SET UP APPIUM ENVIRONMENT

Set up Appium environment

- ## Mac

1. Install Package management Tool

   Install Homebrew by link below
   (https://brew.sh/index_zh-tw)

   brew --version
   brew --help
   brew cask

2. Install Node.js by brew
   brew install node
   node --version

- ## Window

1. Install Package management Tool

   Install Chocolatey by link below
   (https://chocolatey.org/install#installing-chocolatey)

   Run command prompt as Admin
   choco --version
   choco --help

2. Install Node.js by choco
   choco install nodejs
   refreshenv
   node --version

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3. Install Appium CLI by npm
   (http://appium.io/)

   npm install -g appium
   appium --version
   appium --help
   appium

- ## Window

3. Install Appium CLI by npm
   (http://appium.io/)

   npm install -g appium
   appium --version
   appium --help
   appium

```
Carousells-MacBook-Pro:~ carousell$ appium --version
1.10.0
Carousells-MacBook-Pro:~ carousell$ appium
[Appium] Welcome to Appium v1.10.0
[Appium] Appium REST http interface listener started on 0.0.0.0:4723
```

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4. Install Appium-doctor by npm
   (https://github.com/appium/appium-doctor)
   npm install -g appium-doctor
   appium-doctor

- ## Window

4. Install Appium-doctor by npm
   (https://github.com/appium/appium-doctor)
   npm install -g appium-doctor
   appium-doctor

```
Carousells-MacBook-Pro:~ carousell$ appium-doctor
info AppiumDoctor Appium Doctor v.1.6.0
info AppiumDoctor ### Diagnostic starting ###
info AppiumDoctor  ✔ The Node.js binary was found at: /usr/local/bin/node
info AppiumDoctor  ✔ Node version is 11.4.0
info AppiumDoctor  ✔ Xcode is installed at: /Library/Developer/CommandLineTools
info AppiumDoctor  ✔ Xcode Command Line Tools are installed.
info AppiumDoctor  ✔ DevToolsSecurity is enabled.
info AppiumDoctor  ✔ The Authorization DB is set up properly.
WARN AppiumDoctor  ✖ Carthage was NOT found!
info AppiumDoctor  ✔ HOME is set to: /Users/carousell
WARN AppiumDoctor  ✖ ANDROID_HOME is NOT set!
WARN AppiumDoctor  ✖ JAVA_HOME is NOT set!
WARN AppiumDoctor  ✖ adb could not be found because ANDROID_HOME is NOT set!
WARN AppiumDoctor  ✖ android could not be found because ANDROID_HOME is NOT set!
WARN AppiumDoctor  ✖ emulator could not be found because ANDROID_HOME is NOT set!
WARN AppiumDoctor  ✖ Bin directory for $JAVA_HOME is not set
info AppiumDoctor ### Diagnostic completed, 7 fixes needed. ###
info AppiumDoctor
info AppiumDoctor ### Manual Fixes Needed ###
info AppiumDoctor The configuration cannot be automatically fixed, please do the following first:
WARN AppiumDoctor  - Please install Carthage. Visit https://github.com/Carthage/Carthage#installing-carthage for more i
nformation.
WARN AppiumDoctor  - Manually configure ANDROID_HOME.
WARN AppiumDoctor  - Manually configure JAVA_HOME.
WARN AppiumDoctor  - Manually configure ANDROID_HOME and run appium-doctor again.
WARN AppiumDoctor  - Add '$JAVA_HOME/bin' to your PATH environment
info AppiumDoctor ###
info AppiumDoctor
info AppiumDoctor Bye! Run appium-doctor again when all manual fixes have been applied!
info AppiumDoctor
Carousells-MacBook-Pro:~ carousell$
```

Set up Appium environment

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5. Install Appium Desktop
   (https://github.com/appium/appium-desktop)
   brew cask install appium

6. Install Java JDK
   brew cask install java
   java --version

7. Install Android Studio
   brew cask install android-studio

8. Install IDE
   brew cask install intellj-idea-ce

- ## Window

5. Install Appium Desktop
   (https://github.com/appium/appium-desktop)
   choco install appium-desktop

6. Install Java JDK
   choco install jdk11
   refreshenv
   java --version

7. Install Android Studio
   choco install androidstudio

8. Install IDE
   choco install intellijidea-community

Set up Appium environment

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9. Set up environment variable

   vim ~/.bash_profile

   export JAVA_HOME=
   $(/usr/libexec/java_home)

   export ANDROID_HOME =
   /User/user_name/Library/Android/sdk

   export PATH=
   $PATH:$JAVA_HOME/bin:$ANDROID_HOME

   Save and restart Terminal !

