MPL Experiment 1

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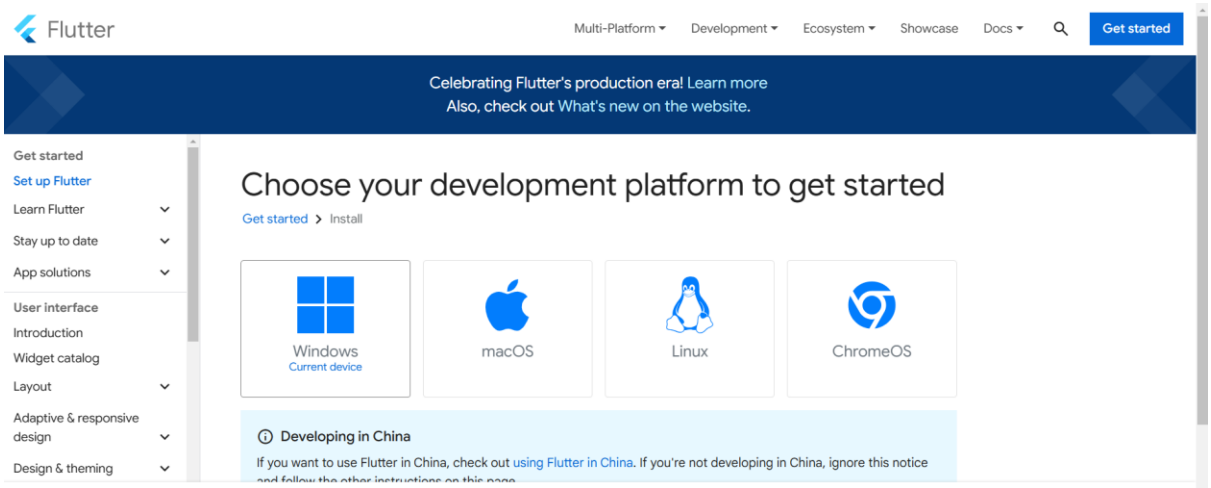
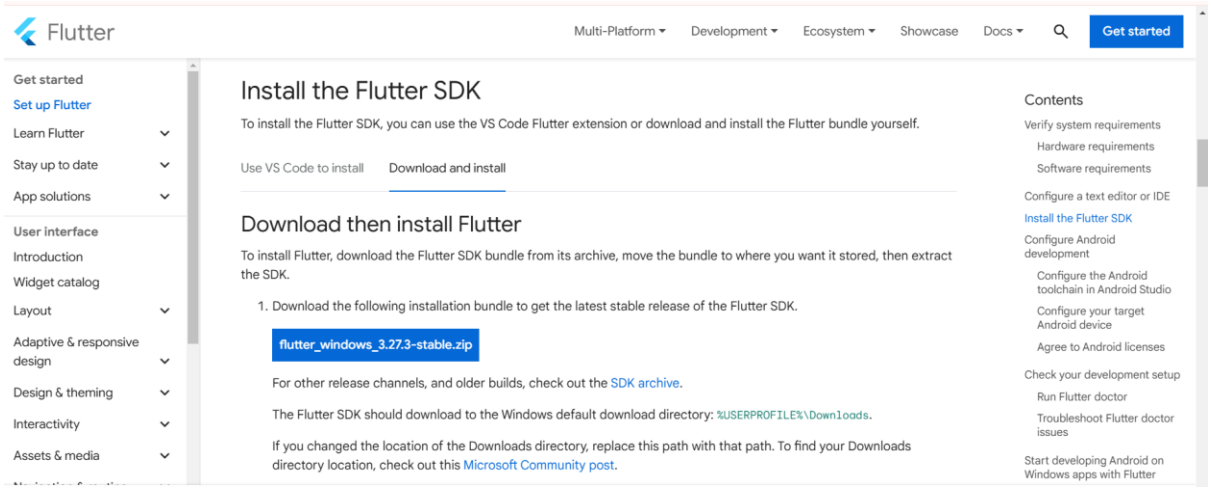
Aim: Installation and Configuration of Flutter Environment.

