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ICT Department

# ជំនួយនៃ Flutter លើ Mac OS

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## តម្លៃការ Hardware:

- យោងតិច Core i5
- យោងតិច RAM 8GB
- ចាំបាច់ត្រូវបី Hard Disk ប្រភេទ SSD

## តម្លៃការ Software:

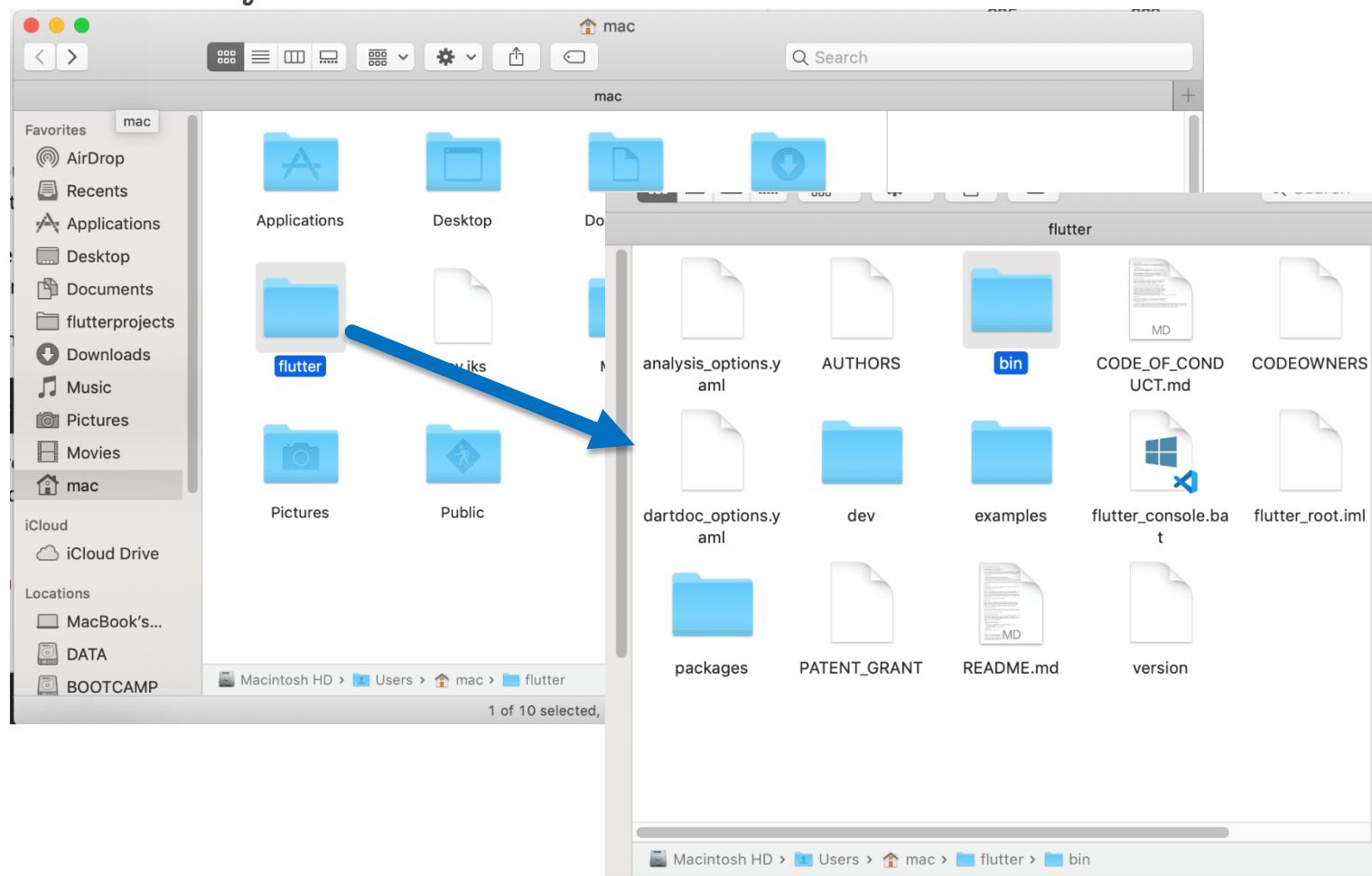
- Java SDK
- Flutter SDK
- Android Studio + Flutter plugin
- ត្រូវបញ្ចូល XCode + CocoaPod

ចំណាំ: ត្រូវមាន internet ជាថាំបាច់ក្នុងពេលដំឡើង!



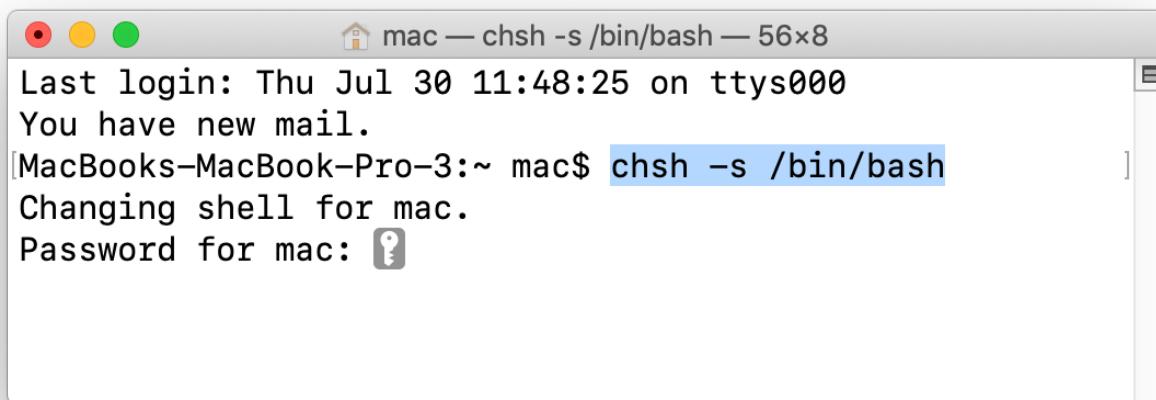
# 1. ដំឡើង Flutter SDK

1. Download Flutter ចេញពី <https://flutter.dev/docs/get-started/install/macos>
2. Extract ដាក់ចូល folder User



- ករណីដែលយើងកំពុងប្រើ macOS Catalina, នៅ Terminal របស់យើង អាចប្រើ Zsh shell ។ ដូច្នេះយើងត្រូវប្រមក Bash Shell វិញ ទឹកបងាយស្ថូលប្រើជាង។
- ដើម្បីប្រព័ន្ធឌីសុមភាយ cmd ខាងក្រោម៖

```
chsh -s /bin/bash
```



