

Aim : Installation and Configuration of Flutter Environment.

Theory

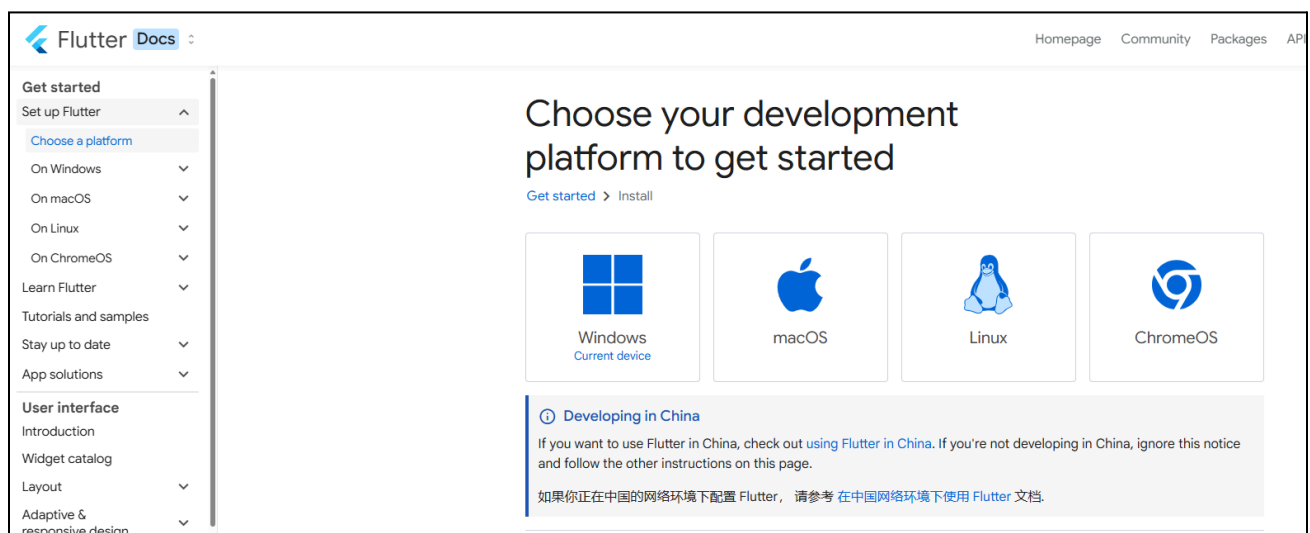
Flutter, an open-source UI development toolkit by Google, is widely used for building natively compiled applications for mobile, web, and desktop from a single codebase. The installation and configuration of the Flutter environment serve as the initial step for developers to harness this powerful framework for app development.

To achieve this setup, the process involves ensuring that all dependencies—such as the Flutter SDK, Android Studio, and required plugins—are appropriately installed. The configuration ensures the seamless functioning of Flutter's development and debugging capabilities. This experiment aims to familiarize developers with the essential tools and establish a robust development environment.

The underlying concepts include:

- **Flutter SDK:** A collection of tools, libraries, and documentation necessary for Flutter development.
- **Dart Programming Language:** The language used to write Flutter applications.
- **IDE Integration:** The role of Integrated Development Environments like Android Studio or Visual Studio Code in enhancing productivity.
- **Environment Variables:** Their importance in configuring tools like Flutter and ADB (Android Debug Bridge).

Steps :



Install the Flutter SDK

To install the Flutter SDK, you can use the VS Code Flutter extension or download and install the Flutter bundle yourself.

Use VS Code to install

Download and install

Download then install Flutter

To install Flutter, download the Flutter SDK bundle from its archive, move the bundle to where you want it stored, then extract the SDK.

1. Download the following installation bundle to get the latest stable release of the Flutter SDK.

[flutter_windows_3.29.3-stable.zip](#)

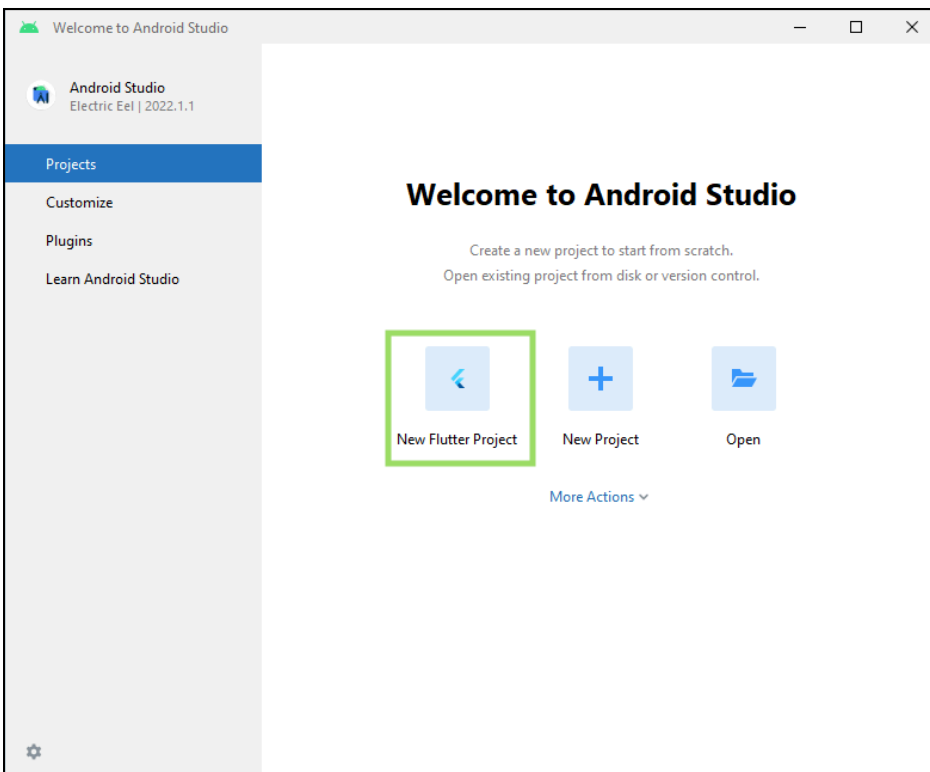
For other release channels, and older builds, check out the [SDK archive](#).

The Flutter SDK should download to the Windows default download directory: `%USERPROFILE%\Downloads`.

If you changed the location of the Downloads directory, replace this path with that path. To find your Downloads directory location, check out this [Microsoft Community post](#).

2. Create a folder where you can install Flutter.

Consider creating a directory at `%USERPROFILE%` (`C:\Users\{username}`) or `%LOCALAPPDATA%` (`C:\Users\{username}\AppData\Local`).



Conclusion: Thus we have successfully installed flutter and ran it to create a sample application.