

REPORT

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Lớp học phần : Phát triển ứng dụng di động đa nền tảng (4)

LAB 1: I AM RICH

1. Introduction

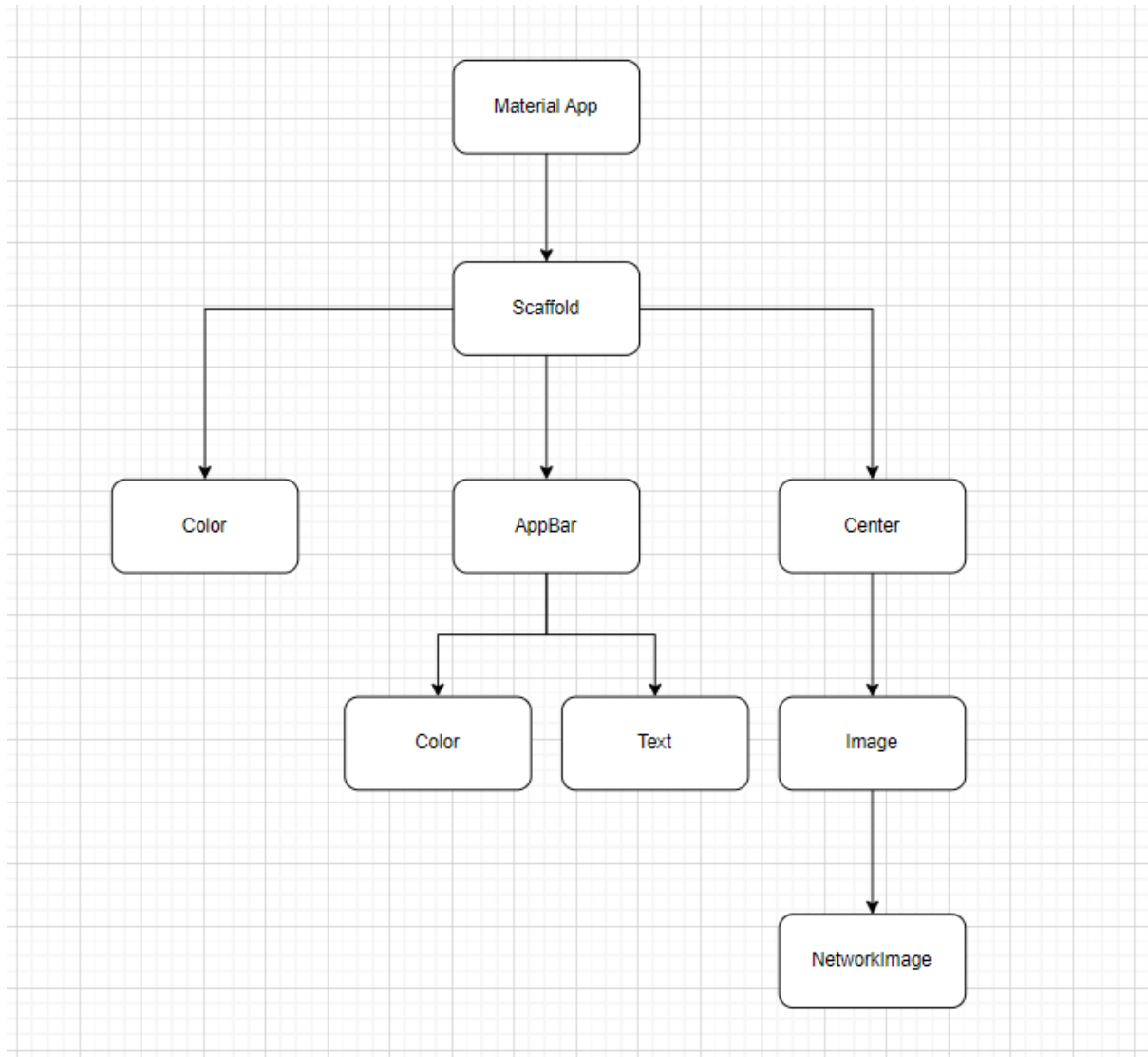
- Create an app called I Am Rich and app that basically does absolutely nothing.
- It just shows a single icon of a red ruby on the screen. And decide to price it at the maximum possible price at the App Store would allow, which was \$999.99, and pitched it as an art and lifestyle app, for people who are very rich to display to other people how rich they are.

