

EXP 1: Installation and Configuration of Flutter Environment.

Install the Flutter SDK

Step 1: Download the installation bundle of the Flutter Software Development Kit for windows. To download Flutter SDK, Go to its official website <https://docs.flutter.dev/get-started/install> , you will get the following screen.

The screenshot displays the Flutter documentation website. The top navigation bar includes links for Multi-Platform, Development, Ecosystem, Showcase, Docs, and a search icon. A blue banner at the top reads "Celebrating Flutter's production era! Learn more. Also, check out What's new on the website." The main heading is "Choose your development platform to get started". Below this, there are four buttons for Windows, macOS, Linux, and ChromeOS. The Windows button is highlighted with a blue border and the text "Current device". A light blue box below the buttons contains a note about developing in China. At the bottom, there is a cookie notice and an "OK, got it" button. On the left side, there is a sidebar with a list of links: Get started, Set up Flutter, Learn Flutter, Stay up to date, App solutions, User interface, Introduction, Widget catalog, Layout, Adaptive & responsive design, and Design & theming. Below the main content, there is a section titled "From another platform?" with links for Flutter for Android devs, Flutter for iOS devs, Flutter for React Native devs, Flutter for web devs, and Flutter for Xamarin.Forms devs. A light blue box with a note about Chrome OS is also visible.

Flutter

Multi-Platform Development Ecosystem Showcase Docs

Celebrating Flutter's production era! Learn more. Also, check out What's new on the website.

Choose your development platform to get started

Get started > Install

Windows Current device

macOS

Linux

ChromeOS

Developing in China
If you want to use Flutter in China, check out [using Flutter in China](#). If you're not developing in China, ignore this notice and follow the other instructions on this page.

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Note: Are you on Chrome OS?
If so, see the official [Chrome OS Flutter installation docs!](#)

Windows macOS Linux

Important: If you're in China, first read [Using Flutter in China](#).

From another platform?

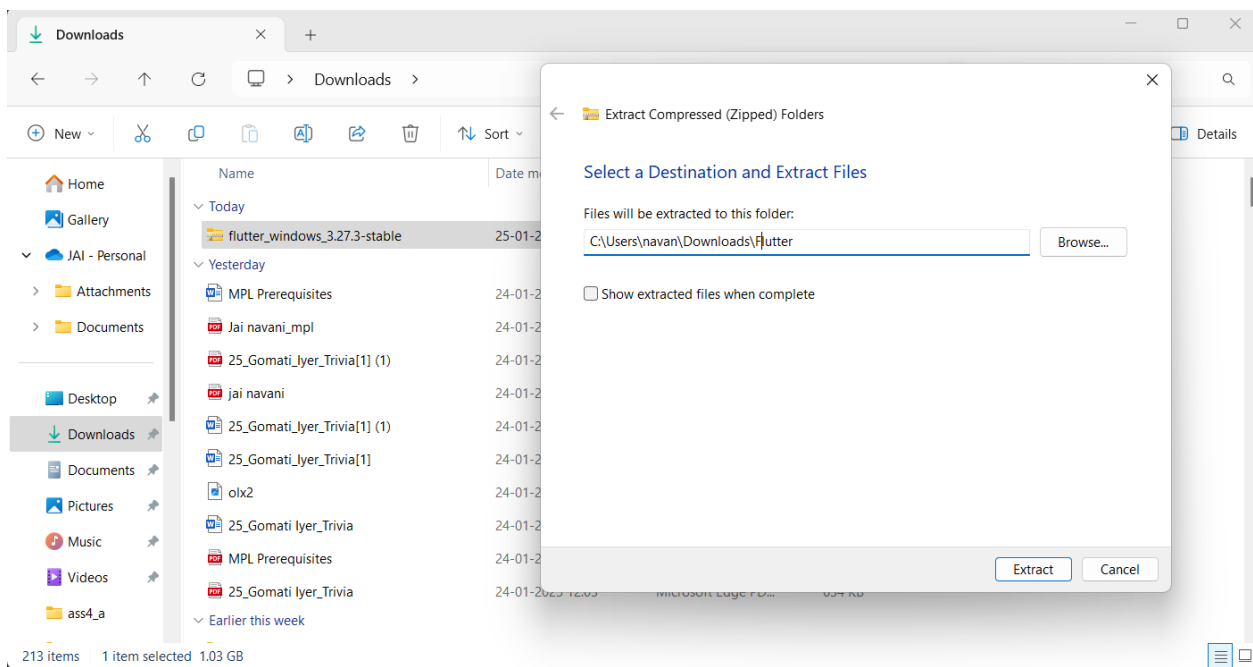
- Flutter for Android devs
- Flutter for iOS devs
- Flutter for React Native devs
- Flutter for web devs
- Flutter for Xamarin.Forms devs