Step 1: Install Flutter

1. **Download Flutter SDK**

- Go to the official Flutter website.
- Click on "Get Started."
- Download the appropriate Flutter SDK for your operating system (Windows, macOS, or Linux).





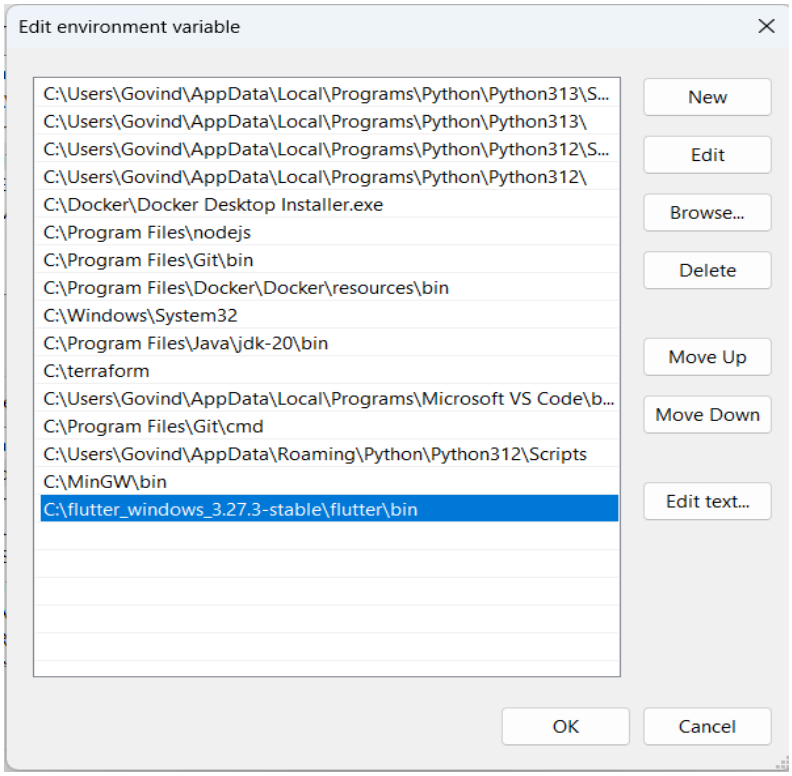
2. **Extract the Flutter SDK**

- Extract the downloaded zip file to a preferred location on your computer (e.g., C:\src\flutter for Windows).

3. **Add Flutter to the PATH**

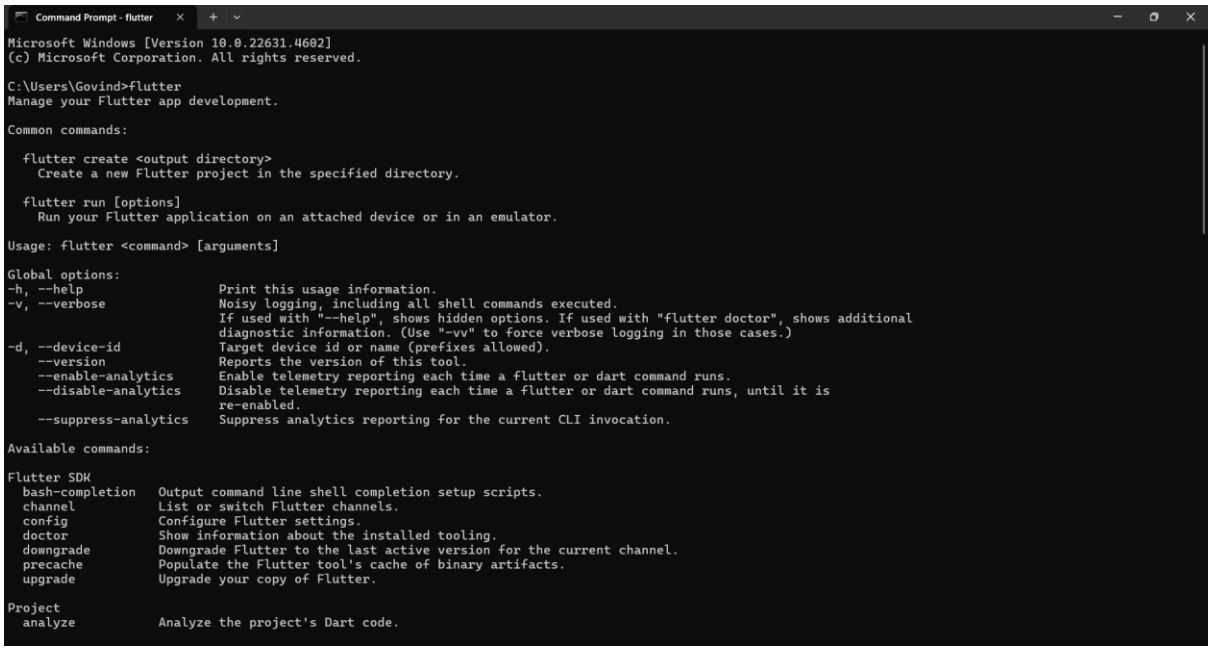
- Locate the flutter\bin directory in the extracted Flutter folder.
- Add this directory to your system's PATH environment variable.