- ## Window

9. Set up environment variable

   Open **advanced system settings**
    -> **Environment Variables**
    -> **System variable**

   Add **ANDROID_HOME** =
   "C:\Users\WorkShop\AppData\Local\Android\sdk"

   Add %ANDROID_HOME% into PATH

   Save and refreshenv !

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10. Install Carthage
    brew install carthage

11. Install Xcode
    Join Apple Developer Program
    (https://developer.apple.com/xcode/)

    **Download Xcode from App Store (might need
    to update Mac OS first)**

Set up Appium Environment

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12. Check appium settings

   appium-doctor
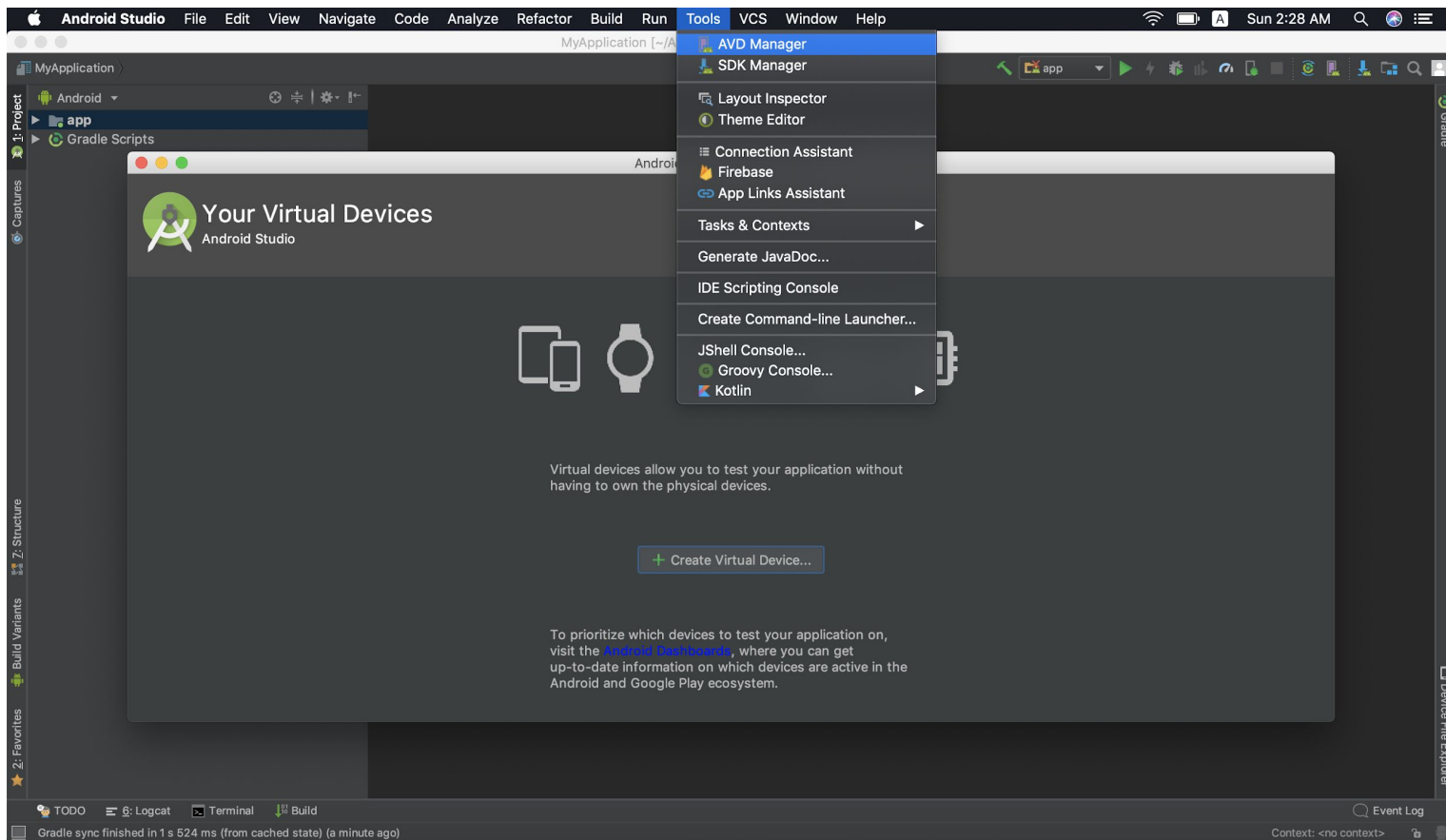
- ## Window

10. Check appium settings

   appium-doctor
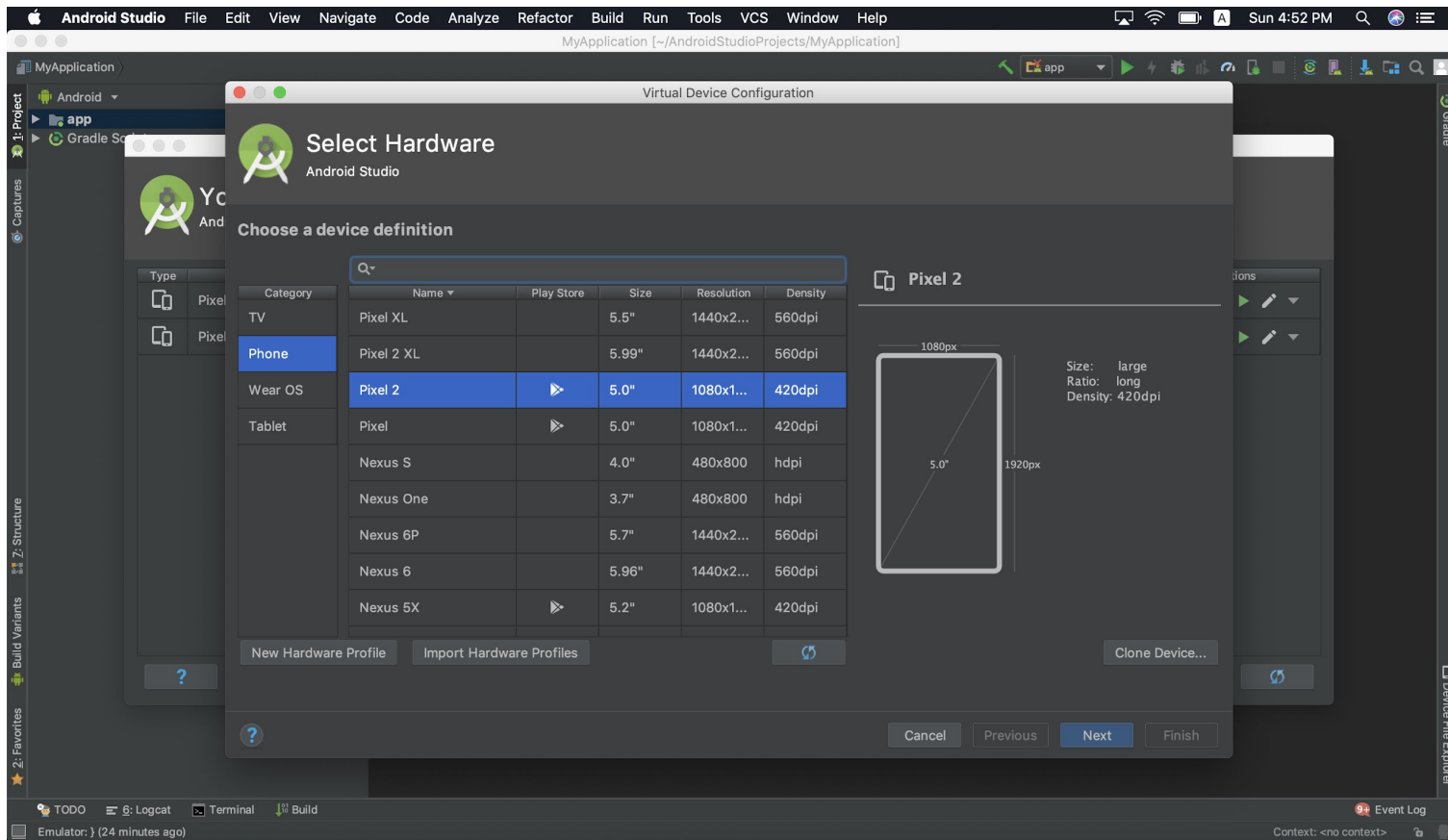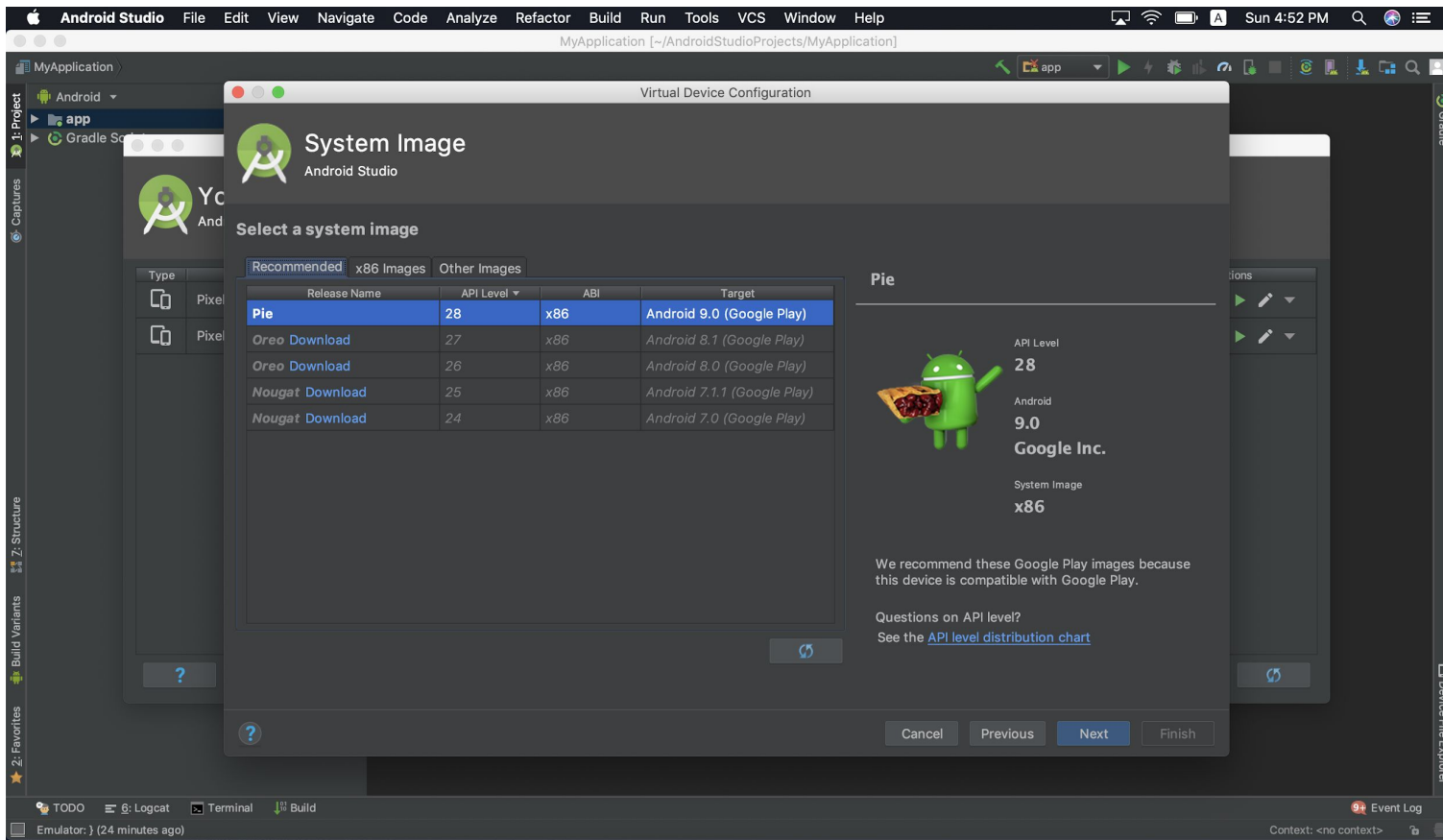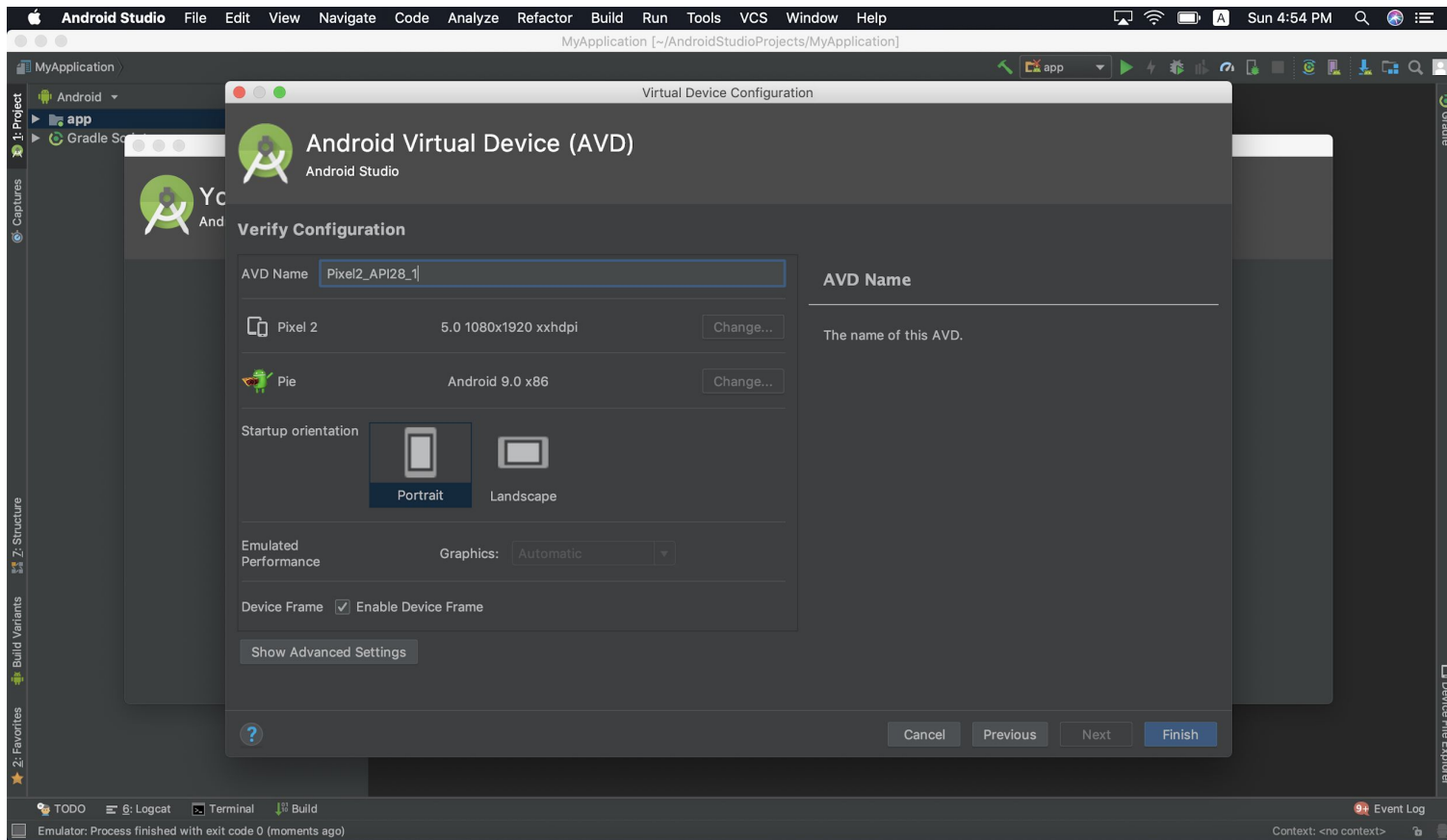
SET UP
ANDROID EMULATOR