2. Objectives

- Flutter development and build our very first app. And that app is an app called I Am Rich.

3. Methodology

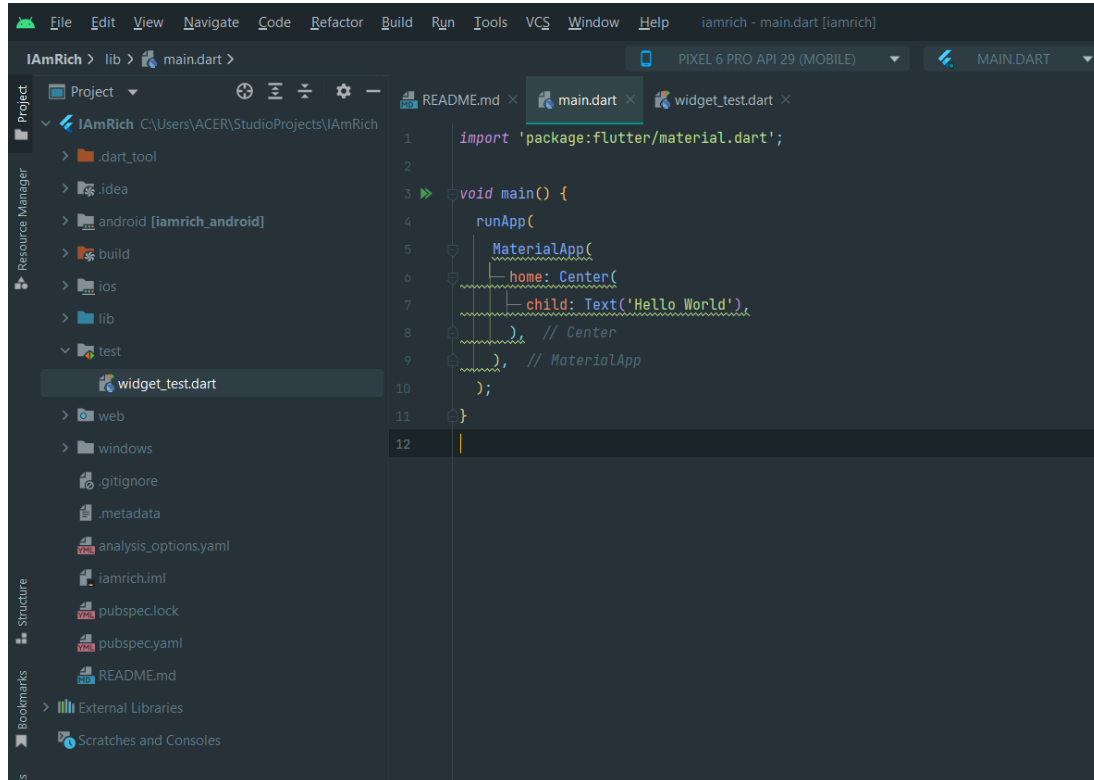
- **I Am Rich Structure**



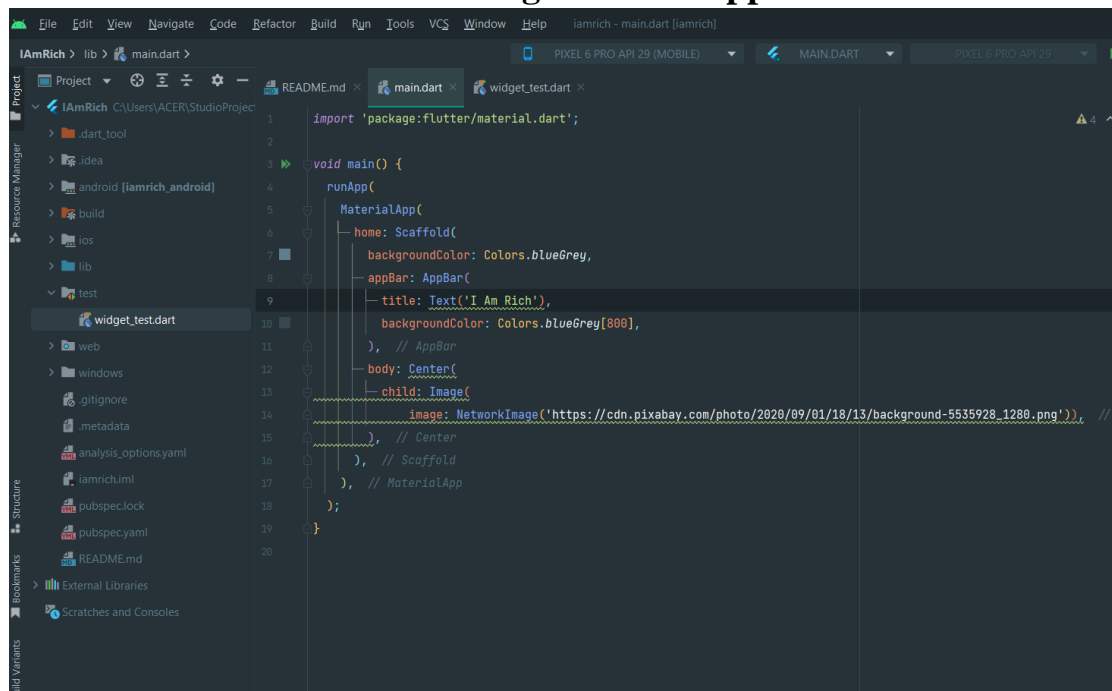
