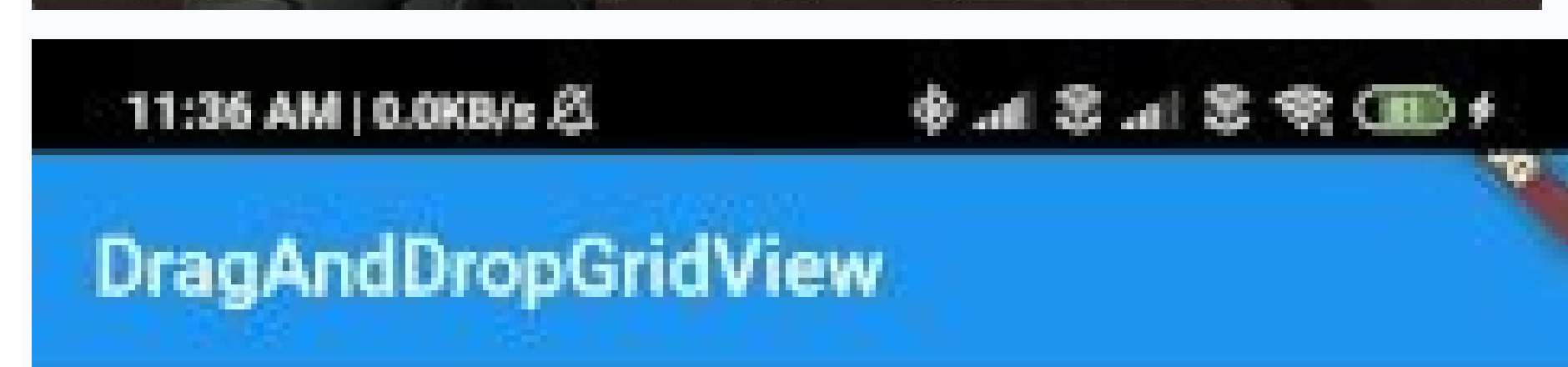
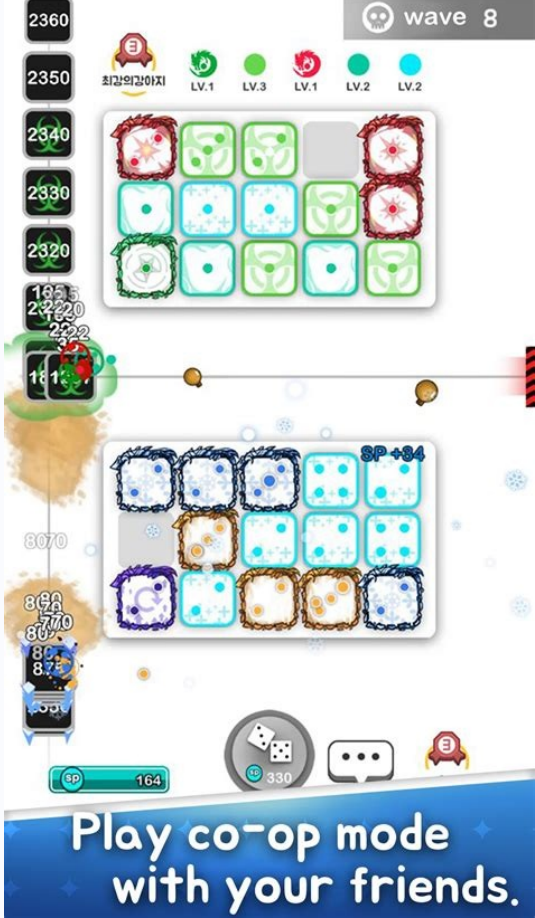


Create release apk flutter

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Create release build flutter. Create apk from flutter.