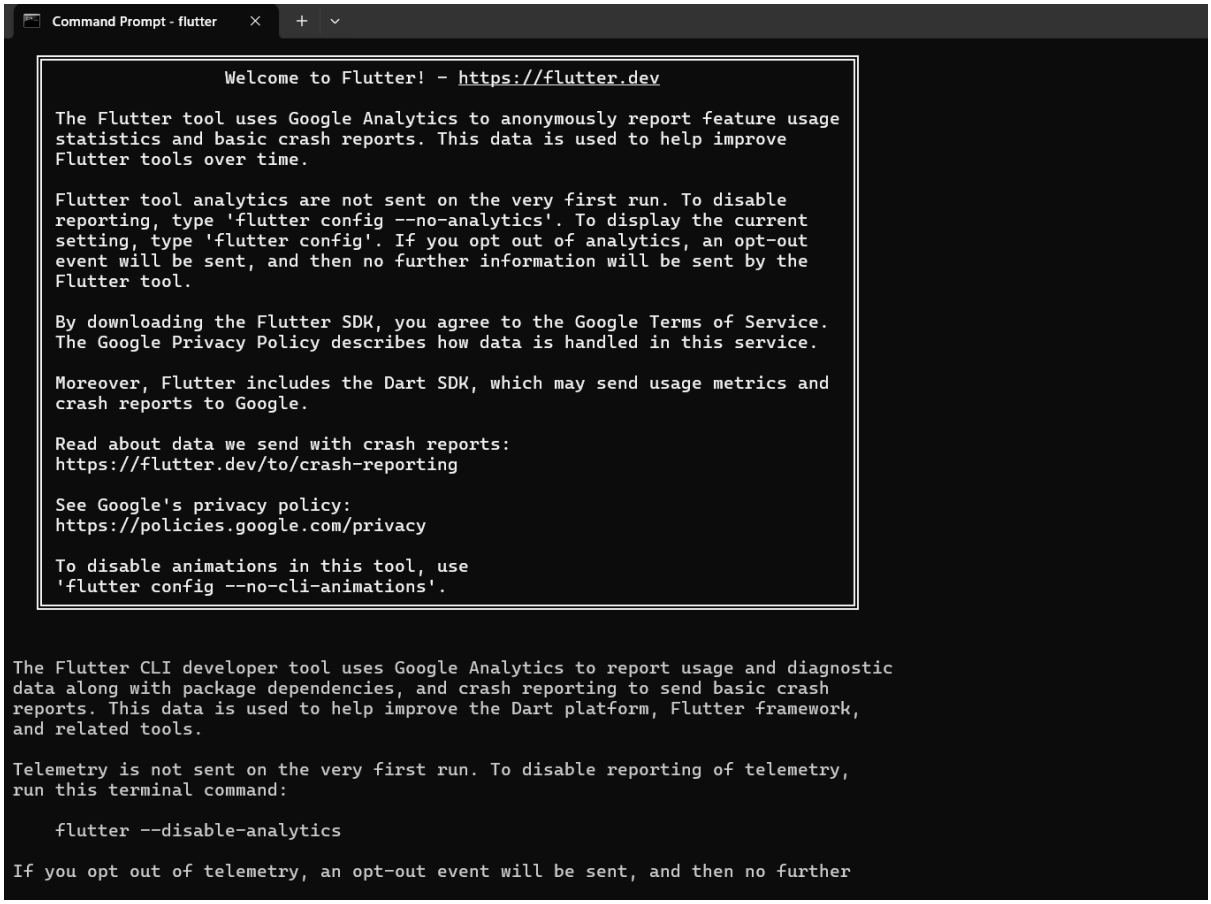
- Windows: Go to Environment Variables > Edit Path > Add the path to flutter\bin.