Step 2: Next, to download the latest Flutter SDK, click on the Windows **icon**. Here, you will find the download link for [SDK](#).

Step 3: When your download is complete, extract the **zip** file and place it in the desired installation folder or location, for example, C: /Flutter.

Step 4: To run the Flutter command in regular windows console, you need to update the system path to include the flutter bin directory. The following steps are required to do this:

Step 4.1: Go to MyComputer properties -> advanced tab -> environment variables. You will get the following screen



Step 4.3: In the above window, click on New->write path of Flutter bin folder in variable value -> ok -> ok -> ok.

Step 5: Now, run the \$ **flutter** command in command prompt.

```
Command Prompt - flutter - f X + v
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\navan>flutter
Manage your Flutter app development.

Common commands:

  flutter create <output directory>
    Create a new Flutter project in the specified directory.

  flutter run [options]
    Run your Flutter application on an attached device or in an emulator.

Usage: flutter <command> [arguments]

Global options:
-h, --help                Print this usage information.
-v, --verbose              Noisy logging, including all shell commands executed.
                           If used with "--help", shows hidden options. If used with "flutter doctor", shows additional
                           diagnostic information. (Use "-vv" to force verbose logging in those cases.)
-d, --device-id           Target device id or name (prefixes allowed).
--version                 Reports the version of this tool.
--enable-analytics         Enable telemetry reporting each time a flutter or dart command runs.
--disable-analytics       Disable telemetry reporting each time a flutter or dart command runs, until it is
                           re-enabled.
--suppress-analytics       Suppress analytics reporting for the current CLI invocation.
```

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.

```
Select Command Prompt
See Google's privacy policy:
https://policies.google.com/privacy

C:\Users\jalpa>
C:\Users\jalpa>
C:\Users\jalpa>flutter doctor
Running "flutter pub get" in flutter_tools... 17.0s
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 2.8.1, on Microsoft Windows [Version 10.0.19042.1415], locale en-US)
[✗] Android toolchain - develop for Android devices
     ✗ Unable to locate Android SDK.
       Install Android Studio from: https://developer.android.com/studio/index.html
       On first launch it will assist you in installing the Android SDK components.
       (or visit https://flutter.dev/docs/get-started/install/windows#android-setup for detailed instructions).
       If the Android SDK has been installed to a custom location, please use
       'flutter config --android-sdk' to update to that location.
[✓] Chrome - develop for the web
[!] Android Studio (not installed)
[✓] VS Code (version 1.55.2)
[✓] Connected device (2 available)

! Doctor found issues in 2 categories.

C:\Users\jalpa>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 2.8.1, on Microsoft Windows [Version 10.0.19042.1415], locale en-US)
[!] Android toolchain - develop for Android devices (Android SDK version 32.0.0)
     ✗ cmdline-tools component is missing
       Run "path/to/sdkmanager --install "cmdline-tools;latest"
       See https://developer.android.com/studio/command-line for more details.
     ✗ Android license status unknown.
       Run "flutter doctor --android-licenses" to accept the SDK licenses.
       See https://flutter.dev/docs/get-started/install/windows#android-setup for more details.
[✓] Chrome - develop for the web
[✓] Android Studio (version 2020.3)
[✓] VS Code (version 1.55.2)
[✓] Connected device (2 available)

! Doctor found issues in 1 category.
```

