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MAD and PWA Lab
Prerequisites

Aim: To understand the prerequisites of installing and using flutter.

Theory:
Flutter app development technology has recently gained popularity, with many companies that maintain native applications opting to port their applications to Flutter to save time managing two platforms at once.

There is also a large Flutter development community that is constantly creating new libraries, as well as an increasing number of startups that are choosing to write their solutions in Flutter.

- Advantages of flutter:
  There are no cross-platform issues because Flutter is compiled ahead of time, providing native code experience.
- No need to rebuild: "Hot reload" enables developers to see code changes immediately after they are saved.
- Excellent community and support: The Flutter team is extremely helpful, and the community offers plenty of assistance to new users.
- Using 2-dimensional Flares, you can create an infinite number of animations.
- Many IDEs are supported, including VS Code, Android Studio, and others.
- Single code for both frontend and backend using Dart language (Dart, built by Google is a general-purpose programming language).
- Flutter Developers are in high demand and well-paid!
- Easy-To-Learn
- Projects are delivered timely so it automatically maximizes productivity

Prerequisites for Learning Flutter
To begin learning Flutter, you must be familiar with the following. If you don't know any of the following concepts, it is best to learn them first before continuing on your Flutter journey:

- If you want to create specific and sophisticated applications, you should be familiar with native Android app development.
- Concepts for OOPS: Because languages like Java and C++ are based on OOPS concepts, it is critical to understand them thoroughly.
- Before you can learn Flutter, you must first learn Dart programming, which is also simple.
- Knowing C++/Java is advantageous but not required!

How to start learning Flutter?
Install Flutter SDK
You must install the Flutter software development kit on your PC before you start studying Flutter. This SDK has a collection of tools in one place.

Flutter now supports two IDEs aka integrated development environments. It is a software application that lets the provider of Flutter app development services create software code hassle-free.

Android Studio
Having Android Studio or IntelliJ IDE already installed on your PC can be a plus. Now, you can directly install the Dart as well as Flutter plugins and SDK. Thus you're ready to begin.

VS Code
VS Code, also known as Visual Studio Code, is a lightweight and fast editor that is ideal for developing Flutter and web applications. To create Flutter apps with Visual Studio Code, first install the Dart and Flutter SDK extensions from the VS Code market, and then configure your SDK.