



ICT Department

ជំនាញ Flutter លើ Windows 10

Instructor: Oum Saokosal, *Master of Engineering in Information Systems, South Korea '2010*

Email: oumsaokosal@gmail.com

Phone: 012 252 752 (Telegram)

តម្រូវការ Hardware៖

- យ៉ាងតិច Core i5
- យ៉ាងតិច RAM 8GB
- ចាំបាច់ត្រូវប្រើ Hard Disk ប្រភេទ SSD

តម្រូវការ Software៖

- Java SDK
- Flutter SDK
- Android Studio + Flutter plugin
- ឬអាចប្រើ Visual Studio Code + Flutter plugin

ចំណាំ: ត្រូវមាន internet ជាចាំបាច់ក្នុងពេលដំឡើង!



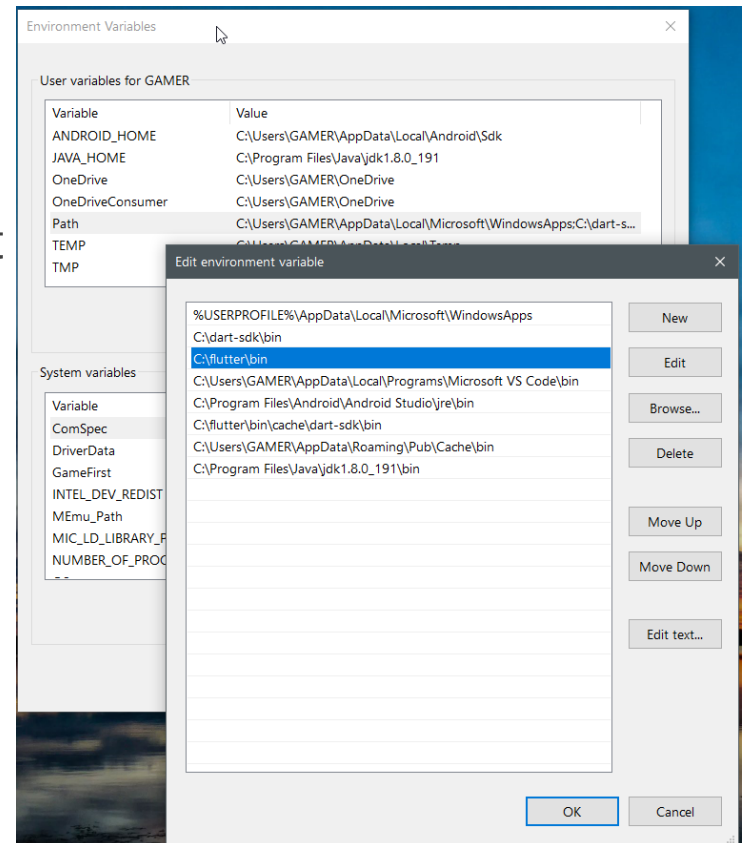
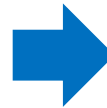
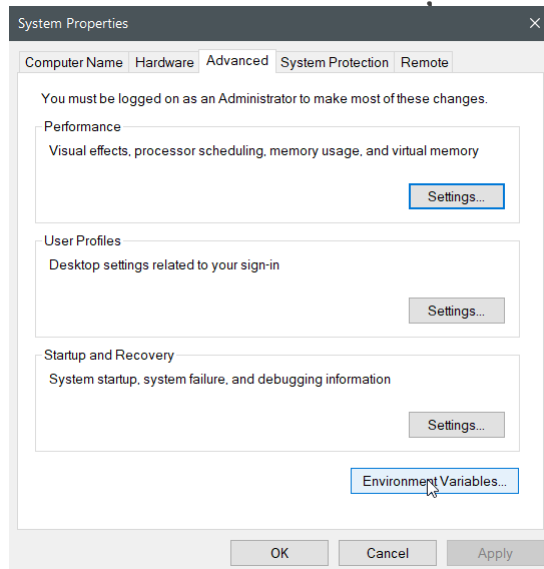
1. ដំឡើង Flutter SDK