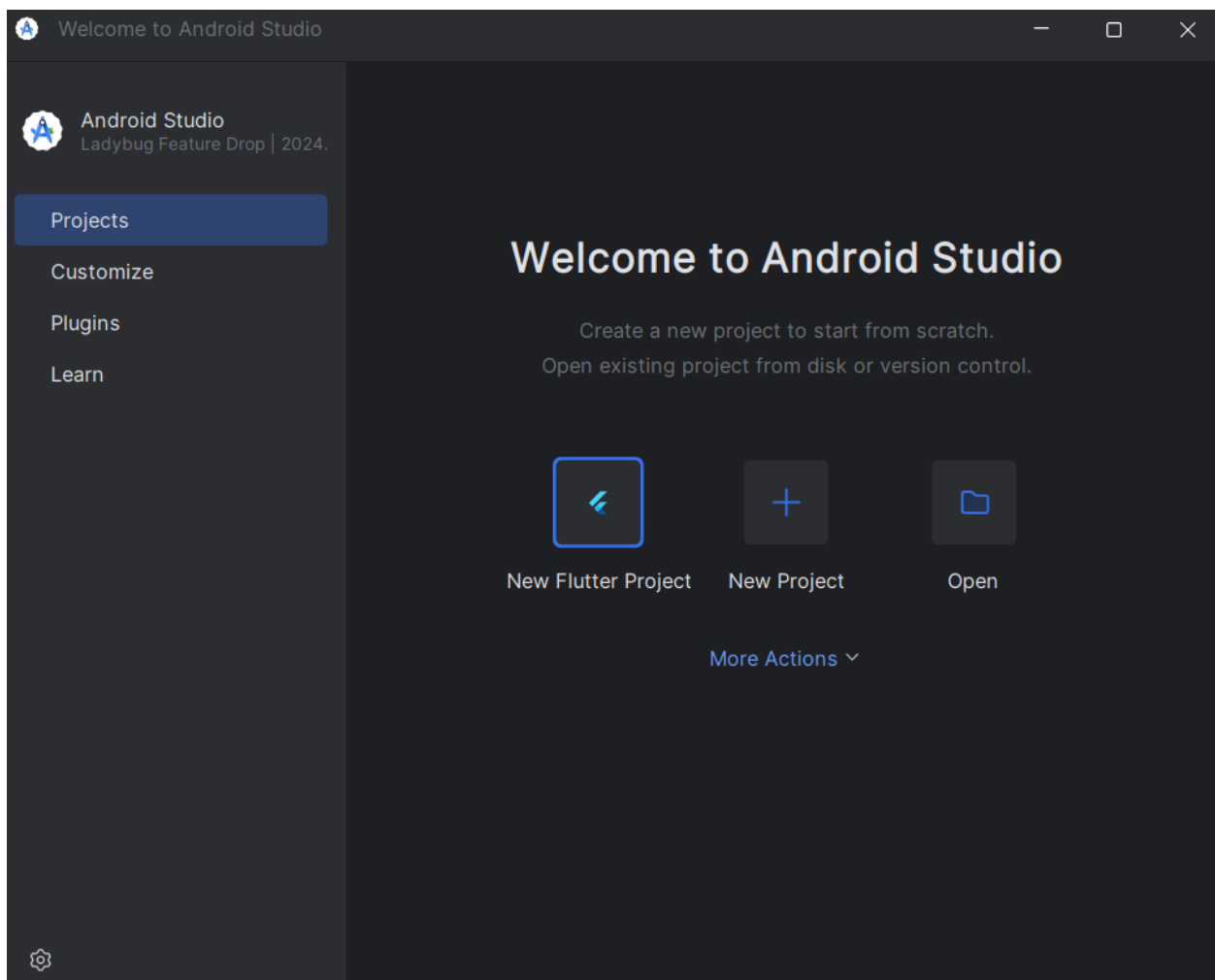
Step 6: When you run the above command, it will analyze the system and show its report, as shown in the below image. Here, you will find the details of all missing tools, which required to run Flutter as well as the development tools that are available but not connected with the device.