Set up Android Emulator
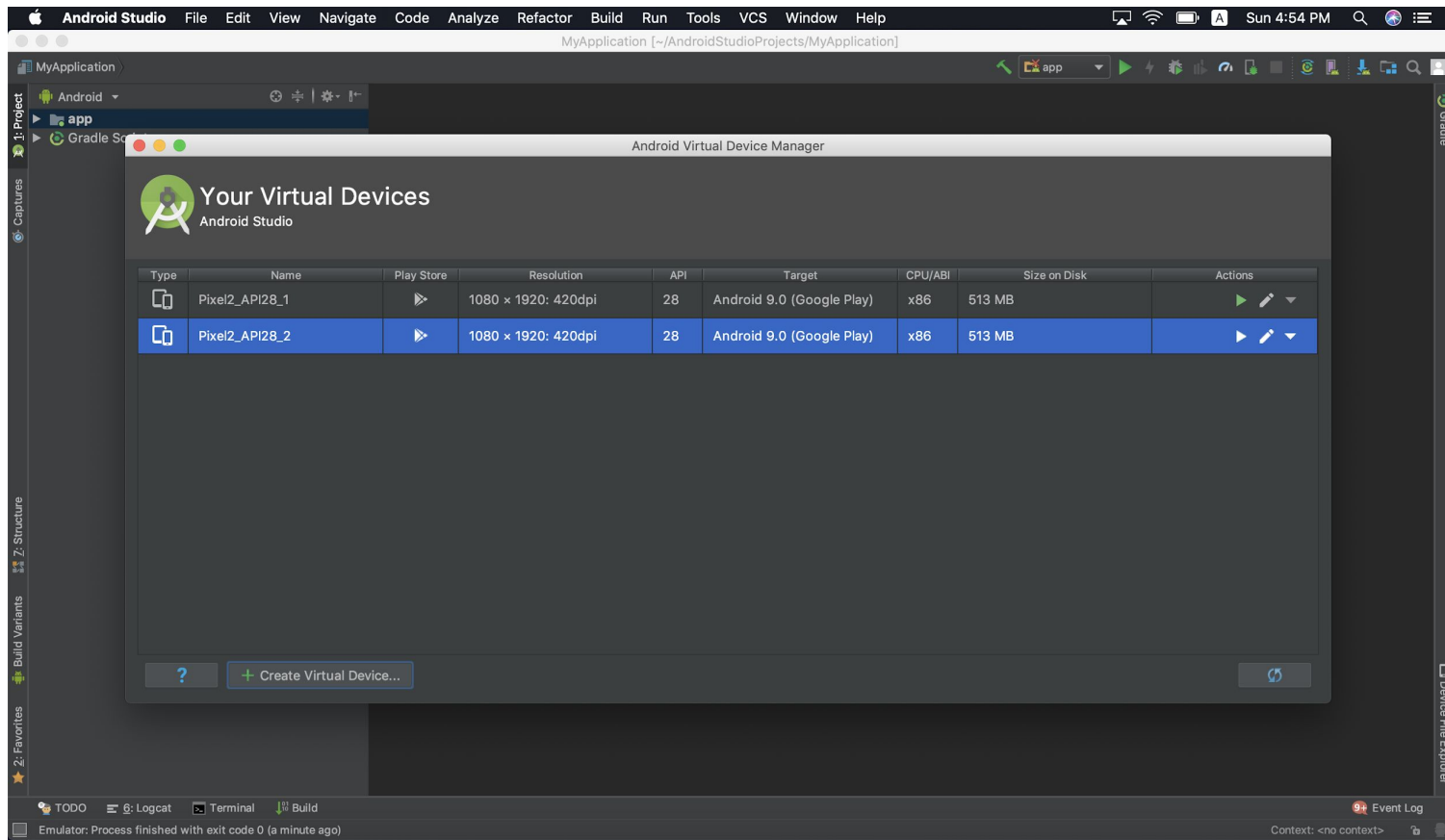