

Assignment 1

- **What is Flutter?**

Flutter is an application development platform that allows developers to build cross-platform applications launched by Google in 2017. It is an open-source and free software development kit that allows designing IOS and Android applications using a particular codebase. Flutter contains user interface toolkits with widgets allowing developers to build and deploy natively compiled applications for multiple platforms.

- **What is Dart?**

Dart is an open-source object-oriented programming language. One of the main features of Dart is that it's an asynchronous language meaning it renders multi-threading using isolate, which are entities linked to threads but don't share memory and form. Dart contains pre-built helpful libraries such as Math, convert, SDK, etc. Dart renders two types of compilation processes 1) JIT (Just in Time) and 2) AOT (Ahead of Time), with both compilers Dart can run efficiently in modern website browsers.

- **What is Integrated Development Environment (IDE)?**

IDEs are software for building applications that combines multiple developers' tools into a single Graphical User Interface (GUI). IDE consists of a text editor that assists in writing codes with features such as checking for bugs and auto-completion, local build automation that automates repeatable tasks, and debugging. IDEs allow developers to program efficiently and quickly, help developers organize their workflow and solve problems, and support many languages and operating systems.

- **References**

- 1- <https://blog.back4app.com/flutter-vs-dart/> - :~:text=Flutter is an Open-Source,and creates high-performance applications.
- 2- <https://www.redhat.com/en/topics/middleware/what-is-ide>