

Ex No. 1

Study and Installation of Flutter in Android Studio

Aim

To study and install flutter in android studio.

Android Studio

Android Studio is the official Integrated Development Environment (IDE) for Android app development. Based on the powerful code editor and developer tools from IntelliJ IDEA , Android Studio offers even more features that enhance your productivity when building Android apps, such as:

- A flexible Gradle-based build system
- A fast and feature-rich emulator
- A unified environment where you can develop for all Android devices
- Live Edit to update composables in emulators and physical devices in real time
- Code templates and GitHub integration to help you build common app features and import sample code
- Extensive testing tools and frameworks
- Lint tools to catch performance, usability, version compatibility, and other problems
- C++ and NDK support
- Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud Messaging and App Engine

Flutter

Flutter is Google's Mobile SDK to build native iOS and Android, Desktop (Windows, Linux, macOS), and Web apps from a single codebase. When building applications with Flutter everything towards Widgets – the blocks with which the flutter apps are built. They are structural elements that ship with a bunch of material design-specific functionalities and new widgets can be composed out of existing ones too. The process of composing widgets together is called composition. The User Interface of the app is composed of many simple widgets, each of them handling one particular job. That is the reason why Flutter developers tend to think of their flutter app as a tree of widgets.

Flutter is an open source structure to make superior grade, elite execution versatile applications across portable working frameworks – Android and iOS. It gives a straightforward, strong, effective and straightforward SDK to compose versatile application in Google's own language, Dart. This instructional exercise strolls through the essentials of Flutter system, establishment of

Flutter SDK, setting up Android Studio to foster Ripple based application, design of Ripple structure and fostering all sort of portable applications utilizing Flutter structure.

Steps to install flutter in android studio

After the successful installation of Android Studio, you have to install Flutter and Dart plugins. To do so follow the steps mentioned below:

1. **Start** Android Studio.
2. Open plugin preferences (**Configure > Plugins as of v3.6.3.0 or later**).
3. Select the **Flutter** plugin and click Install.
4. Click Yes when prompted to install the **Dart** plugin.
5. Click **Restart** when prompted.

Result

Thus, flutter has been successfully installed in android studio.