



INTRODUCTION TO FLUTTER





AGENDA



01 What is Flutter?

02 Pre-requirements to learn Flutter

03 Why you need Flutter?

04 Flutter Architecture

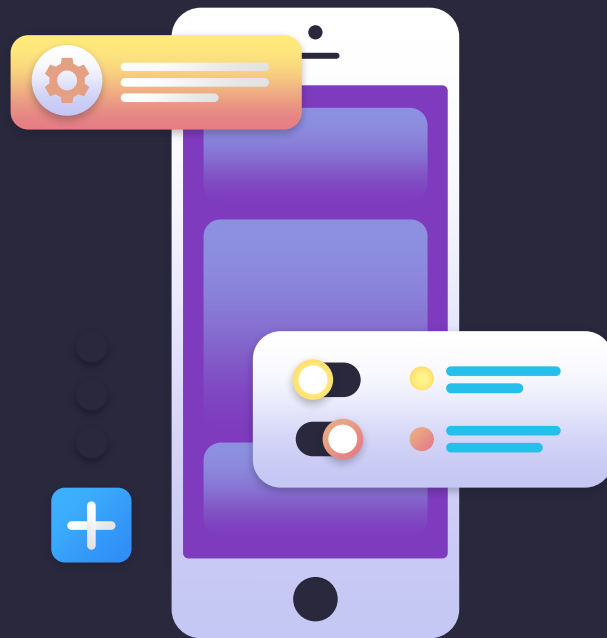
05 Demo





01


WHAT IS FLUTTER?



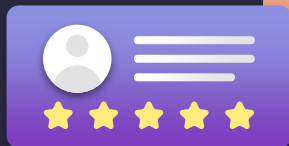
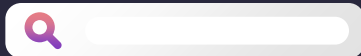


What is Flutter?



- ⚡ Flutter is an open-source Software Development Kit (SDK) to build native cross-platform applications for Android, iOS, Linux, Mac and Windows.
- ⚡ Developed and managed by Google
- ⚡ Initial released in May 2017 (*4 Years ago*)
- ⚡ Use the “Dart”  programming language.
- ⚡ Dart is a programming language that used to build frontend UIs





02 PRE REQUIREMENTS





Flutter Pre-requirements



- ◆ Install Dart programming language to your machine
- ◆ Learn Dart language basics. (*variables, loops, if-else etc.*)
- ⚡ Install Flutter SDK and Android Studio
- ⚡ Install VS Code
- ⚡ *You can use Android Studio as well, but VS Code better 😊*





03

WHY YOU NEED TO LEARN FLUTTER?





Why you need to learn Flutter?



- ⚡ Add a huge benefit in your 3rd Year 2nd Semester UEE project.
- ⚡ Same UI and Business logic that work on both iOS and Android.
- ⚡ Reduce the code development time.
- ⚡ Provide native application performance.
- ⚡ Active community support.