4. **Verify the Installation**

- Open a terminal or command prompt.
- Run the command: flutter and flutter doctor.
- Follow any additional setup instructions displayed in the output.

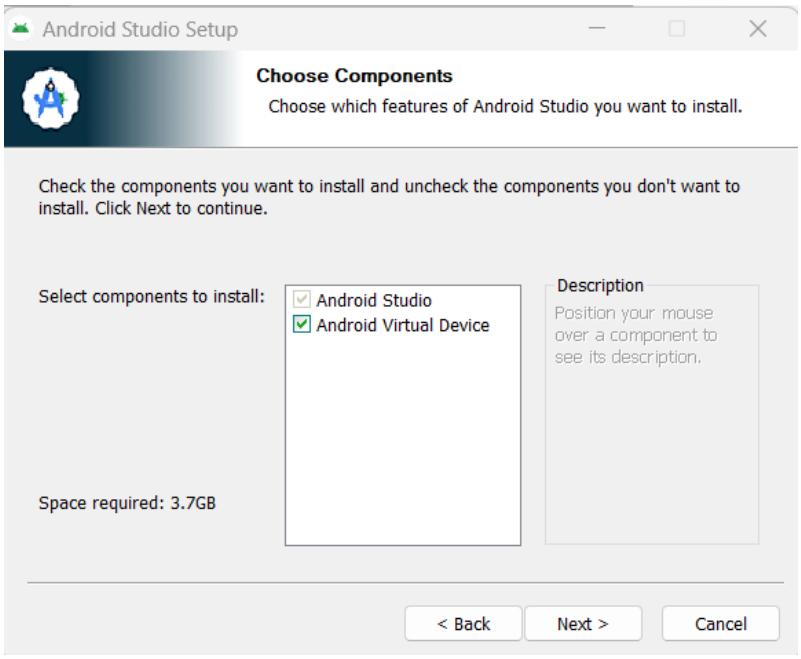




Step 2: Install Android Studio

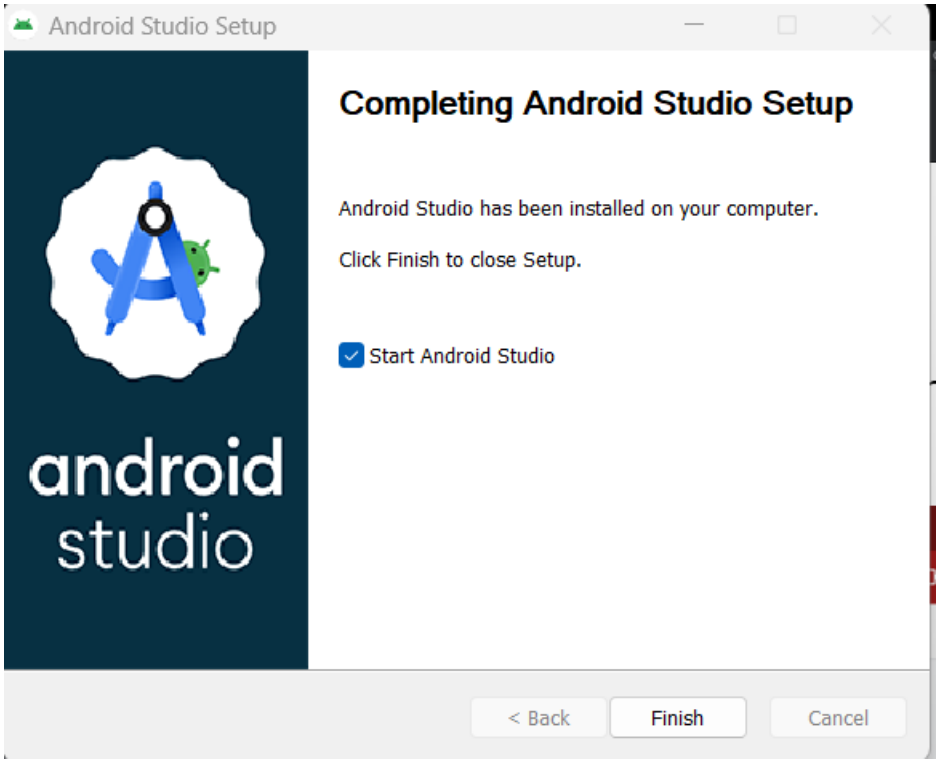