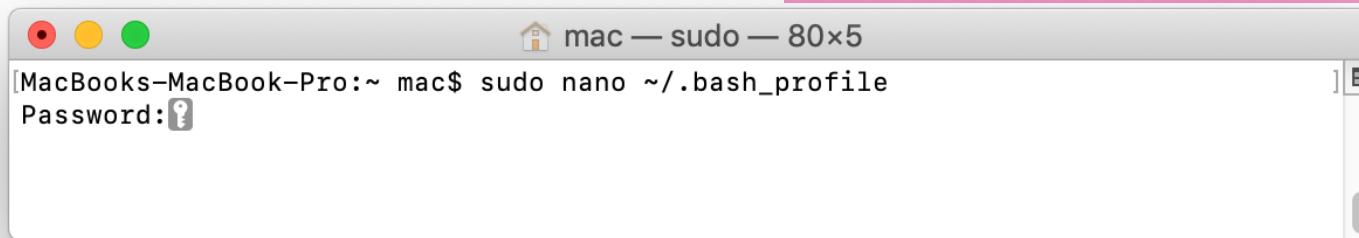
mac — chsh -s /bin/bash — 56x8

```
Last login: Thu Jul 30 11:48:25 on ttys000
You have new mail.
[MacBooks-MacBook-Pro-3:~ mac$ chsh -s /bin/bash
Changing shell for mac.
Password for mac: [key icon]
```

ស្ម័គ្រាក់ password របស់ម៏ស្ថិនដឹង។ ពេលកែកហើយ ស្ម័គ្រាបិទ Terminal ហើយ  
បើកវាទេរើងវិញ។

### 3. ដាក់ flutter/bin/ ចូលទៅ path

#### 3.1. គ្រឿងដាក់ path អាយុយជាប់រហូត ដោយប្រើ sudo nano ~/.bash\_profile

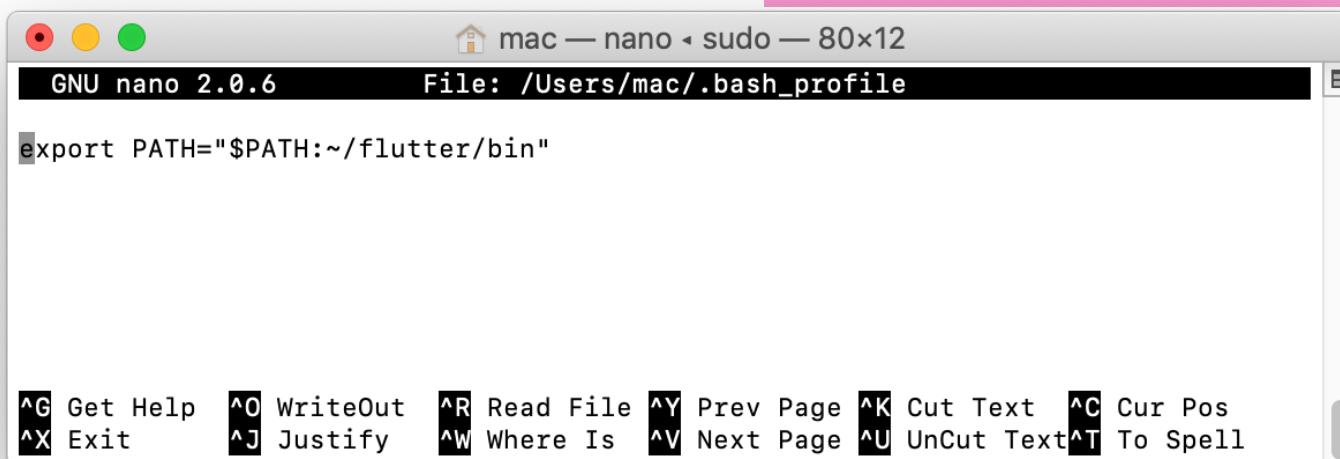


```
[MacBooks-MacBook-Pro:~ mac$ sudo nano ~/.bash_profile
Password:
```

#### 3.2. ផ្ទាំងវាយបញ្ជី password ម៉ាសុនយើងបើមាន

(បញ្ជាក់ ពេលវាយ password គឺវាមិនលោកដ្ឋាយបានឡើងទេ)

#### 3.3. ពេលចូល nano ក្រើយ យើងវាយពាក្យ export PATH="\$PATH:~/flutter/bin"



```
GNU nano 2.0.6          File: /Users/mac/.bash_profile

export PATH="$PATH:~/flutter/bin"

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^V Next Page  ^U UnCut Text ^T To Spell
```

4. Run CMD ហើយវាយ៖

```
flutter doctor
```

```
flutter doctor -v
```

5. ធ្វើនៅក្នុង Android ទាមទារអាយុ accept license:

