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Experiment - 1

Aim: Installation and Configuration of Flutter Environment.

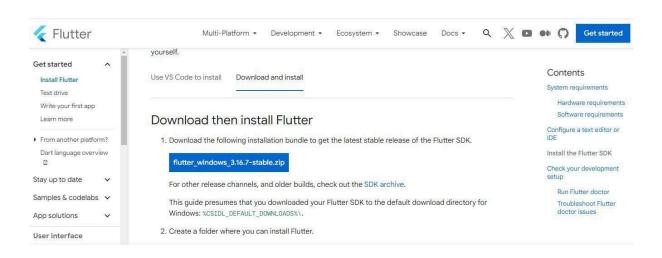
Theory:

Flutter is a popular open-source framework developed by Google for building natively compiled applications for mobile, web, and desktop from a single codebase. The framework is known for its expressive and flexible UI, hot reload feature, and high-performance rendering engine.

Flutter, at its core, is built on the principle of providing a unified user interface (UI) experience across multiple platforms. The framework's Dart programming language, along with its rich set of customizable widgets, allows developers to create consistent and visually appealing UIs that can seamlessly adapt to different devices and screen sizes.

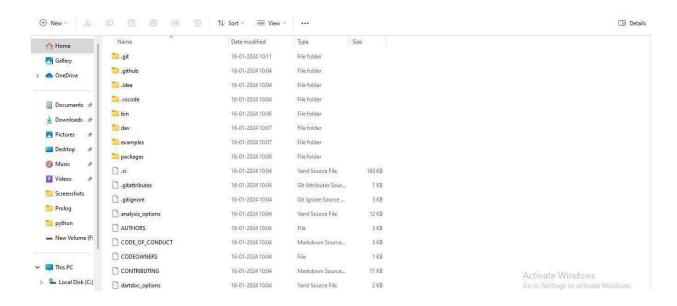
Steps 1:

Download the latest version of Flutter SDK



Step 2:

It's time to extract the zip file and move the contained flutter to the desired location for installing Flutter.



Step 3:

- 1. Type 'env' in the Start Search bar and select Edit environment variable for your account.
- 2. Now, check the entry called Path: under User variables .
- 3. If you don't find any such entry, append the full path to $flutter \setminus bin$ using; as a separator from existing values.
- 4. Create a new user variable named Path with the full path to flutter\bin as its value.

%USERPROFILE%\AppData\Local\Microsoft\WindowsApps	New
C:\Users\student\AppData\Local\Programs\Microsoft VS Code\bin	
C:\Users\student\Desktop\FlutterMe\flutter\bin	Edit
	Browse
	Delete
	Move Up
	Move Dowr

Step 4:

Run flutter doctor

Welcome to Flutter! - https://flutter.dev

The Flutter tool uses Google Analytics to anonymously report feature usage statistics and basic crash reports. This data is used to help improve Flutter tools over time.

Flutter tool analytics are not sent on the very first run. To disable reporting, type 'flutter config --no-analytics'. To display the current setting, type 'flutter config'. If you opt out of analytics, an opt-out event will be sent, and then no further information will be sent by the Flutter tool.

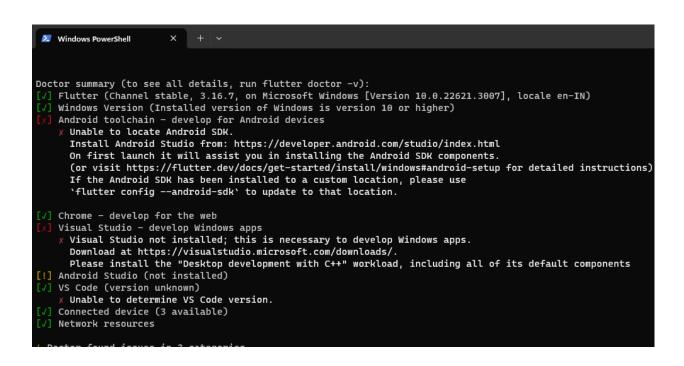
By downloading the Flutter SDK, you agree to the Google Terms of Service. The Google Privacy Policy describes how data is handled in this service.

Moreover, Flutter includes the Dart SDK, which may send usage metrics and crash reports to Google.