Step 7: 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.

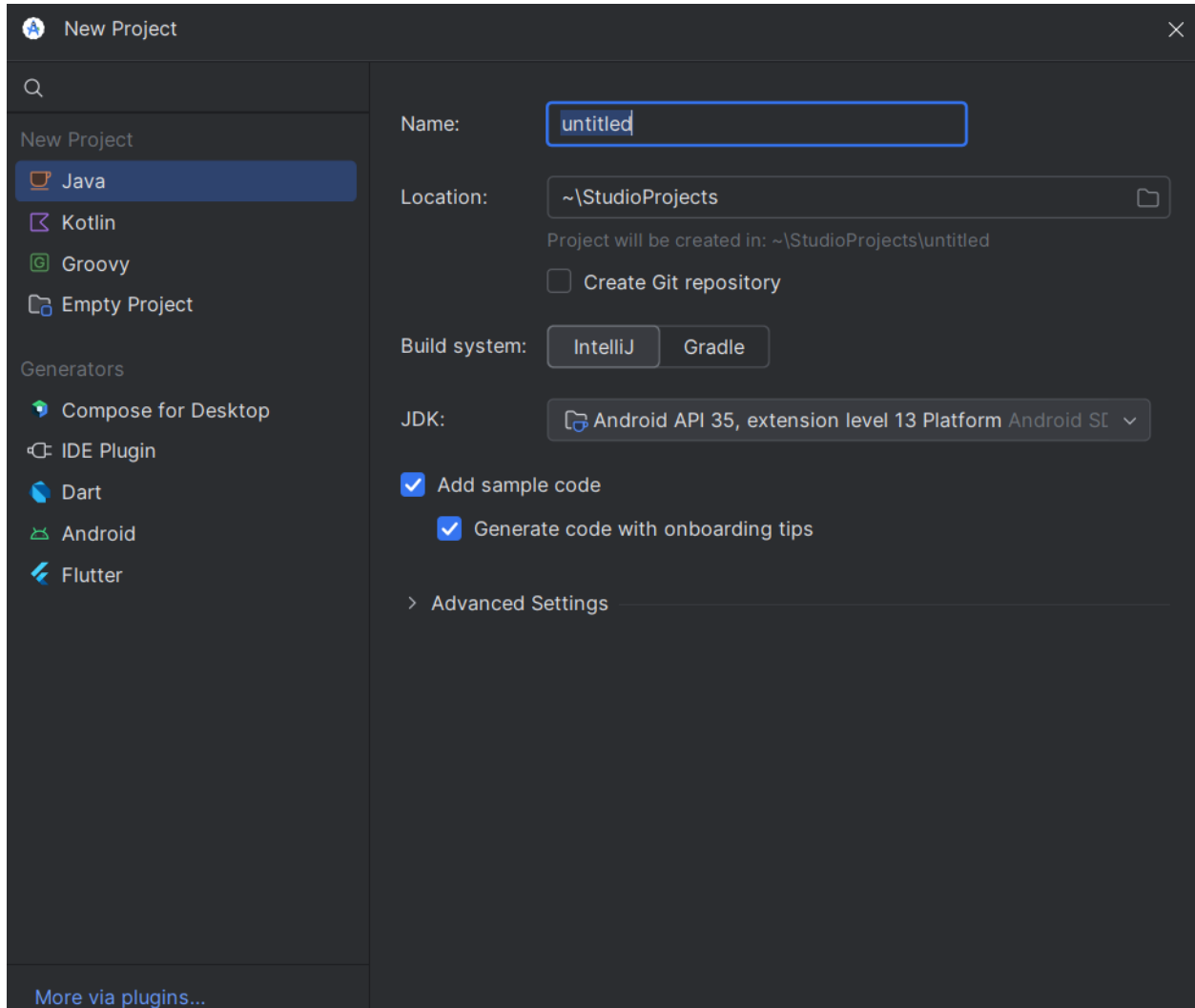
Step 7.1: Download the latest Android Studio executable or zip file from the [official site](#).