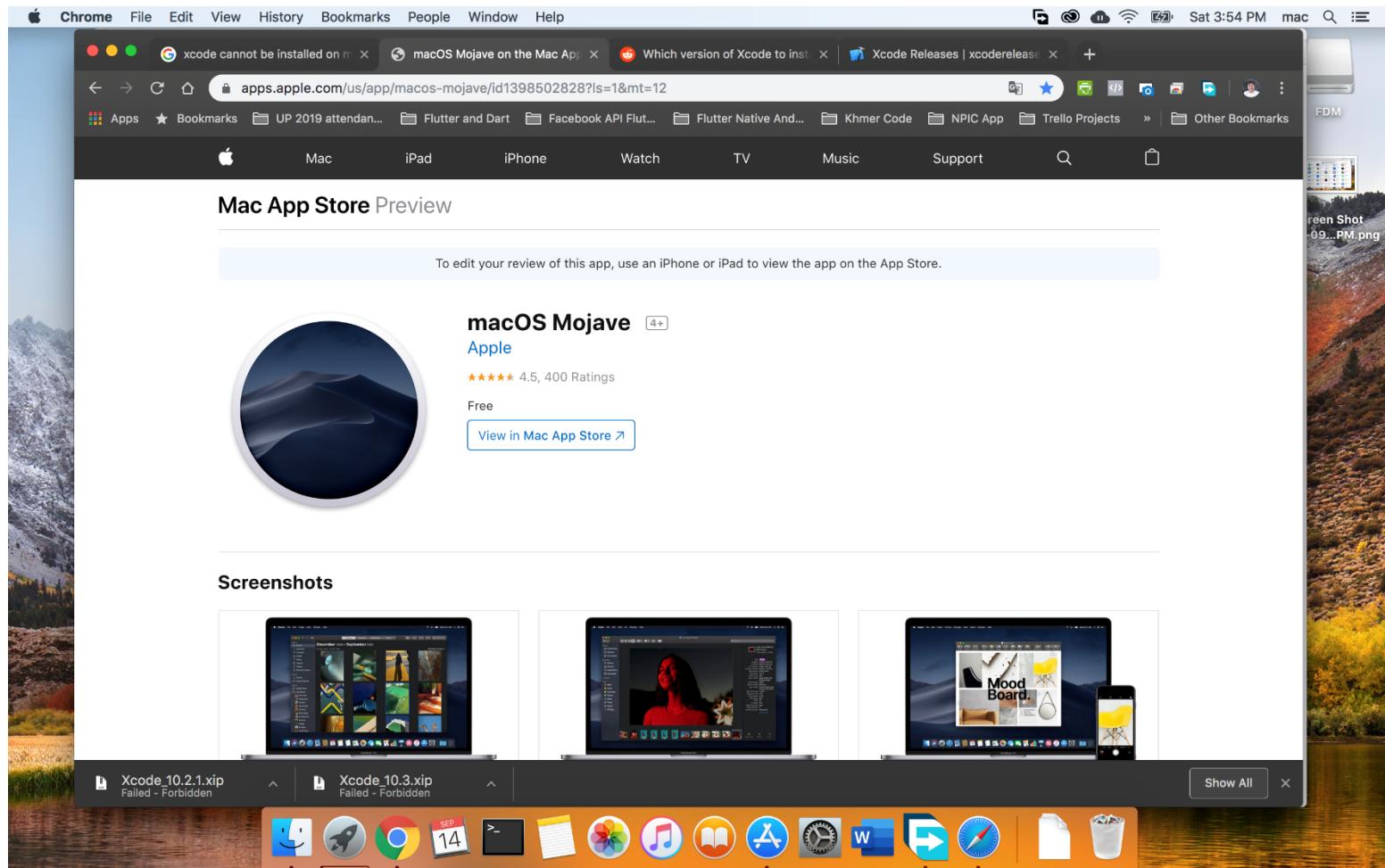
```
flutter doctor --android-licenses
```

## 2. ដំឡើង XCode

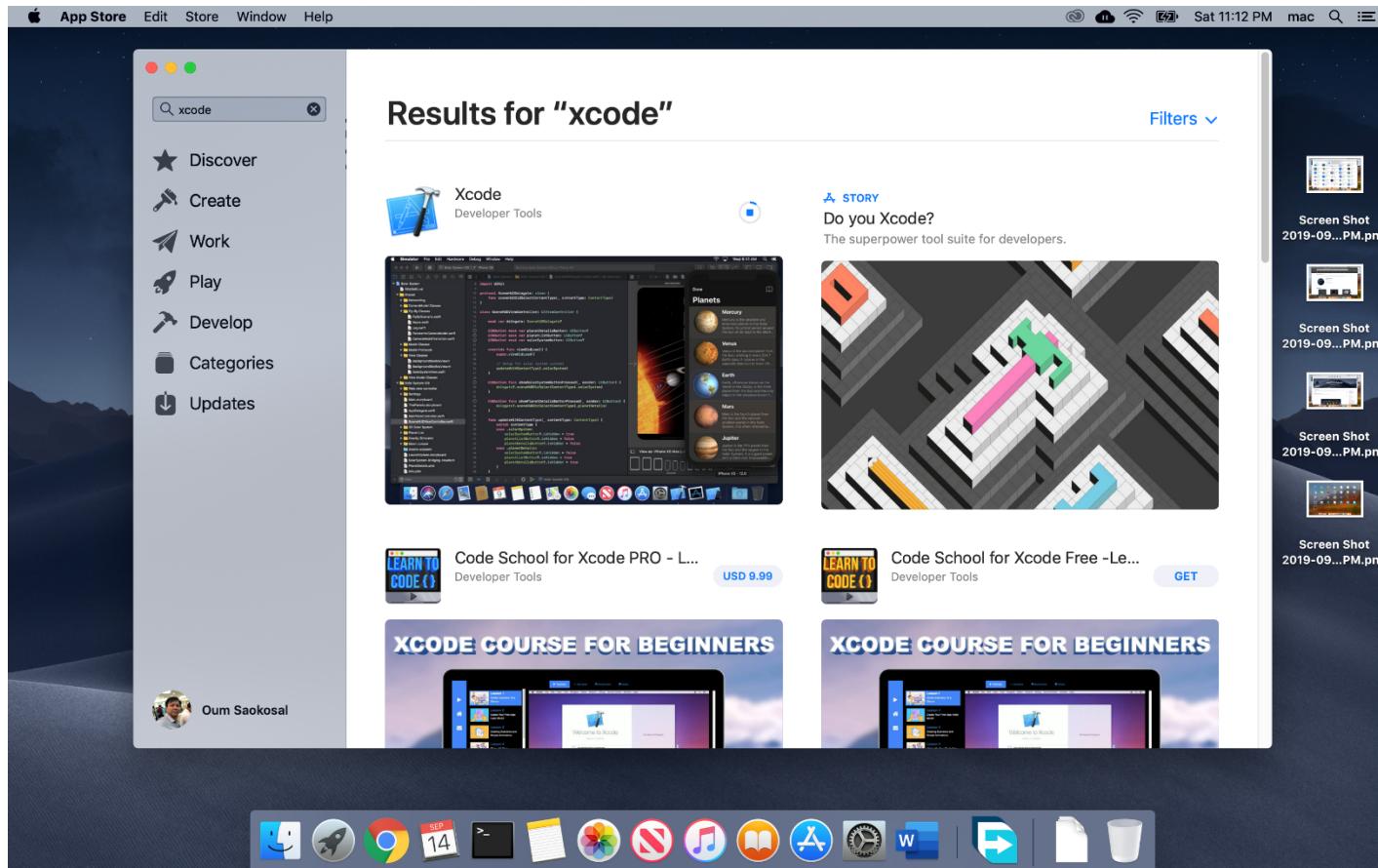
1. យើងត្រូវមាន Apple Account សិន មុននឹងអាច download XCode បាន
2. មុនដំឡើង XCode ត្រូវតែ update MacOS សិន។ បើមិន update ទេ យើងនឹង យើង error ដូចខាងក្រោម៖