This tutorial shows you how to build APK files for Android for applications developed using Flutter. APK (Application Package File) is a format used by Android operating systems for distribution and installation. After you build an application, it's quite common to build APK files to be tested across different devices. If the application is developed using Flutter, you can easily build APK files by using flutter build apk command. In this tutorial, I am going to show you how to build APK files for Android using Flutter. This includes how to set the mode (release, debug, or profile), set the main entry point, split per ABI, set target platforms, set the build name and version, build flavor APK, and obfuscate the code. Set Mode Build Release APK By default, if not specified, the generated APK files use release mode. flutter build apk The above command is the same as the below command which explicitly uses release mode. flutter build apk --release Build Debug APK For debug mode, you need to add --debug flag. flutter build apk --debug Build Profile APK For profile mode, you need to add --profile flag. flutter build apk --profile Set Main Entry-Point File A Flutter application has a file as the main entry-point. That's the first file to be run when the application is launched (similar to MainActivity in Android). By default, lib/main.dart is set to be the main entry-point. If you want to change that, you can pass --target= flag. The example below changes the entry-point to lib/home.dart flutter build apk --target=lib/home.dart Android devices use various CPUs. A large portion of devices uses ARM-based CPUs, while some devices use Intel x86 CPUs. In addition, old devices use 32-bit CPUs, while the majority of devices released in recent years already use 64-bit CPUs. Those different CPUs support different instruction sets. By default, Flutter only generates an APK that works for all platforms. But that causes a problem regarding the build size of the APK. It becomes very big in order to support those different instruction sets. Fortunately, Flutter already provides an easy way to split the APK files per ABIs. You only need to add --split-per-abi flag and Flutter will generate multiple APK files, each for a specific platform. flutter build apk --split-per-abi The result of the above command will generate the below platform-specific APK files. app-arm64-v8a-release.apk app-armeabi-v7a-release.apk app-x86_64-release.apk Actually, Flutter supports four target platforms: android-arm, android-arm64, android-x86, android-x64. However, android-x86 is not included by default. To specify which target platforms you want to include, you can add --target-platform flag with a comma-separated list of the target platforms as the value. The --split-per-abi flag is still required if you want to generate multiple APK files for different ABIs. Without --split-per-abi flag, it will generate a single APK file that's compatible only for the specified platforms. flutter build apk --target-platform android-arm64,android-arm --split-per-abi At the time this post was written, Flutter doesn't support to build release version for x86 ABI. You can only build the debug version if you want to create an APK that supports x86 devices. Set Build Name and Version The build name and build number of a Flutter application is defined in the version property of pubspec.yaml file. The value of version is a three numbers separated by dots which specifies the build name, followed by an optional build number separated by a '+'. For example, version: 1.0.1+2 means the build name is 1.0.1, while the build number is 2. The build name is the one that's shown to the users, while the build version is used as an internal version number. Changing the version name and number can be done by changing the version property in the pubspec.yaml. There's an alternative way if you want to build APKs with different version name and number from the value in the pubspec.yaml file. You can pass --build-name and --build-number flags to override the value for build name and build version respectively. flutter build apk --build-name=1.0.2 --build-number=3 An application can have multiple flavors and Flutter also supports to build APK. You can do it by passing --flavor flag. For example, if your application has a flavor named 'pro', the command is flutter build apk --flavor=pro Flutter applications use Dart program symbols. To reduce the application size in release build, you can use --split-debug-info command, which is used to store the Dart program symbols in a separate file on the host rather than in the application. The flag requires an argument which specifies the directory where program symbol files are stored. By adding the flag, you need to use flutter symbolize command to obtain a human readable stack trace. The flag cannot be used together with --analyze-size flag. flutter build apk --split-debug-info build/app/outputs/symbols Code Obfuscation Code obfuscation is a technique to make the source code more difficult to be read by human. It's usually used to prevent people from reverse engineering your application. Flutter also supports this feature. You can add --obfuscate flag, which must be followed by --split-debug-info flutter build apk --obfuscate --split-debug-info build/app/outputs/symbols By default, the flutter pub get command will be run every time you run the build command. To disable it, you can add --no-pub flag. flutter build apk --no-pub Analyze Size If you want to analyze the size of a generated APK file, add --analyze-size flag in the command. It only works for release mode and you must specify exactly one platform using --target-platform flag. flutter build apk --target-platform android-arm64 --analyze-size Below is the output example of running the above command. app-release.apk (total compressed) 5 MB ----- res/mipmap-xxxhdpi-v4 1 KB lib/arm64-v8a 5 MB Dart AOT symbols accounted decompressed size 3 MB package:flutter 2 MB dart:core 307 KB dart:typed_data 217 KB dart:ui 188 KB dart:async 114 KB dart:collection 111 KB dart:convert 58 KB dart:isolate 38 KB dart:io 38 KB package:vector_math 30 KB dart:developer 10 KB package:typed_data/src/typed_buffer.dart 7 KB package:collection/src/priority_queue.dart 5 KB dart:math 4 KB dart:ffi 4 KB package:fluttersimpleapp/main.dart 3 KB dart:vm_service 2 KB dart:mirrors 697 B dart:nativerappers 383 B Never 63 B META-INF/MANIFEST.MF 2 KB CERT.SF 3 KB kotlin-stdlib.kotlin_module 1 KB CERT.RSA 1013 B assets/flutter_assets 184 KB kotlin/reflect 2 KB collections 1 KB kotlin.kotlins_builtins 4 KB resources.arsc 23 KB AndroidManifest.xml 1013 B classes.dex 120 KB That's how to build APK files in Flutter. You can run flutter build apk --help to get the list of available flags. After making a complete app in Flutter, we all want to upload it to play store. But the thing is, when we build apk initially that one is debug apk by default not the release apk. While publishing app to playstore we need release apk and the procedure to make release apk are: Create .jks File Step I At first we need to create keystore file which is of jks format. So for this, we'll run the below code in terminal: PART1 means put the location of keystore.jks file. Instead of PART1 put like below: D:\Flutter\Demo\key.jks Note: File location will be in backward slash "\" PART2 means keystore file name. Instead of PART2 put key. So the final code will be: Step II After running that above code, you hit enter key. It will ask you to enter keystore password (for trial, I had entered demo0909). After entering password do remember that password and re-enter it. Step III In this step, it will ask you many questions like first name, last name, organization name and so on. But we'll gonna skip these step by hitting enter key to all the 6 questions, and your console look like this: Step IV In the step we will type Yes for the asked question. Step V In this step, you'll have to enter key password (for trial key password is key0909) and do remember this also and re-enter that again. After this, .jks file has been created to the location you had put in the first step. Create key.properties File Go inside android folder and create key.properties file. Write the code like this: Note: File location in the storeFile will be in forward slash "/" Release Apk Setup Go inside app level build.gradle file. Add 3 after line containing apply plugin text: Under android add one function called signingConfigs and replace debug with release under buildTypes { release { ... } } like this: Build Release Apk After doing all the above steps, go to the terminal and run the below command to get release apk: After this, you will get the release apk and you will publish it to playstore with no issue. For more info buy the book "Make Yourself The Software Developer: Let's Dive into Flutter & MNCs" buy. Thank you. Keep Coding and Keep Learning

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