1. Download Android Studio

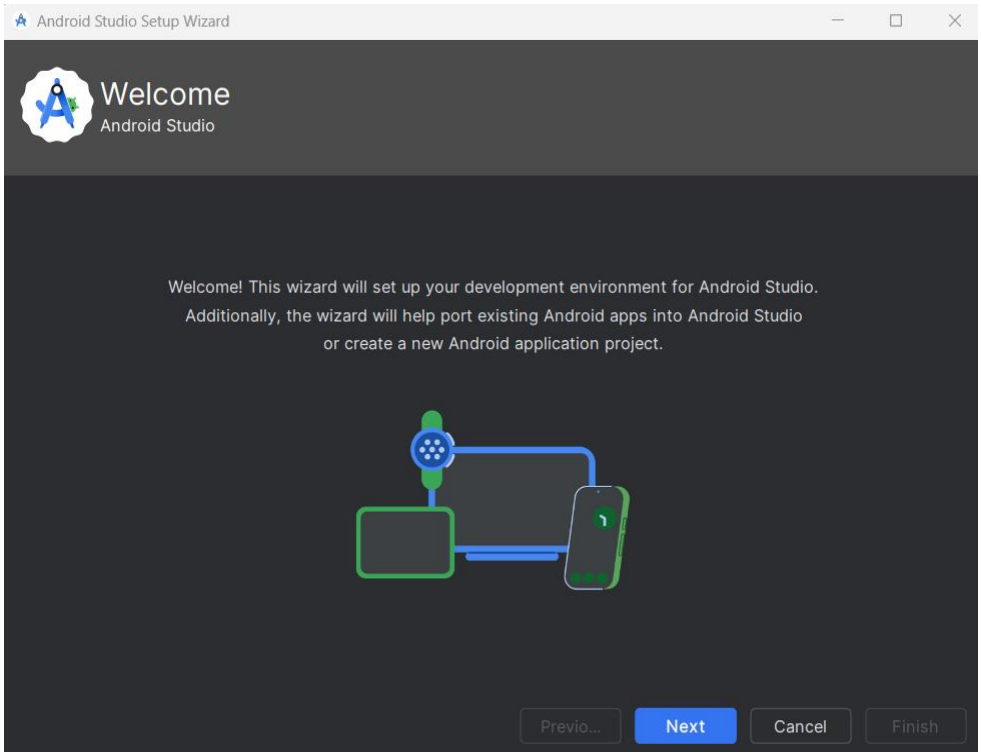
- Go to the Android Studio website.
- Download the installer for your operating system.



2. **Install Android Studio**

- Run the installer and follow the setup wizard.
- Choose the standard installation option.