### 3. Update MacOS



## 4. បន្ទាប់ពី update MacOS រួចហើយ អាចចូលទៅ download XCode ពី AppStore

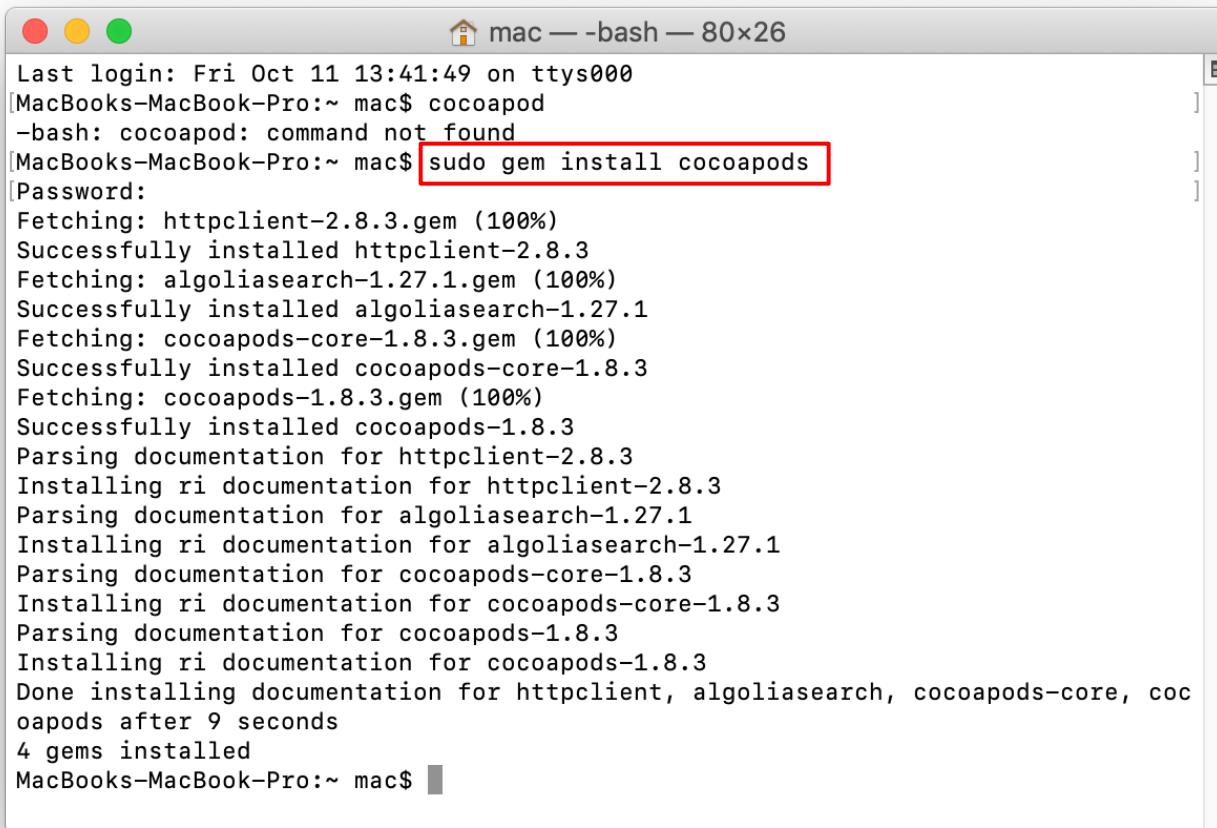


ត្រូវរៀងចាំមិនកិចជាងខេះដែលទៅ អាចហើកទុក download តាមមួយប៉ា!!!

### 3. តាំង Cocoapods

- ចូល download យើក Cocoapods ពី <https://cocoapods.org/>
- បើក terminal រាយ command ខាងក្រោម និងដាក់ password ម៉ាសុន

```
sudo gem install cocoapods
```



```
mac — -bash — 80x26
Last login: Fri Oct 11 13:41:49 on ttys000
[MacBooks-MacBook-Pro:~ mac$ cocoapod
-bash: cocoapod: command not found
[MacBooks-MacBook-Pro:~ mac$ sudo gem install cocoapods
>Password:
Fetching: httpclient-2.8.3.gem (100%)
Successfully installed httpclient-2.8.3
Fetching: algoliasearch-1.27.1.gem (100%)
Successfully installed algoliasearch-1.27.1
Fetching: cocoapods-core-1.8.3.gem (100%)
Successfully installed cocoapods-core-1.8.3
Fetching: cocoapods-1.8.3.gem (100%)
Successfully installed cocoapods-1.8.3
Parsing documentation for httpclient-2.8.3
Installing ri documentation for httpclient-2.8.3
Parsing documentation for algoliasearch-1.27.1
Installing ri documentation for algoliasearch-1.27.1
Parsing documentation for cocoapods-core-1.8.3
Installing ri documentation for cocoapods-core-1.8.3
Parsing documentation for cocoapods-1.8.3
Installing ri documentation for cocoapods-1.8.3
Done installing documentation for httpclient, algoliasearch, cocoapods-core, cocoapods after 9 seconds
4 gems installed
MacBooks-MacBook-Pro:~ mac$
```