1. Download Flutter ចេញពី <https://flutter.dev/docs/get-started/install>
2. Extract ដាក់ចូល Drive C (បញ្ជាក់ Drive C ត្រូវតែជា SSD)

This PC > System (C:)

Name	Date modified	Type
flutter	27/02/2019 00.30	File folder
Go	23/04/2018 13.49	File folder
Hotfix	19/08/2015 04.35	File folder
inetpub	05/08/2016 10.25	File folder
Intel	03/07/2018 19.41	File folder
MSOCache	18/08/2015 15.20	File folder
PerfLoas	10/07/2015 18.04	File folder

3. ដាក់ path c:\flutter\bin ចូលក្នុង environment



4. Run CMD ហើយវាយ៖

```
flutter doctor
```

```
flutter doctor -v
```

5. ជាទូទៅ Android ទាមទារអោយ accept license:

```
flutter doctor --android-licenses
```

▪ Command flutter ផ្សេងៗទៀត៖

- `flutter upgrade` # សំរាប់ upgrade flutter
- `flutter clean` # សំរាប់ clean build file
- `flutter packages get` # សំរាប់ download package

2. ដំឡើង Android Studio

1. Download Android Studio ចេញពី <https://developer.android.com/studio/>

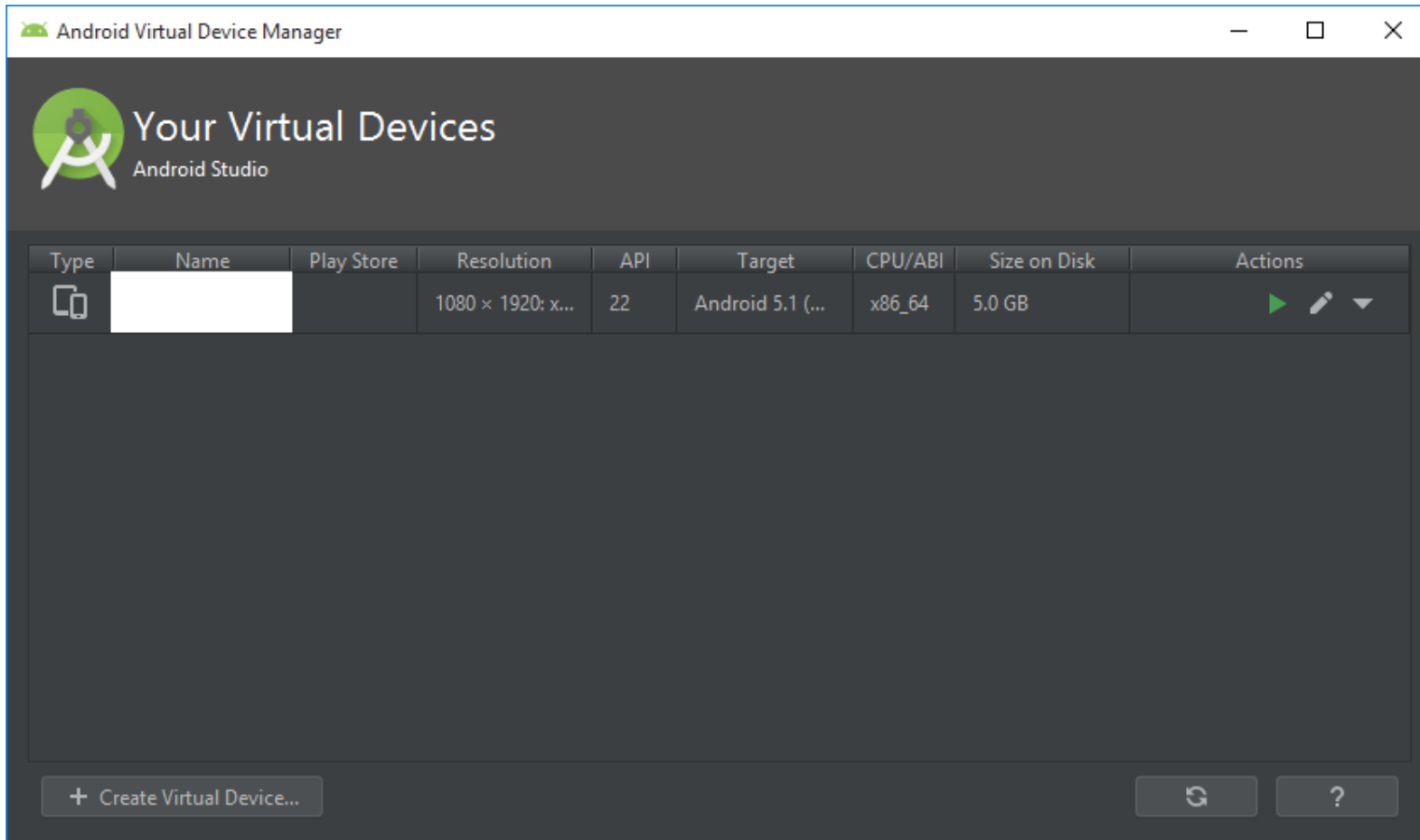


2. ចុច next, next ... ទាល់តែចប់

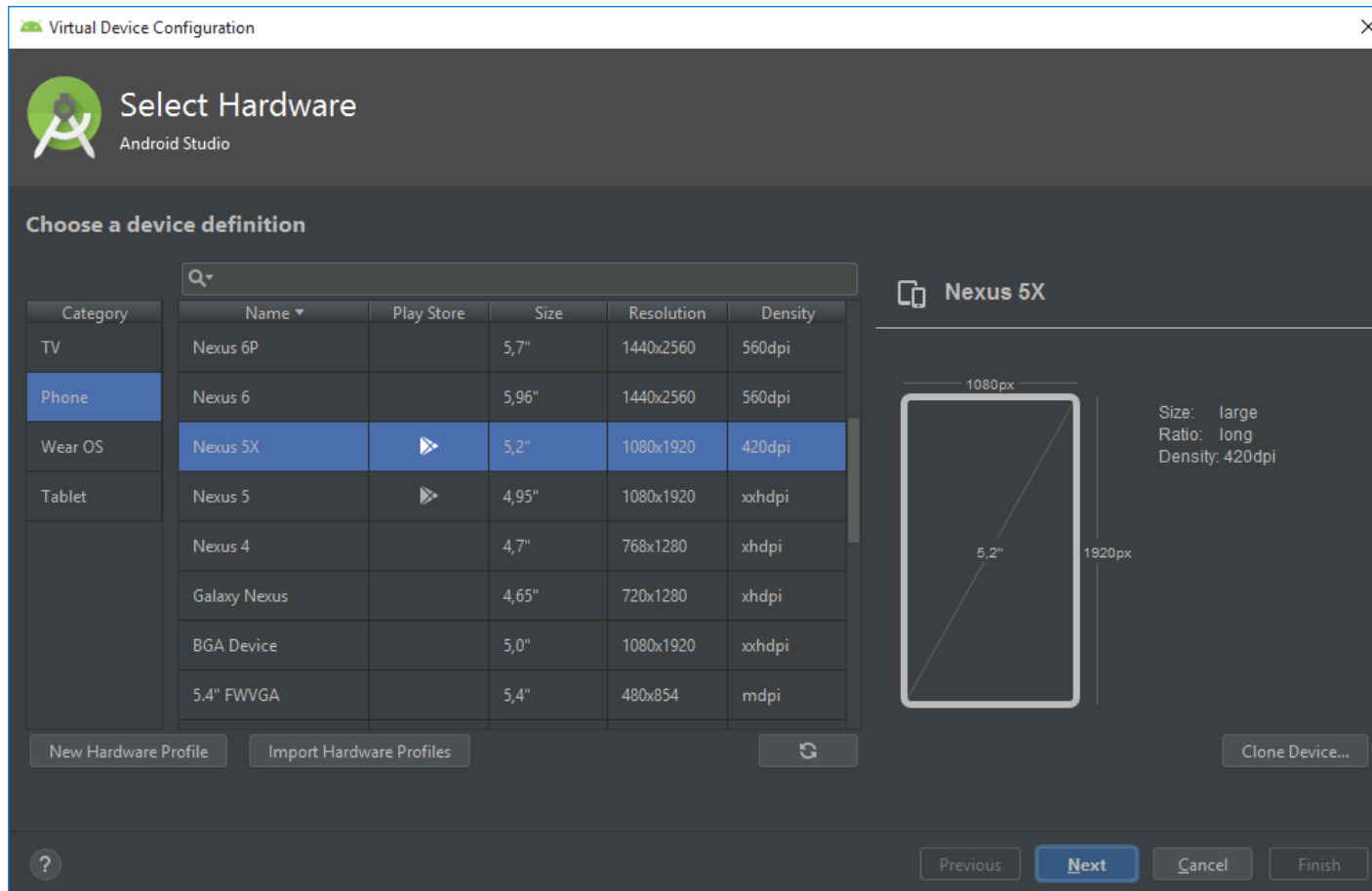
បញ្ជាក់៖ ពេល install គឺទាមទារ Internet ដែលលឿន ព្រោះត្រូវ download ច្រើន GB