Step 7.2: When the download is complete, open the **.exe** file and run it. You will get the following dialog box.

After download:

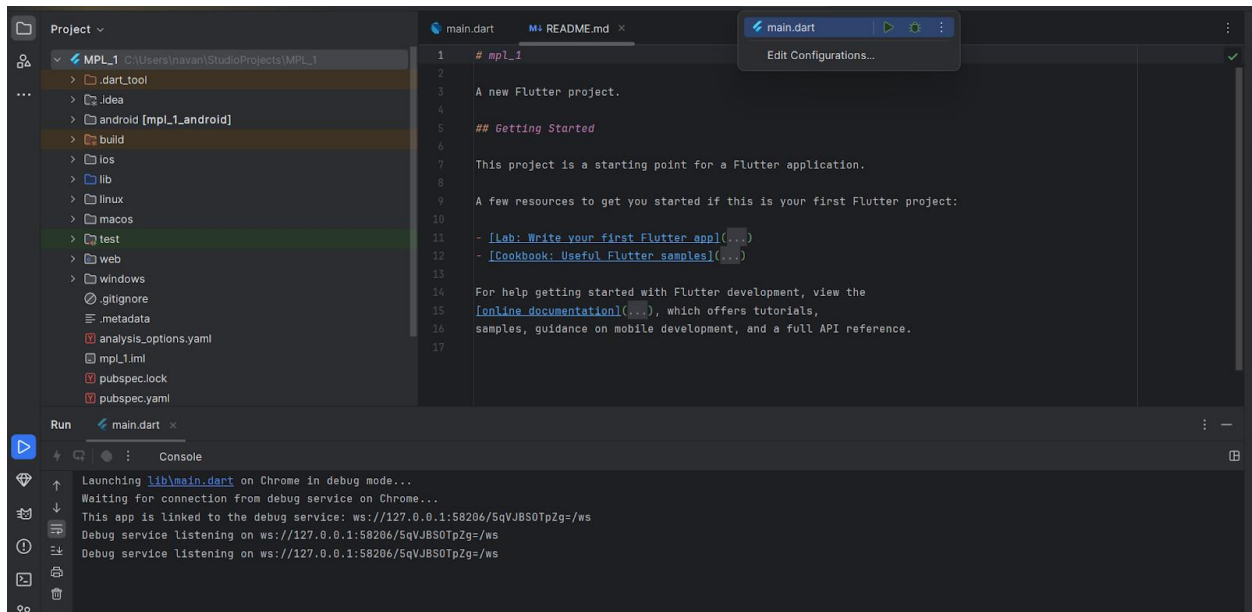


Step 7.4: In the above screen, click Next-> Finish. Once the Finish button is clicked, you need to choose the 'Don't import Settings option' and click OK. It will start the Android Studio.



Step 8: Next, you need to set up an Android emulator. It is responsible for running and testing the Flutter application.