04 FLUTTER ARCHITECTURE





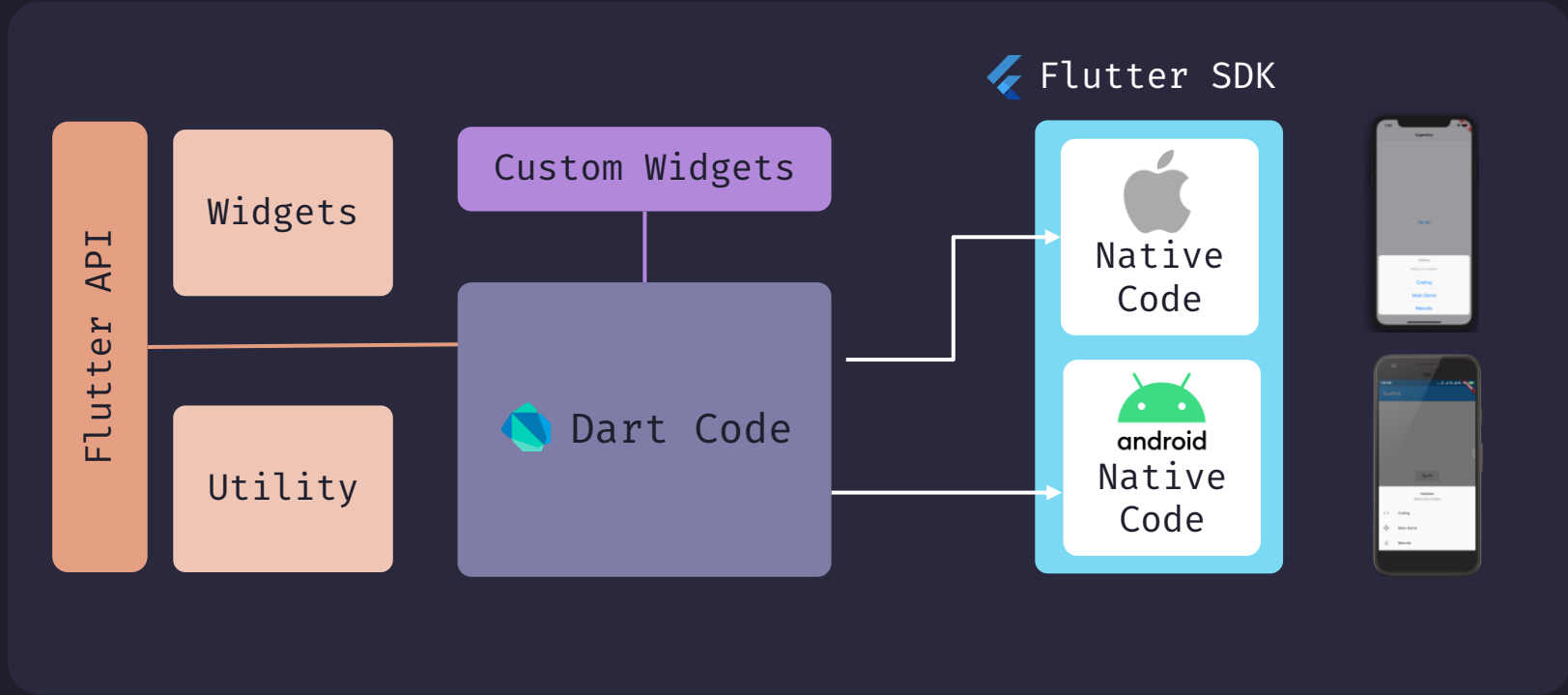
Flutter Architecture



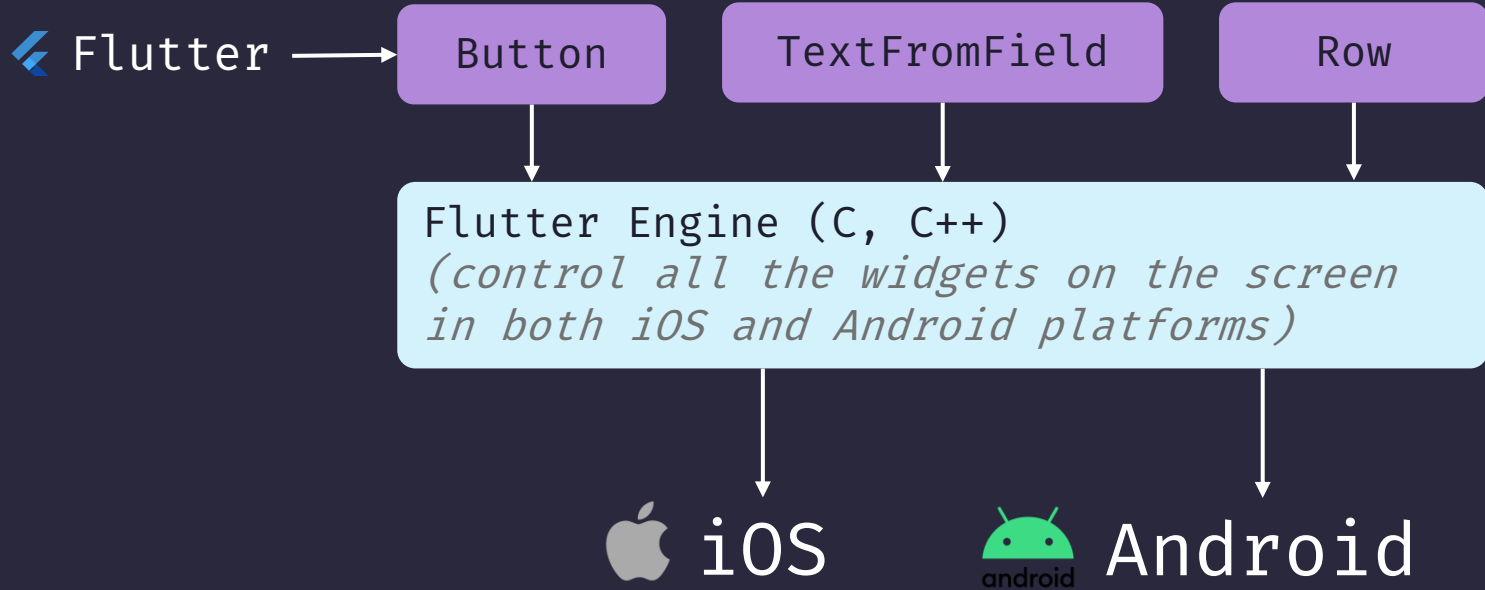
- The idea of flutter is building “UI as Code”
- No way to drag and drop UI elements (*like in Android Studio*)
- Can implement “One codebase” that support both iOS and Android
- In Flutter all the elements are “Widgets”



Flutter Architecture Cont.



Flutter Architecture Cont.





05

DEMO

Let's build the first Flutter app





THANK YOU!

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References



- ⚡ Official Documentation: <https://docs.flutter.dev/>
- ⚡ Install Flutter: <https://youtu.be/fDnqXmLSqtg>
- ⚡ Flutter course for beginners: <https://youtu.be/x0uinJvhNxI>

