

# CASH MANAGER

## Technical documentation

Front-End / Flutter

### OUR AGENDA :

- WHAT IS FLUTTER
- WHY WE USED FLUTTER
- HOW FLUTTER WORKS
- FLUTTER INSTALLATION
- OUR APPLICATION

## What and Why Flutter ?

What is flutter ?

Flutter is an open-source mobile SDK developer can use to build native-looking Android and iOS applications from the same code base.

Benefits of Flutter ?

Flutter is an open-source technology. There are also helpful resources for Flutter and they are all free.

Flutter is a cross-platform development tool. That means software developers can use the same code base for building an iOS and Android app. This method can save your time and resources throughout the development process.

Excellent performance :

Two reasons for the outstanding performance :

- 1) Flutter uses Dart which compiles into native code
- 2) Flutter has its own widgets and there's less communication between the app and the platform.

Quick development

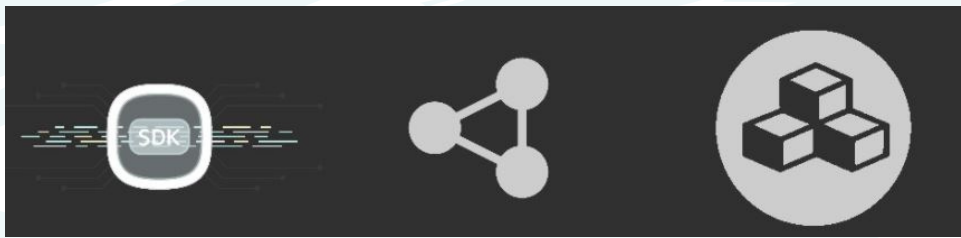
We can instantly view the changes applied to the code on emulators. It is easier to use and accelerates the development process

Compatibility

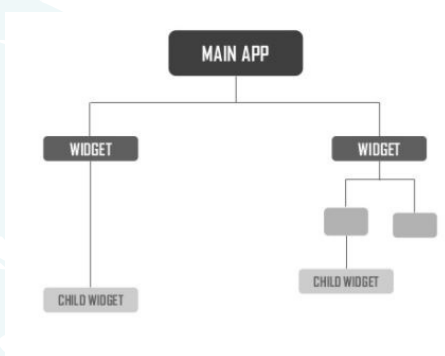
Another advantage of Flutter is the fact that it comes with its own widgets that result in fewer compatibility issues

Flutter is one of the most innovative mobile technologies on the market right now.

## How Flutter works ?

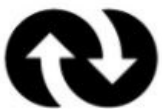


A software development kit (SDK ) is typically a set of software development tools that allows the creation of applications. A framework is a platform for developing software applications. Uniformity is generally required because most applications are released for both platforms Android and IOS



An application built using flutter is designed using widgets. So the entire application becomes a tree of widgets. Some widgets are just for layout precision while others for visual enhancement.

There are different types of widgets :



**STATEFUL WIDGET :**  
This is a Widget that can be changed dynamically. Stateful Widgets are mutable and can be drawn multiple times within its lifetime.



**STATELESS WIDGET :**  
This is a Widget that is immutable once built. To redraw a stateless Widget, a new instance must be created.

Flutter uses Dart as the programming language.



Flutter is a framework written in Dart language for building native applications for IOS and Android platforms. Since it is written in Dart, understanding of the basic concepts of Dart language is essential to work with Flutter.