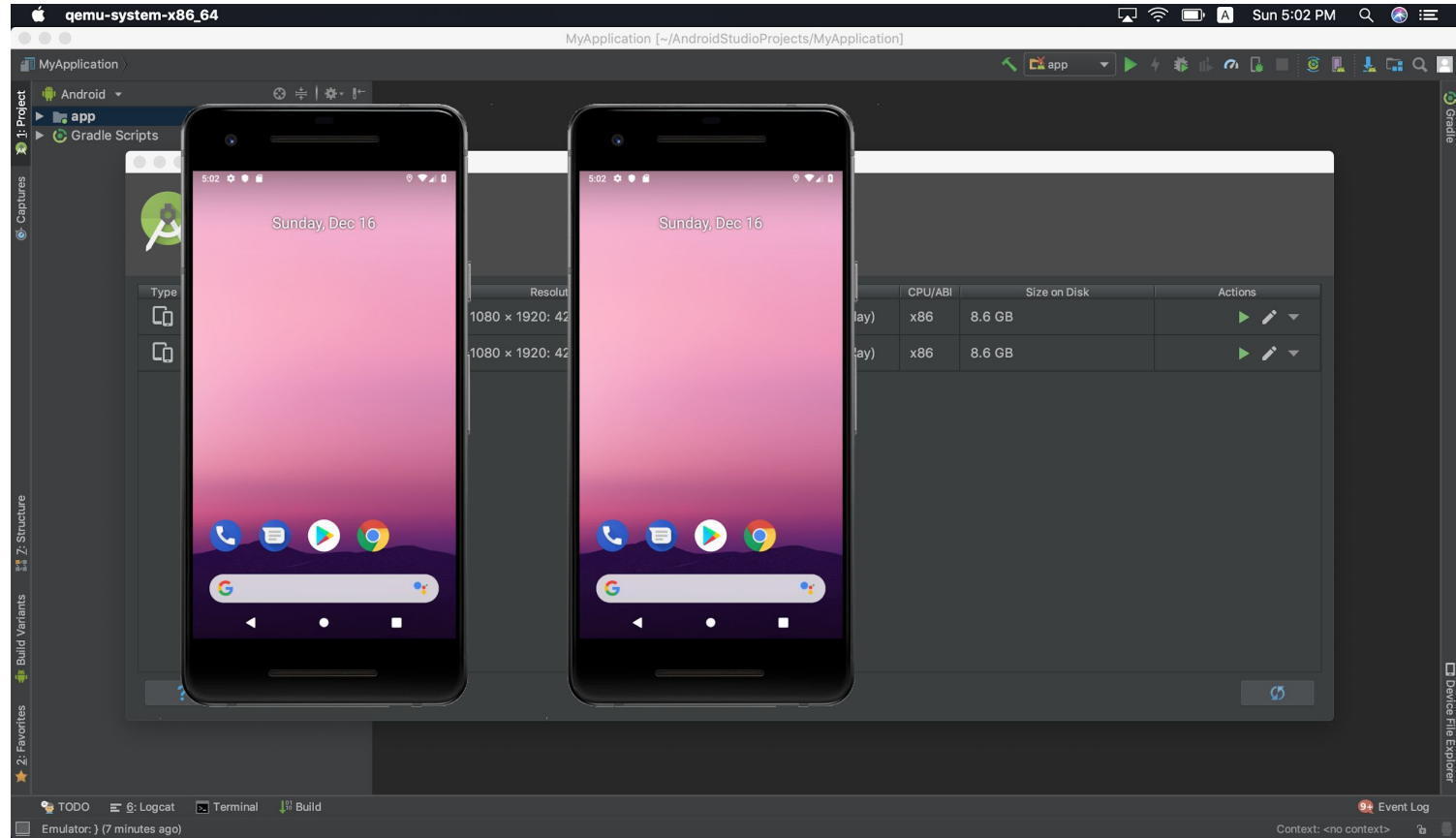
Set up Android Emulator

