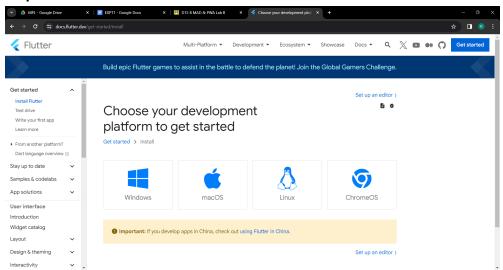
Aim: Installation and configuration of flutter

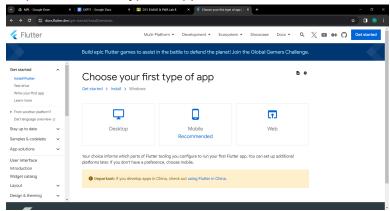
Theory: Flutter is an open-source UI software development kit created by Google. It is used to develop cross platform applications from a single codebase for any web browser, Fuchsia, Android, iOS, Linux, macOS, and Windows.

Install the Flutter SDK

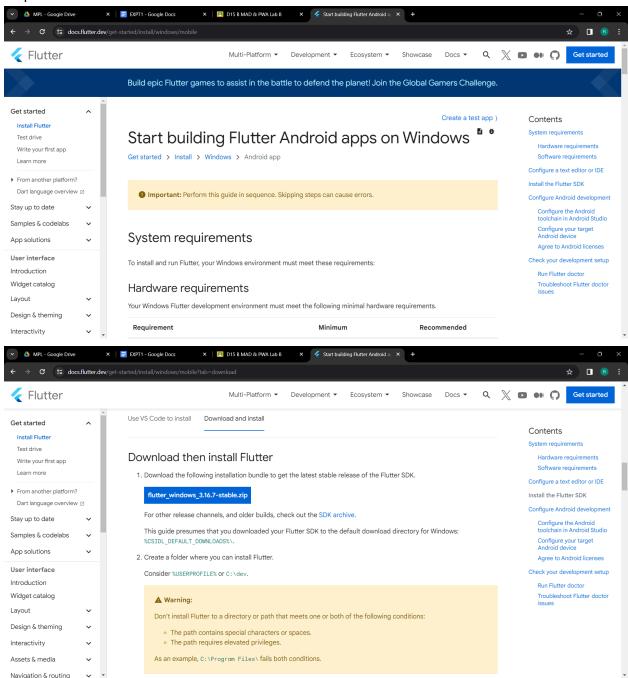
Step 1: Go to the official website of flutter.



Step 2:-Select the type of App

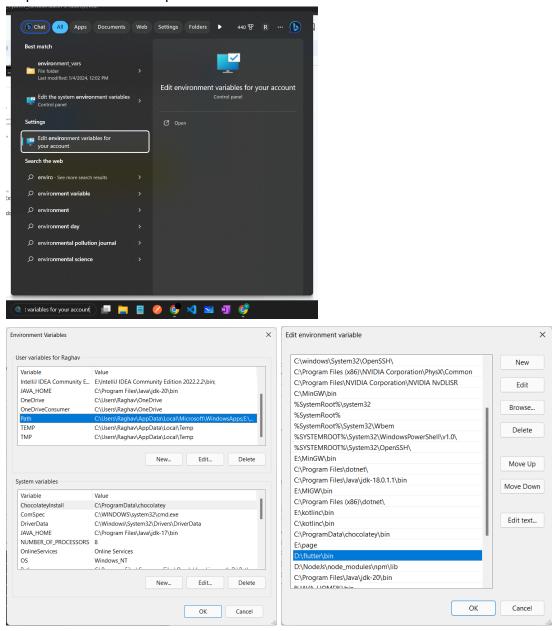


Step 3:- Download Flutter SDK



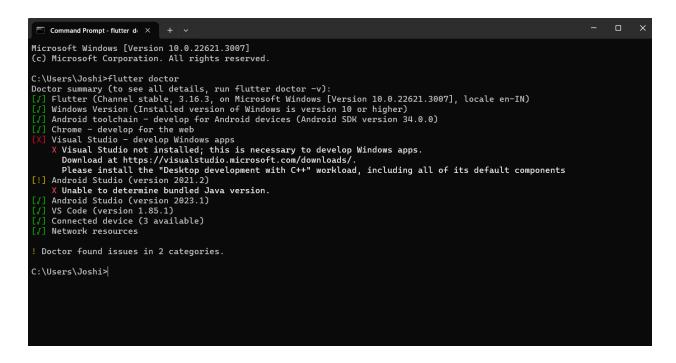
Step 4:- Extract the ZIP File

Step 5:-Add Flutter SDK path to environment variables



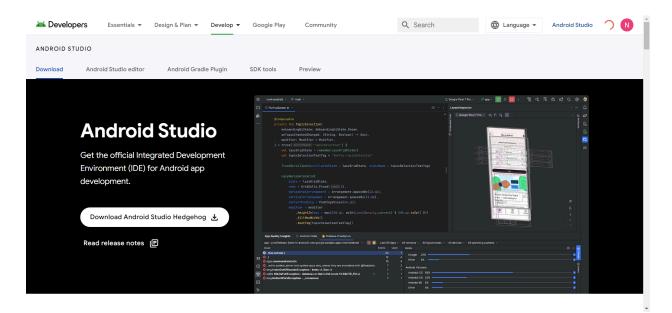
Step 6: Now, run the \$ flutter command in the command prompt.

Now, run the \$ flutter doctor command. This command checks for all the requirements of Flutter app development and displays a report of the status of your Flutter installation.