3. ដំឡើង Emulator

1. បើក Android Studio -> Tools -> Android -> AVD Manager -> Create Virtual Device.




2. វិធីសាស្ត្រ Emulator ណាមួយ



3. សូមរើសយក version Android ណាមួយដែលចង់តេស្ត (មកដល់ចំណុចនេះ ត្រូវ download ម្តងទៀត)

Virtual Device Configuration




System Image
Android Studio

Select a system image

Recommended
x86 Images
Other Images

Release Name	API Level	ABI	Target
Oreo Download	27	x86	Android 8.1
Oreo Download	26	x86	Android 8.0 (Google APIs)
Oreo Download	26	x86_64	Android 8.0 (Google APIs)
Oreo Download	26	x86	Android 8.0
Oreo Download	26	x86_64	Android 8.0
Nougat Download	25	x86	Android 7.1.1 (Google APIs)
Nougat Download	25	x86_64	Android 7.1.1 (Google APIs)
Nougat Download	25	x86	Android 7.1.1
Nougat Download	25	x86_64	Android 7.1.1
Nougat Download	24	x86_64	Android 7.0 (Google APIs)
Nougat Download	24	x86	Android 7.0 (Google APIs)

Nougat



API Level
25
Android
7.1.1
Google Inc.
System Image
x86_64

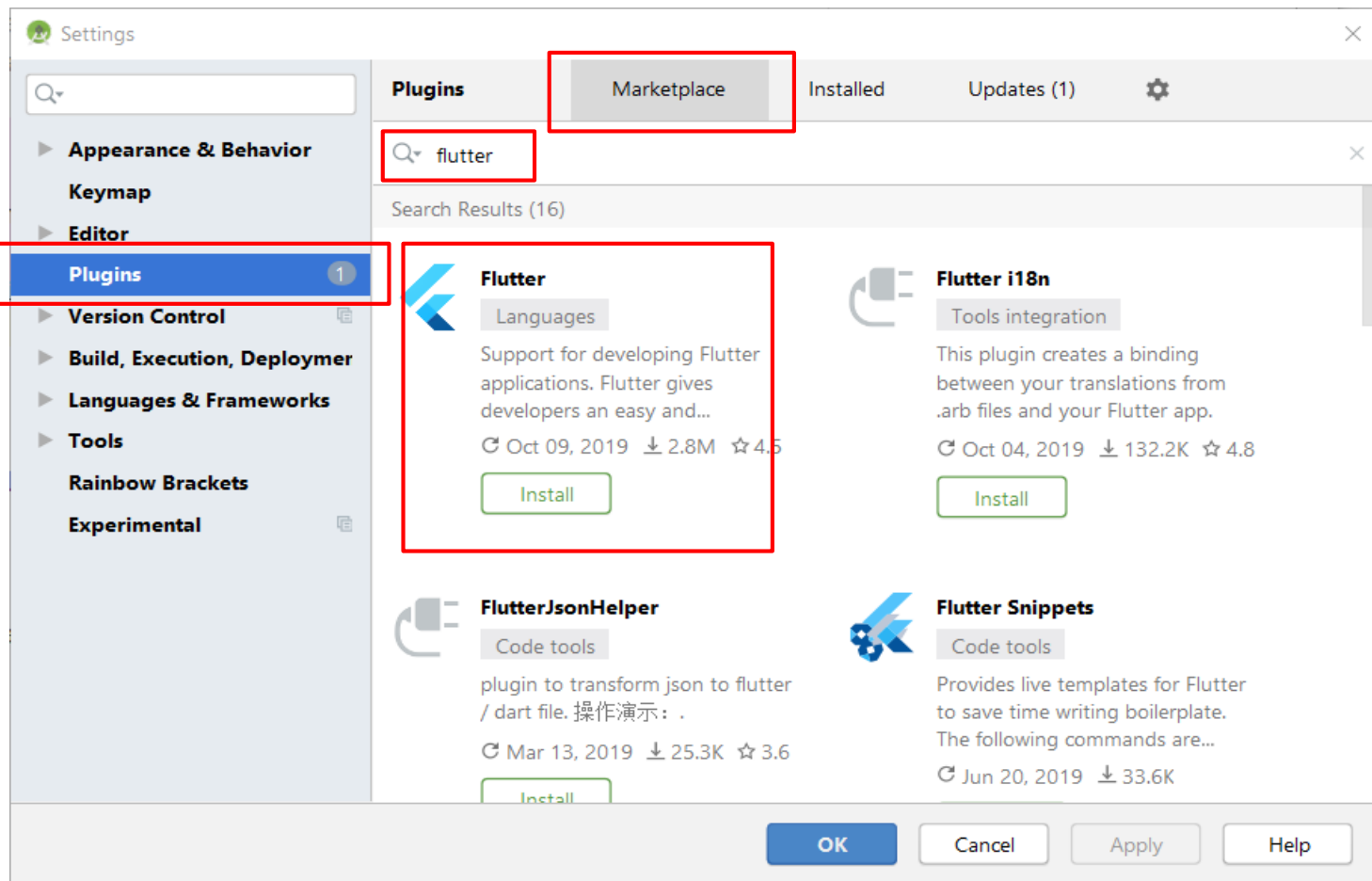
Questions on API level?
See the [API level distribution chart](#)

A system image must be selected to continue.