## 4. ដំឡើង Android Studio

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



2. ទាញដាក់ចូល Application

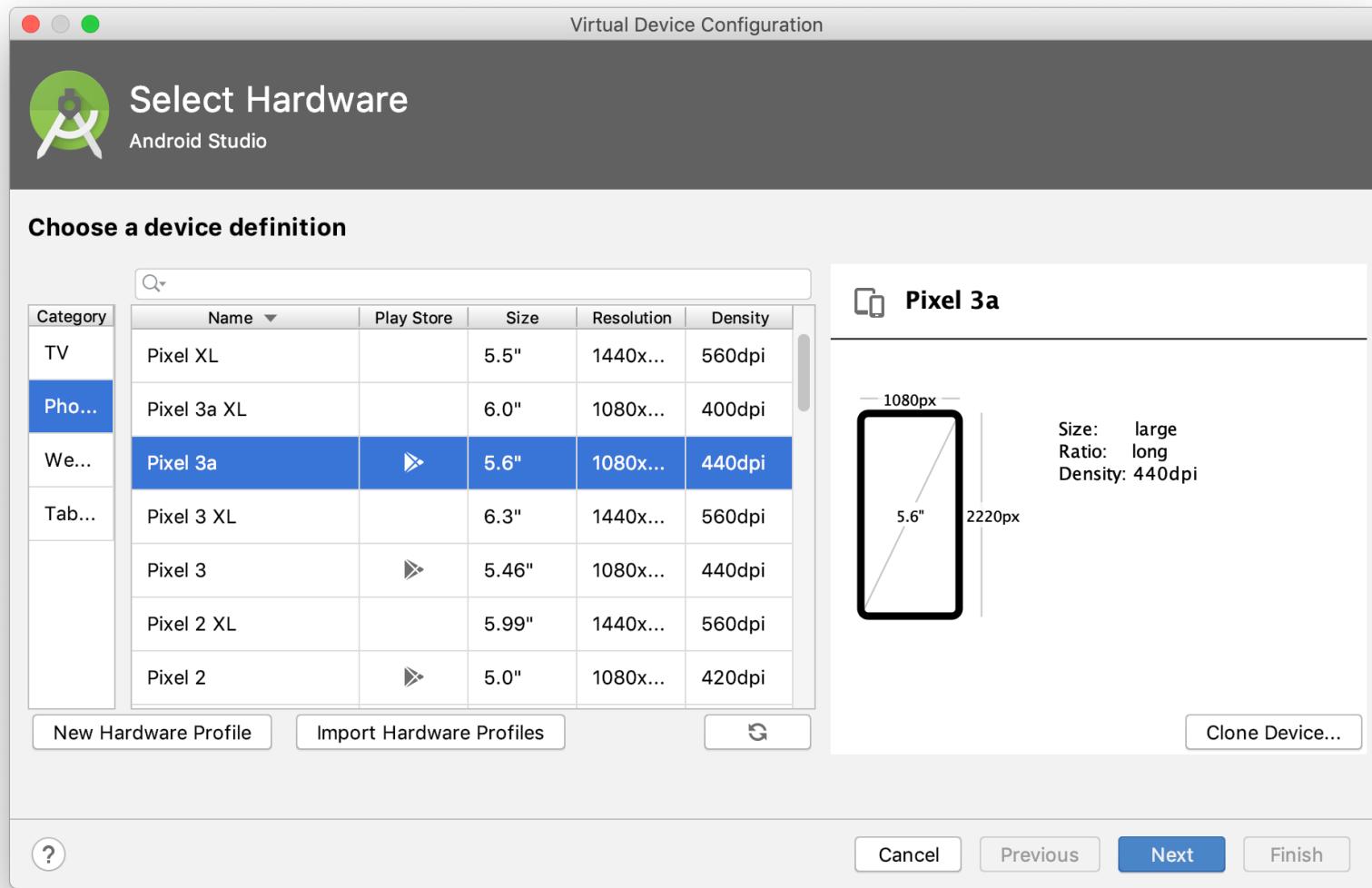
បញ្ជាក់ថា Internet ដែលលើន ត្រូវ download ត្រឹម GB

## 5. ដំឡើង Emulator

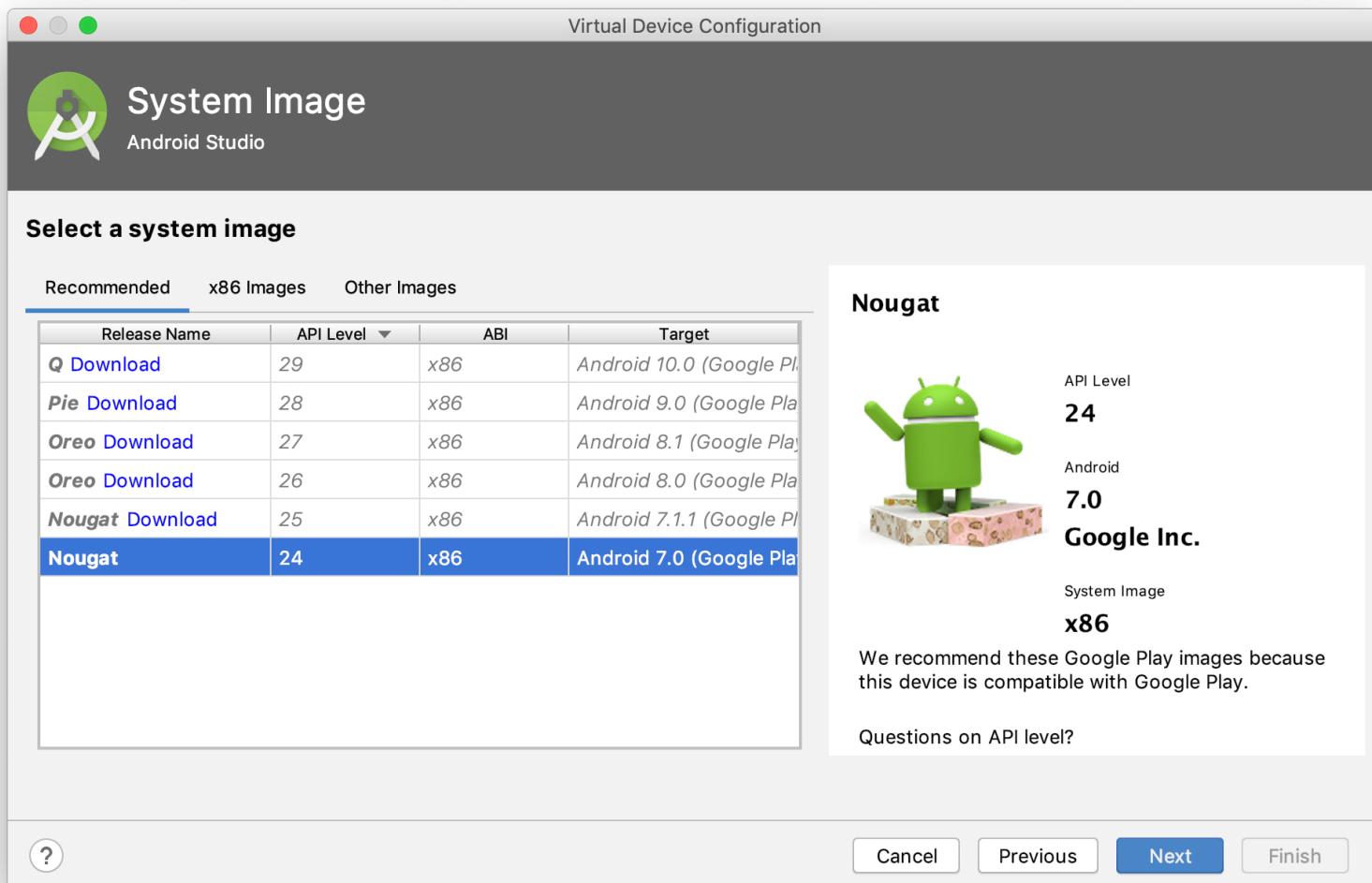
- បើក Android Studio -> Tools -> Android -> AVD Manager -> Create Virtual Device.