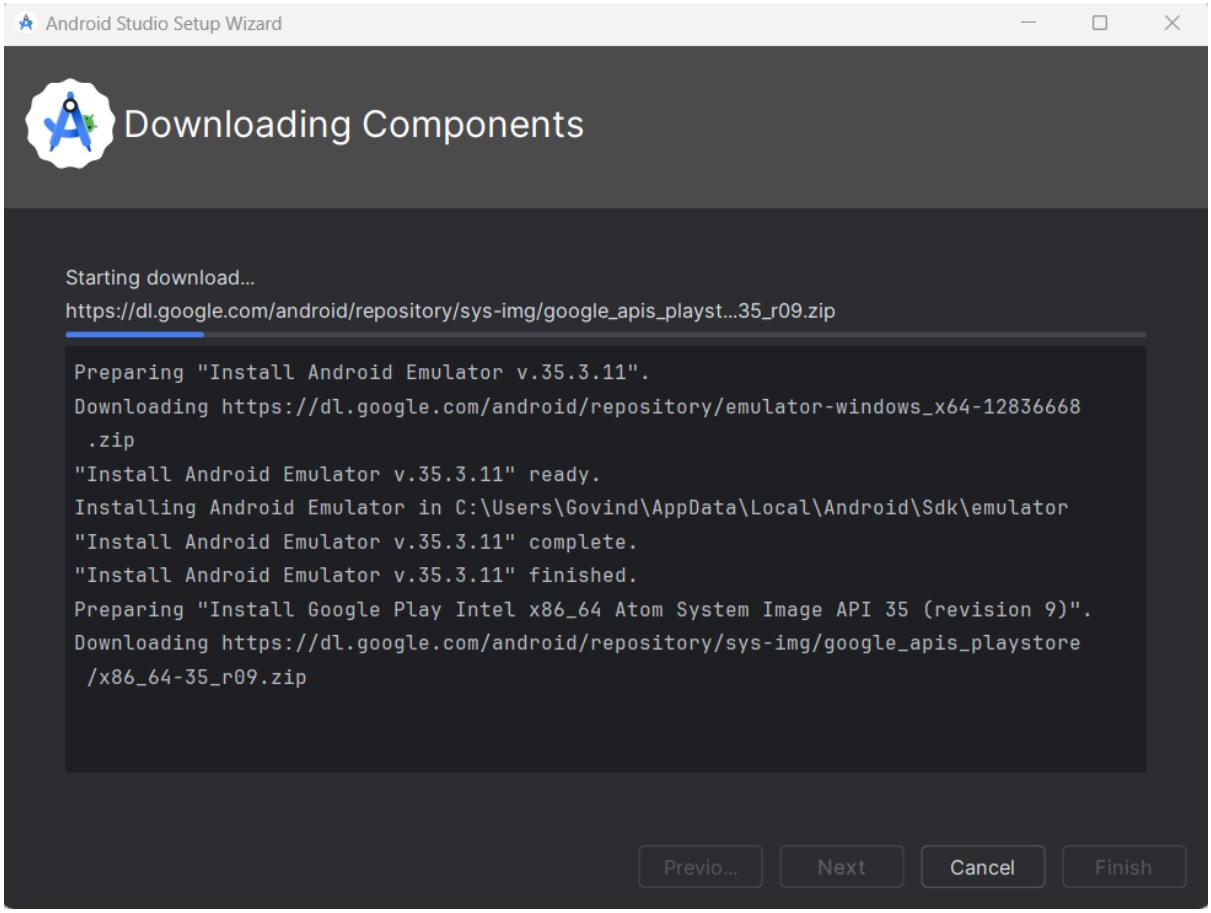




3. **Install Android SDK Tools**

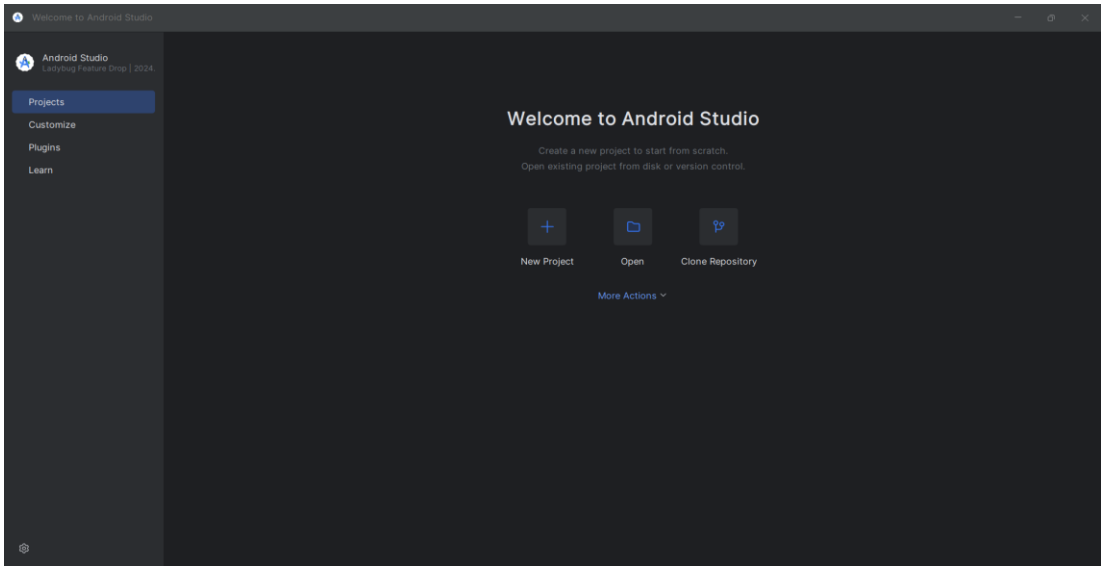
- Open Android Studio.