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Set up Android Emulator

- **adb** (https://developer.android.com/studio/command-line/adb)

  Check connected android devices : adb devices

  ```
  Carousells-MacBook-Pro:~ carousell$ adb devices
  List of devices attached
  emulator-5554    device
  emulator-5556    device
  ```

  Add $ANDROID_PLATFORMTOOLS_HOME into PATH

  ```
                                                    1. bash
  Carousells-MacBook-Pro:~ carousell$ cat ~/.bash_profile
  export JAVA_HOME=$(/usr/libexec/java_home)
  export ANDROID_HOME=/Users/carousell/Library/Android/sdk
  export ANDROID_PLATFORM_TOOLS_HOME=$ANDROID_HOME/platform-tools
  export PATH=$PATH:$JAVA_HOME/bin:$ANDROID_HOME:$ANDROID_PLATFORM_TOOLS_HOME
  ```

Set up Android Emulator

- **emulator** (https://developer.android.com/studio/run/emulator-commandline)

  Show emulators : emulator -list-avds

  Launch emulator : emulator -avds Pixel2_API28_2

  Add $ANDROID_EMULATOR into PATH

```
Carousells-MBP:~ carousell$ cat ~/.bash_profile
export JAVA_HOME=$(/usr/libexec/java_home)
export ANDROID_HOME=$HOME/Library/Android/sdk
export ANDROID_PLATFORMTOOLS=$ANDROID_HOME/platform-tools
export ANDROID_TOOLS=$ANDROID_HOME/tools
export ANDROID_EMULATOR=$ANDROID_HOME/emulator
export PATH=$PATH:$JAVA_HOME/bin:$ANDROID_HOME:$ANDROID_EMULATOR:$ANDROID_PLATFORMTOOLS:$ANDROID_TOOLS
```