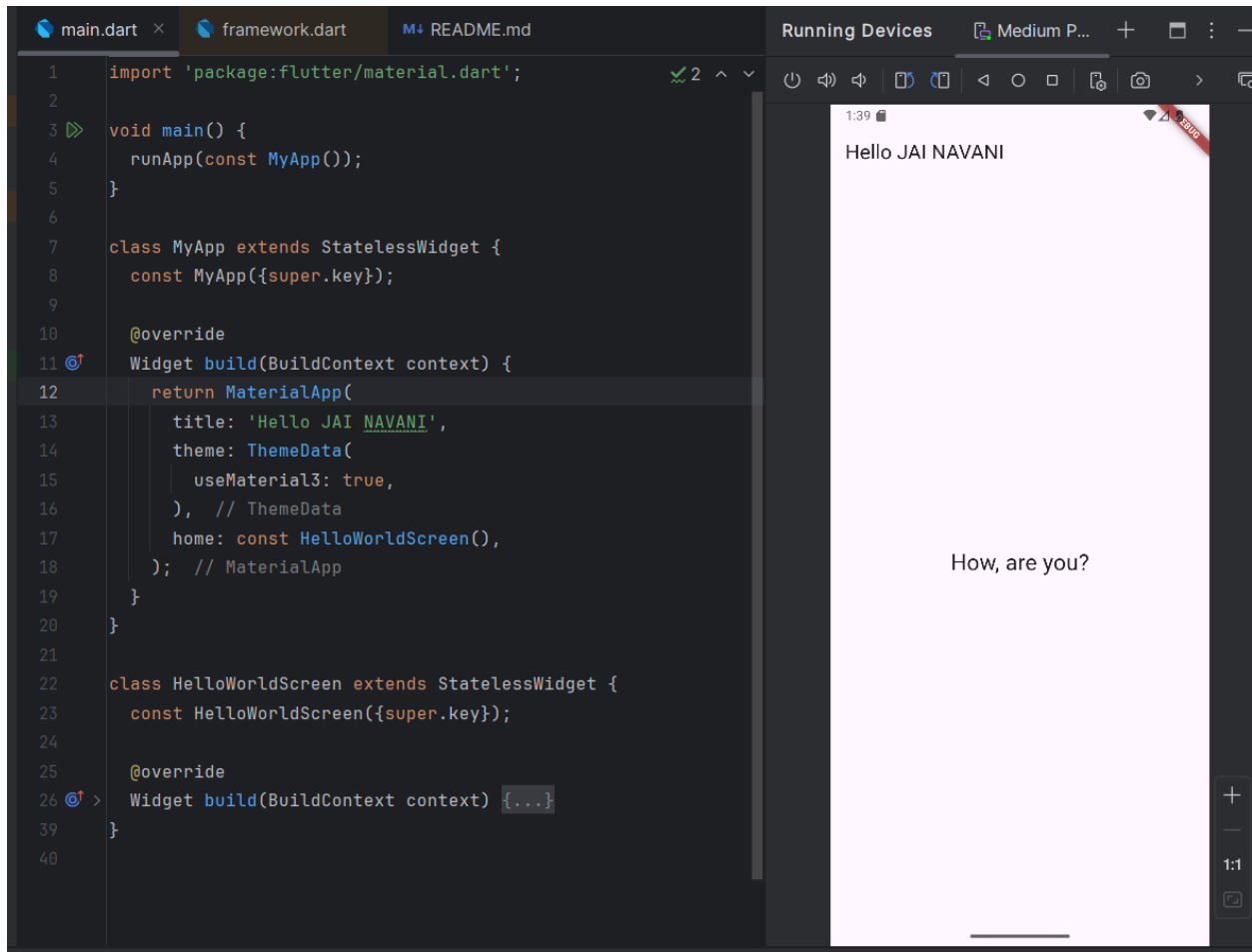
Step 8.1: To set an Android emulator, go to Android Studio > Tools > Android > AVD Manager and select Create Virtual Device. Or, go to Help->Find Action->Type Emulator in the search box. You will get the following screen.



Step 8.2: Choose your device definition and click on Next.

Step 8.3: Select the system image for the latest Android version and click on Next.

Step 8.4: Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen appears.



Step 8.5: Last, click on the icon pointed into the red color rectangle. The Android emulator displayed as below screen.

Step 9: Now, install Flutter and Dart plugin for building Flutter application in Android Studio. These plugins provide a template to create a Flutter application, give an option to run and debug Flutter application in the Android Studio itself. Do the following steps to install these plugins.

Step 9.1: Open the Android Studio and then go to File->Settings->Plugins

Step 9.2: Restart the Android Studio.