## 2. ផ្លូវយក Emulator ណាមួយ

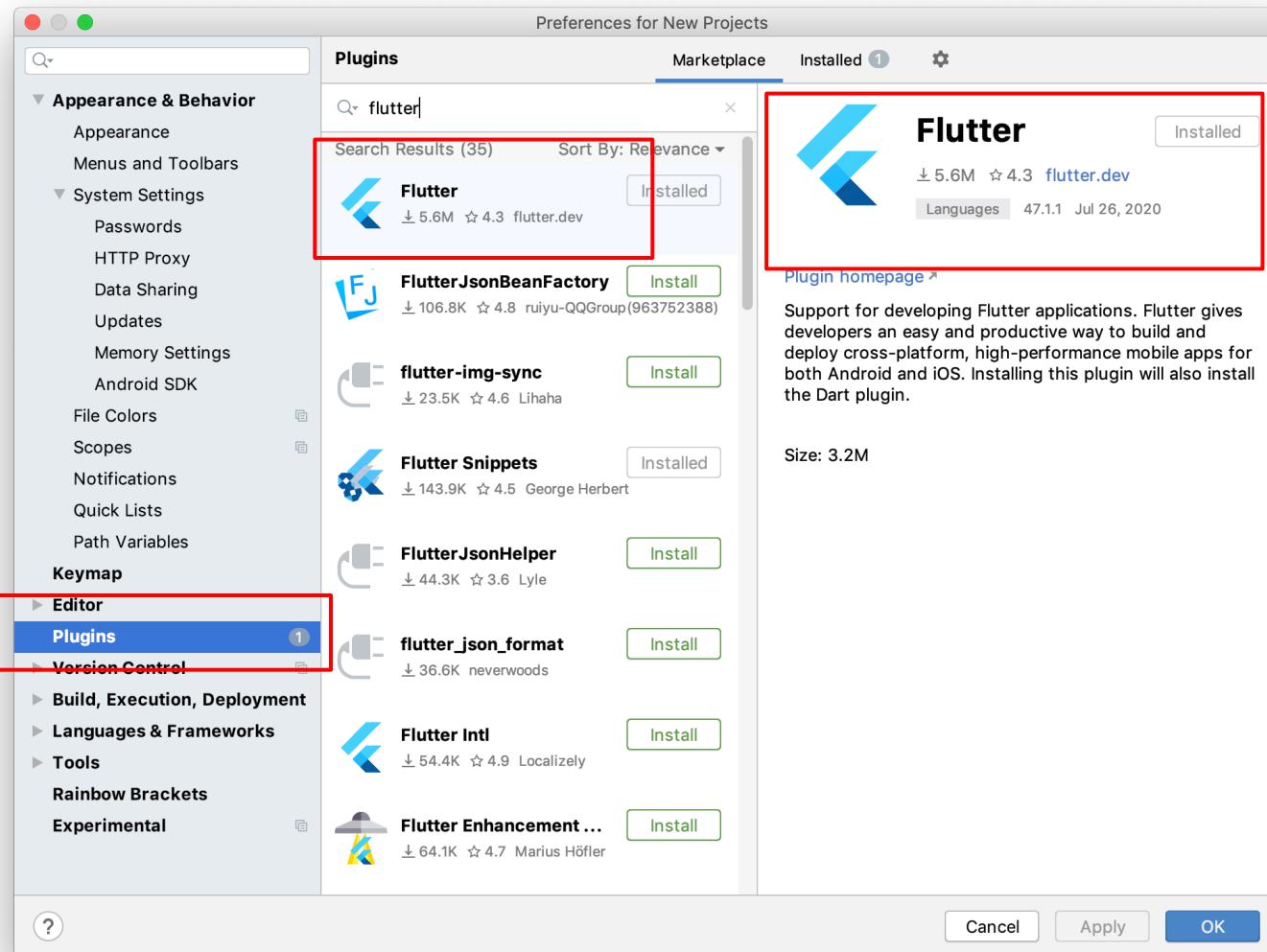


### 3. សូមធ្វើសម្រេច version Android ណាមួយដែលចង់តែស្ថិត (មកដំឡើងនូចនេះ ត្រូវ download មុនឡើត)



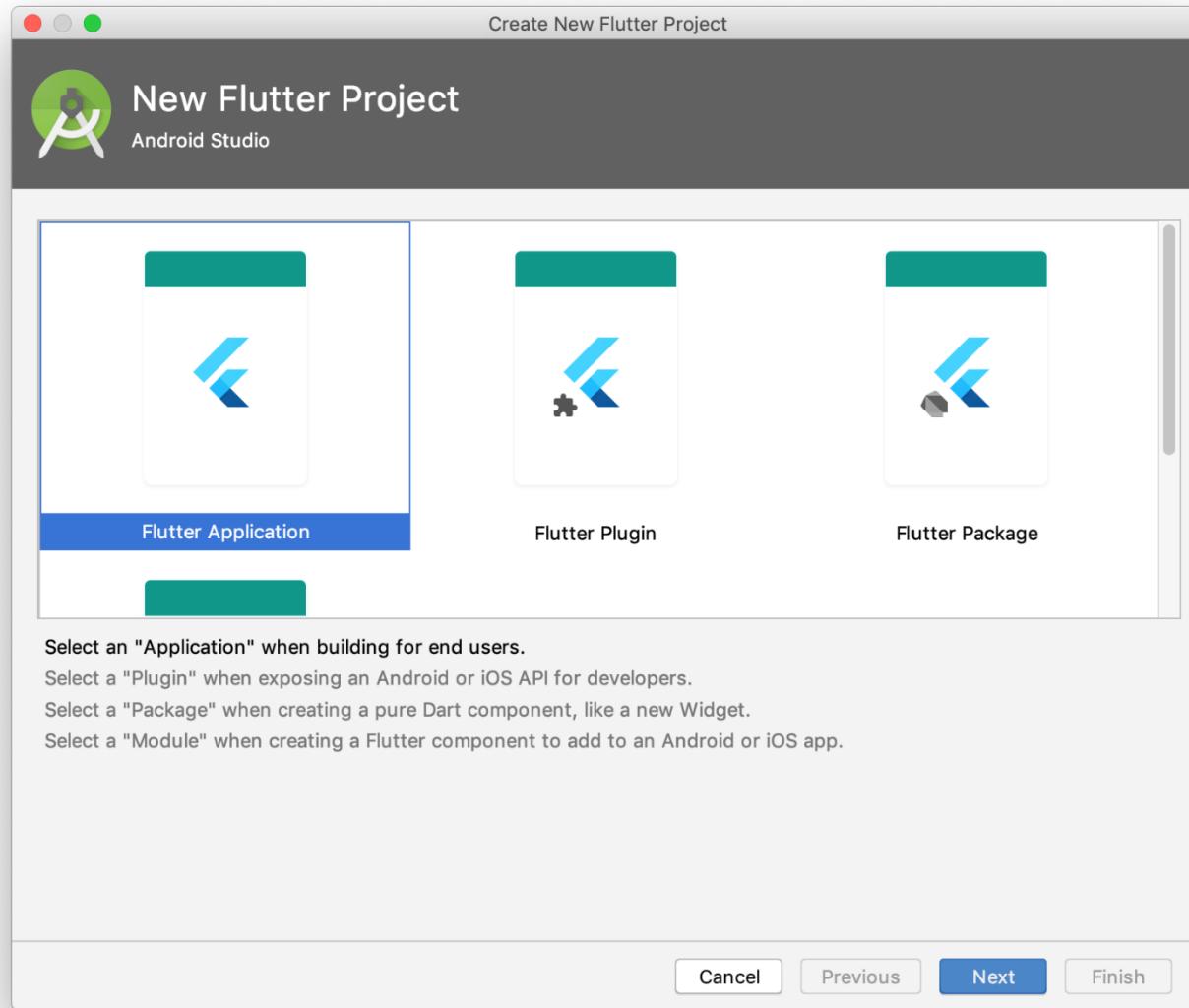
# 6. ដំឡើង Flutter plugin

- ចូច Android Studio -> Preferences -> Plugin -> Marketplace -> ភាយ flutter -> ចូច enter
- ផិស Flutter -> install -> Restart IDE