? Previous Next Cancel Finish

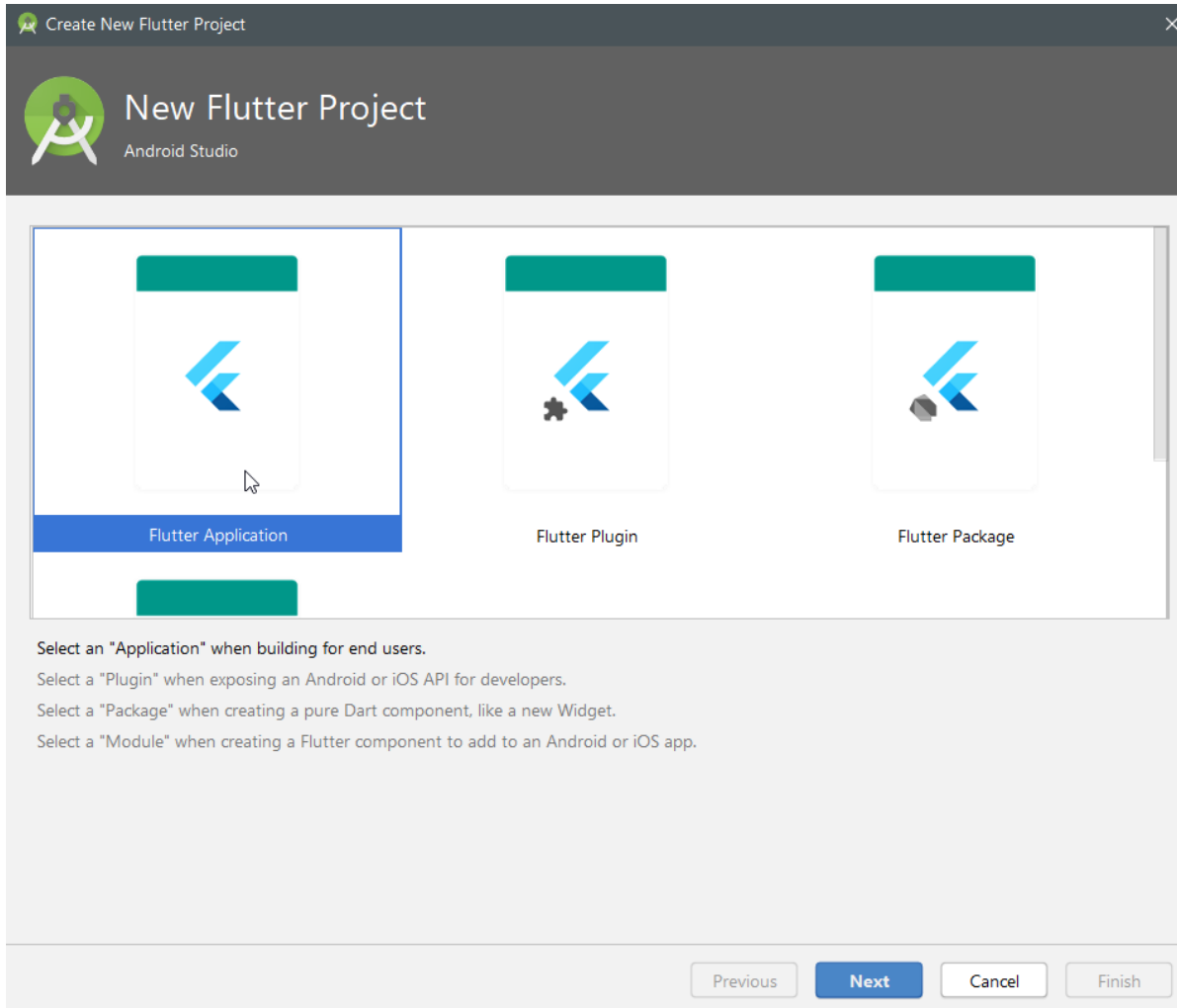
4. ដំឡើង Flutter plugin

1. ចុច File menu -> Settings -> Plugin -> Marketplace -> វាយ flutter -> ចុច enter
2. រើស Flutter -> install -> Restart IDE