Read about data we send with crash reports: https://flutter.dev/docs/reference/crash-reporting

See Google's privacy policy: https://policies.google.com/privacy

To disable animations in this tool, use 'flutter config --no-animations'.

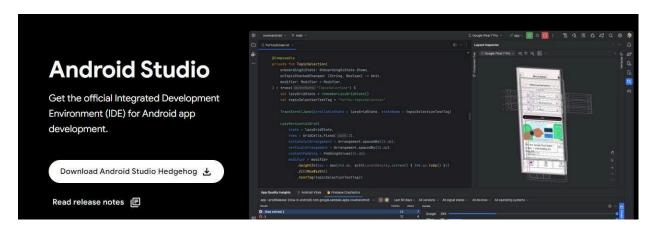


Installing Android Studio

Android Studio is the official IDE (Integrated Development Environment) for Android app development and it is based on JetBrains' IntelliJ IDEA software. Android Studio provides many excellent features that enhance productivity when building Android apps, such as:

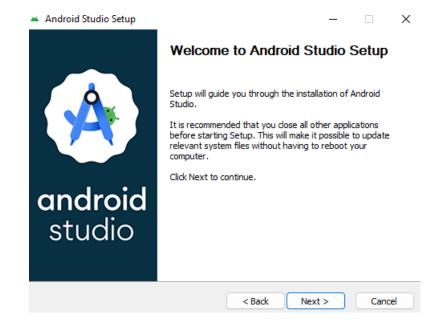
- A blended environment where one can develop for all Android devices
- Apply Changes to push code and resource changes to the running app without restarting the app
- A flexible Gradle-based build system
- A fast and feature-rich emulator

Step 1: Download Android Studio from the original website.



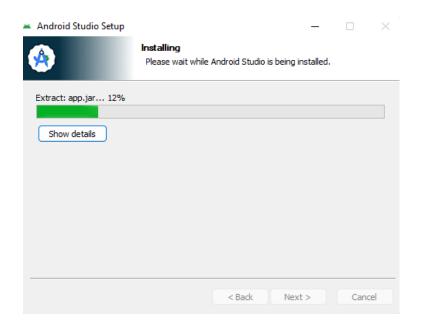
Step 2:

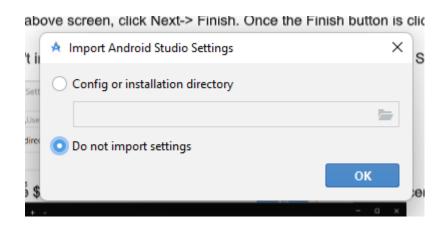
After the downloading has finished, open the file from downloads and run it. It will prompt the following dialog box.



Step 3:

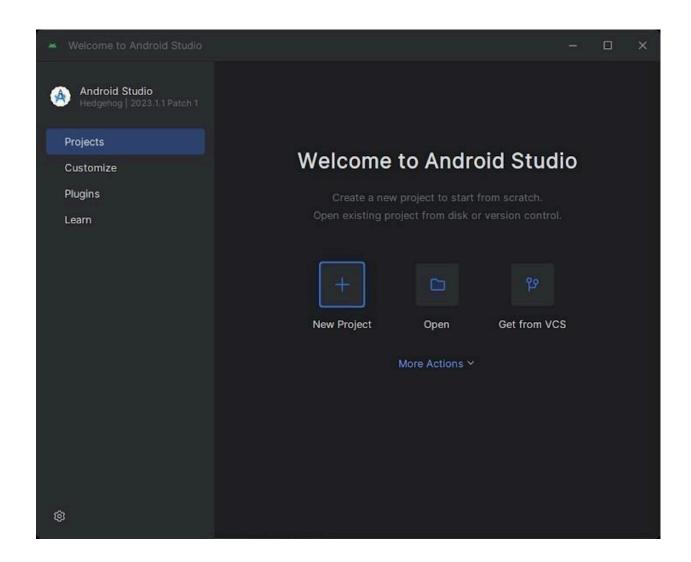
Install Android Studio.





Step 4:

Click on Start a new Android Studio project to build a new app.



Conclusion:

We have successfully installed and configured Flutter and Android Studio.