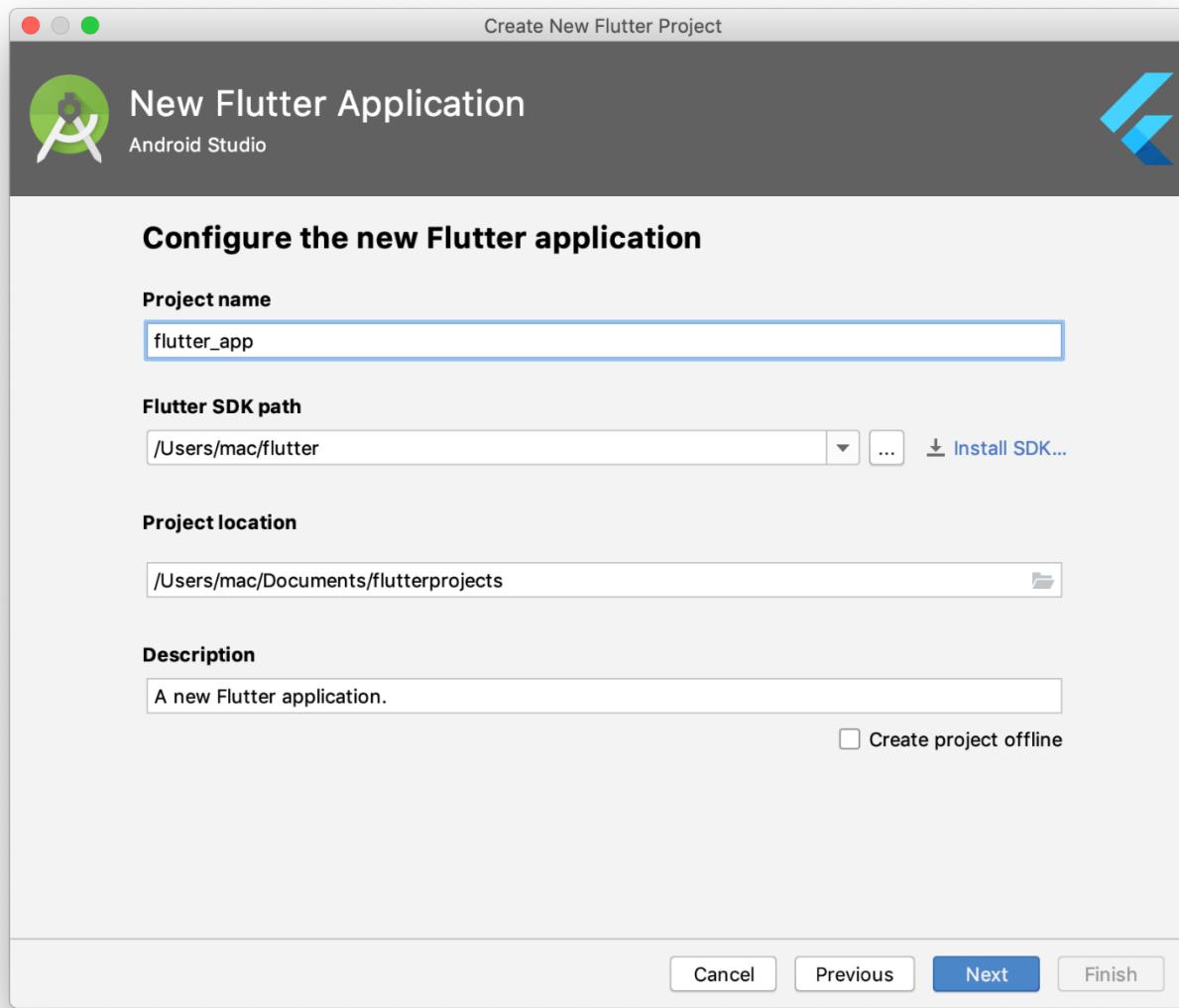


# 7. បង្កើត Flutter project

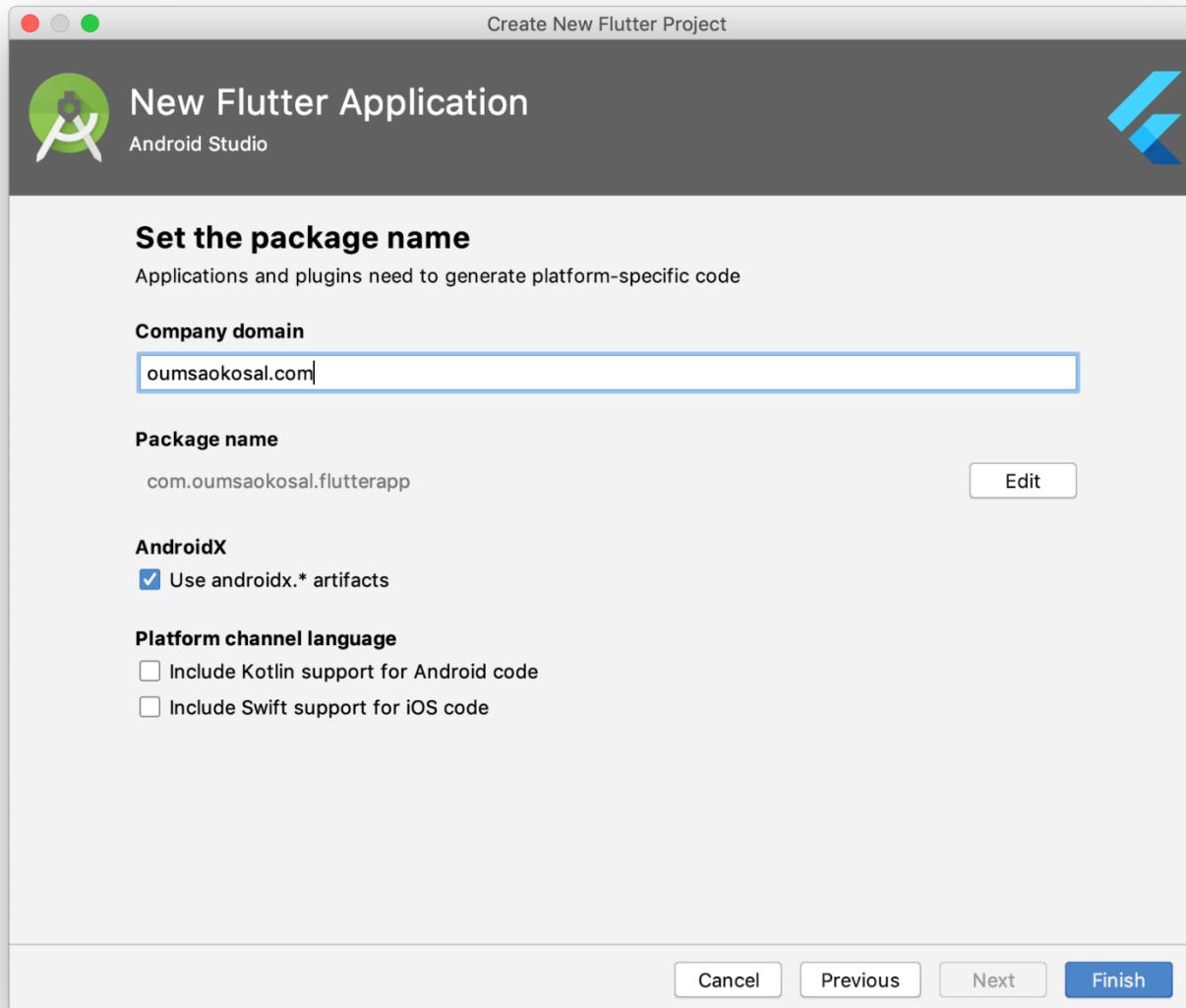
1. File -> New -> New Flutter Project -> Flutter Application -> Next



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

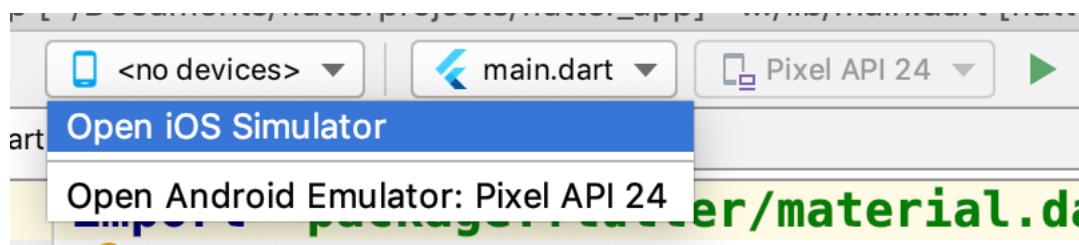


3. ជាក់ company domain -> ចូចិយក Use Androidx.\* artifacts -> Finish



## 8. Run ជាមួយ iPhone Simulator

- ពីរក្រោះយើងបានតាំងឡើង Xcode ហើយ ដូច្នោះយើងអាចប្រើ iPhone Simulation បាន



- ចូចលើ button play ជាការស្តី។