- **Go to Settings/Preferences > Appearance & Behavior > System Settings > Android SDK.**
- Select the latest Android API level.
- Ensure "Android SDK Platform" and "Android Virtual Device (AVD)" are selected.
- Click "Apply" and wait for the components to install.



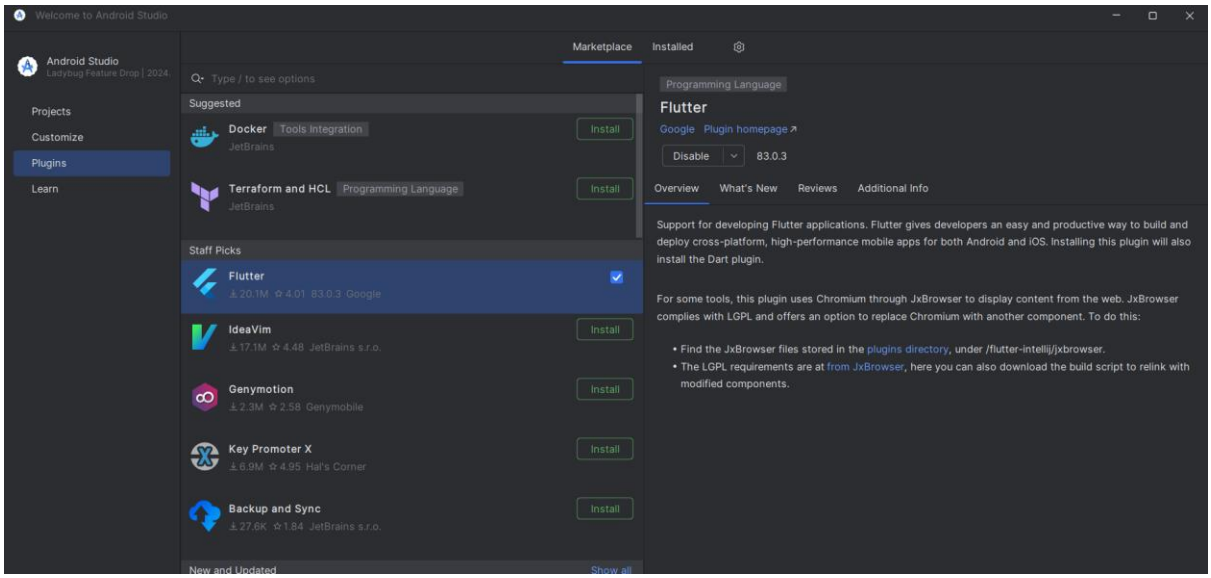
4. Set Up Android Emulator

- Go to Tools > Device Manager.
- Click "Create Device."
- Select a hardware profile and system image.
- Configure the emulator and click "Finish."



Step 3: Connect Flutter with Android Studio

- Install Flutter and Dart Plugins
- Open Android Studio.
- Go to File > Settings (Windows/Linux) or Android Studio > Preferences (macOS).
- Navigate to Plugins.
- Search for "Flutter" and click "Install." Dart will be installed automatically.
- Restart Android Studio.



Step 4: Test Flutter Installation

- Create a New Flutter Project
- Open Android Studio.
- Click on New Flutter Project.

- Enter project details and select the Flutter SDK path.
- Click "Finish" to create the project.

Conclusion: Flutter and Android Studio setup is now completed.