Flutter

31.01.2022
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BT19CSE040
SW-LAB-4
Assignment 1

About Flutter

Flutter is a free and open-source mobile UI framework created by Google and released in May 2017. In a few words, it allows you to create a native mobile application with only one codebase. This means that you can use one programming language and one codebase to create two different apps (for iOS and Android).

Flutter consists of two important parts:

- An SDK (Software Development Kit): A collection of tools that are going to help you develop your applications. This includes tools to compile your code into native machine code (code for iOS and Android).
- A Framework (UI Library based on widgets): A collection of reusable UI elements (buttons, text inputs, sliders, and so on) that you can personalize for your own needs.

To develop with Flutter, you will use a programming language called Dart. The language was created by Google in October 2011, but it has improved a lot over these past years. Dart focuses on front-end development, and you can use it to create mobile and web applications. If you know a bit of programming, Dart is a typed object programming language. You can compare Dart's syntax to JavaScript.

Installation

Follow this link to download and install flutter:

https://docs.flutter.dev/get-started/install

Alternatively you can follow the following video:

For windows: https://youtu.be/UmstGbt6fkA

For Mac: https://youtu.be/YVaFoCiQ2SI

For Linux: https://youtu.be/cYB_I6pPHiQ

Links and Resources:

Best resource for learning flutter is the official documentation:

https://docs.flutter.dev/

You may also look into:

Tutorials (You may choose any one of them)	https://www.youtube.com/watch?v=6ZCz6Ylqk3A https://www.youtube.com/watch?v=1gDhl4leEzA https://www.youtube.com/watch?v=x0uinJvhNxI
Material.io Resources Docs	https://material.io/components?platform=flutter
Layout	https://docs.flutter.dev/development/ui/layout https://medium.com/flutter-community/flutter-layout-cheat-sheet-5363348d037e