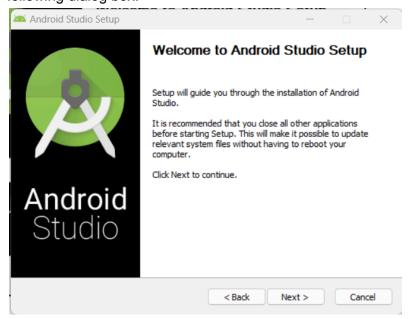


Step 7: When you run the above command, it will analyze the system and show its report, as shown in the below image. Here, you will find the details of all missing tools, which required to run Flutter as well as the development tools that are available but not connected with the device.

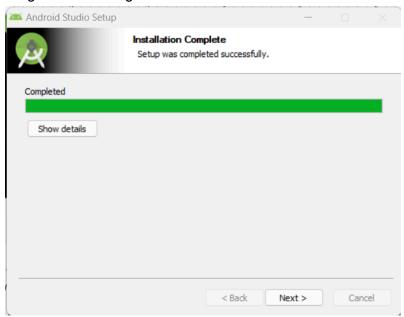
Step 8: Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE. To install Android Studio IDE, do the following steps.



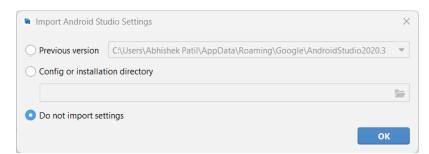
Step 9: When the download is complete, open the .exe file and run it. You will get the following dialog box.



Step 10: Follow the steps of the installation wizard. Once the installation wizard completes, you will get the following screen.



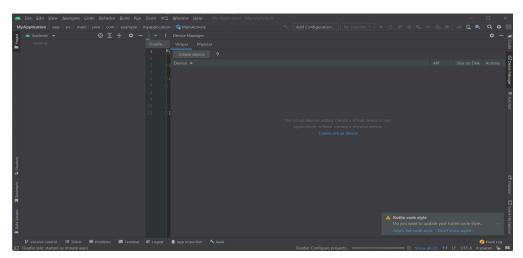
Step 11: In the above screen, click Next-> Finish. Once the Finish button is clicked, you need to choose the 'Don't import Settings option' and click OK. It will start the Android Studio.



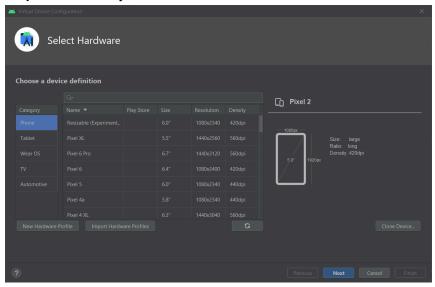
Step 12: run the \$ flutter doctor command and Run flutter doctor --android-licenses command.

Step 13: Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application.

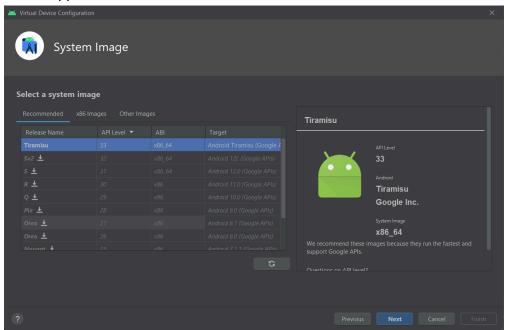
Step 14: To set an Android emulator, go to Android Studio > Tools > Android > AVD Manager and select Create Virtual Device. Or, go to Help->Find Action->Type Emulator in the search box. You will get the following screen.



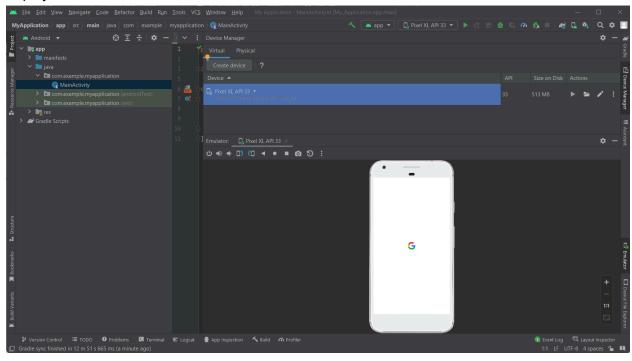
Step 15: Choose your device definition and click on Next.



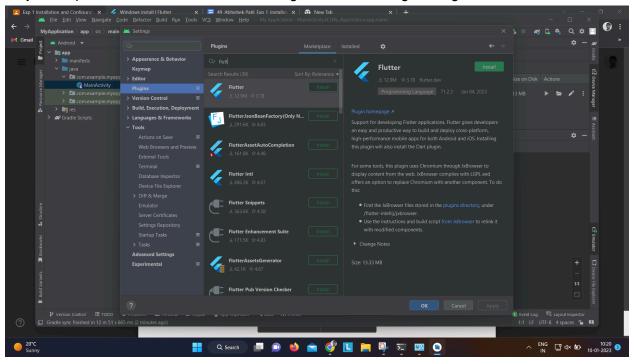
Step 16: Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen appears.



Step 17: Last, click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen.



Step 18: Open the Android Studio and then go to File->Settings->Plugins.



Step 19: Now, search the Flutter plugin. If found, select Flutter plugin and click install. When you click on install, it will ask you to install Dart plugin as below screen. Click yes to proceed.

Step 20: Restart the Android Studio.

Conclusion: Thus we have installed and configured flutter environments in our respective devices.