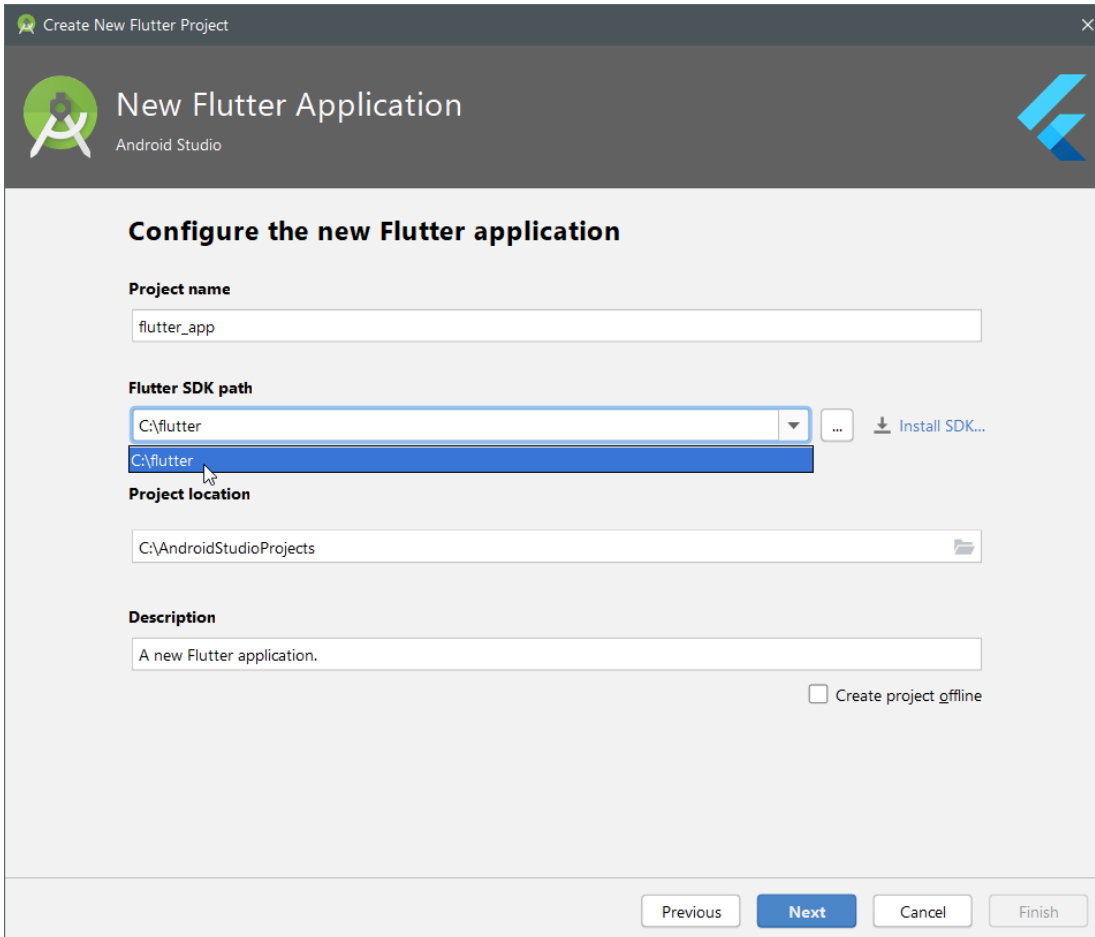


5. បង្កើត Flutter project

1. File -> New -> New Flutter Project -> Flutter Application -> Next



2. project name -> ជ្រើស flutter SDK path -> project location -> Next



Create New Flutter Project

New Flutter Application
Android Studio

Configure the new Flutter application

Project name
flutter_app

Flutter SDK path
C:\flutter
C:\flutter

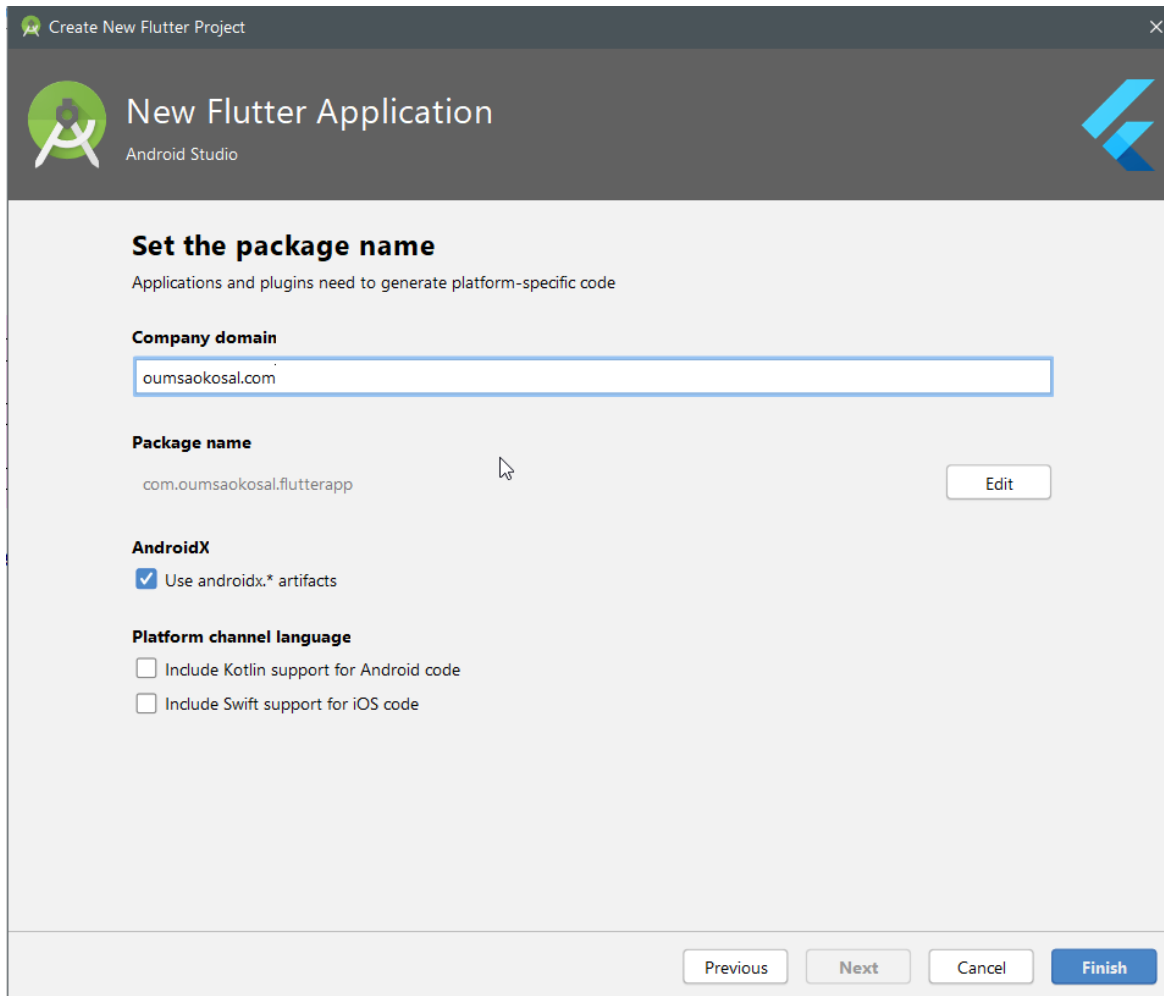
Project location
C:\AndroidStudioProjects

Description
A new Flutter application.

☐ Create project offline

Previous Next Cancel Finish

3. ដាក់ company domain -> ចុច Use Androidx.* artifacts -> Finish



Create New Flutter Project

New Flutter Application

Android Studio

Set the package name

Applications and plugins need to generate platform-specific code

Company domain

oumsaokosal.com

Package name

com.oumsaokosal.flutterapp Edit

AndroidX

☒ Use androidx.* artifacts

Platform channel language

☐ Include Kotlin support for Android code

☐ Include Swift support for iOS code

Previous Next Cancel Finish

6. Run ជាមួយនឹង Emulator

- វិធីសាស្ត្រ រត់ emulator -> ចុច button play