- User interface design with diamond member image.
- Programming image display functions and interactive facilities.
- Test the app on Android and iOS devices.

4. Results

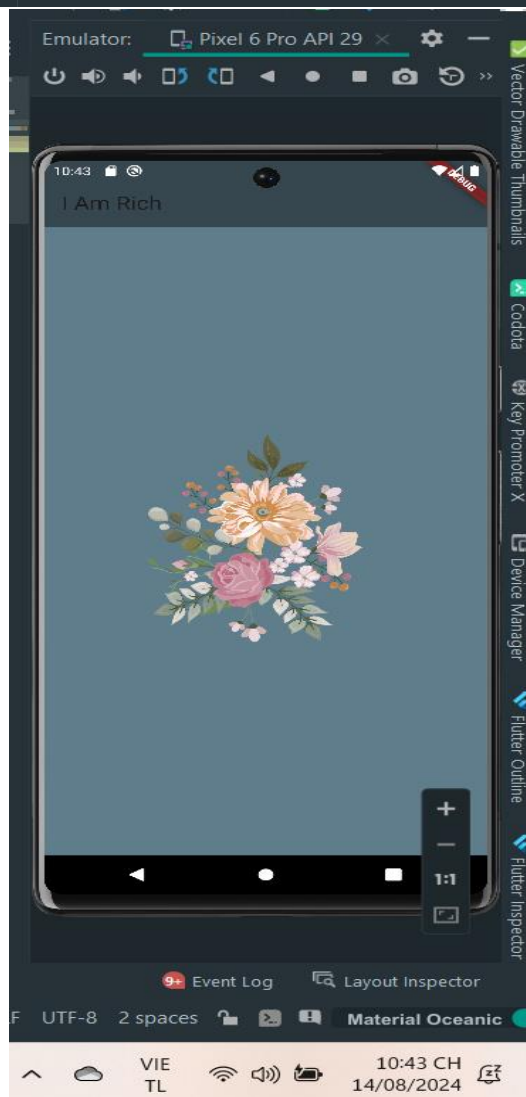
○ Creating a New Flutter Project from Scratch:



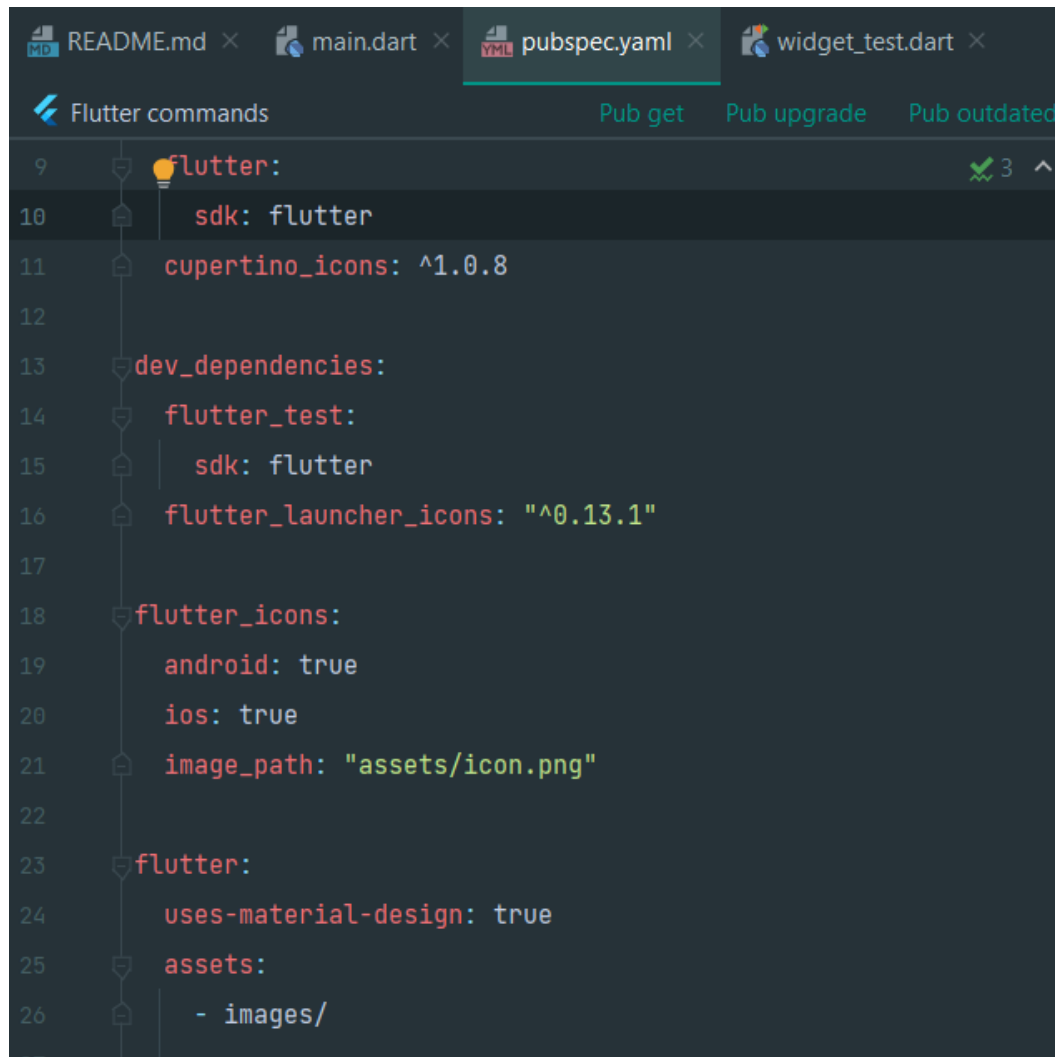
○ Scaffolding a Flutter App



```
1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(
5     MaterialApp(
6       home: Scaffold(
7         backgroundColor: Colors.blueGrey,
8         appBar: AppBar(
9           title: Text('I Am Rich'),
10          backgroundColor: Colors.blueGrey[800],
11        ), // AppBar
12        body: Center(
13          child: Image(
14            image: NetworkImage('https://cdn.pixabay.com/photo/2020/09/01/18/13/background-5535928_1280.png'), //
15          ), // Center
16        ), // Scaffold
17      ), // MaterialApp
18    );
19  }
20 }
```



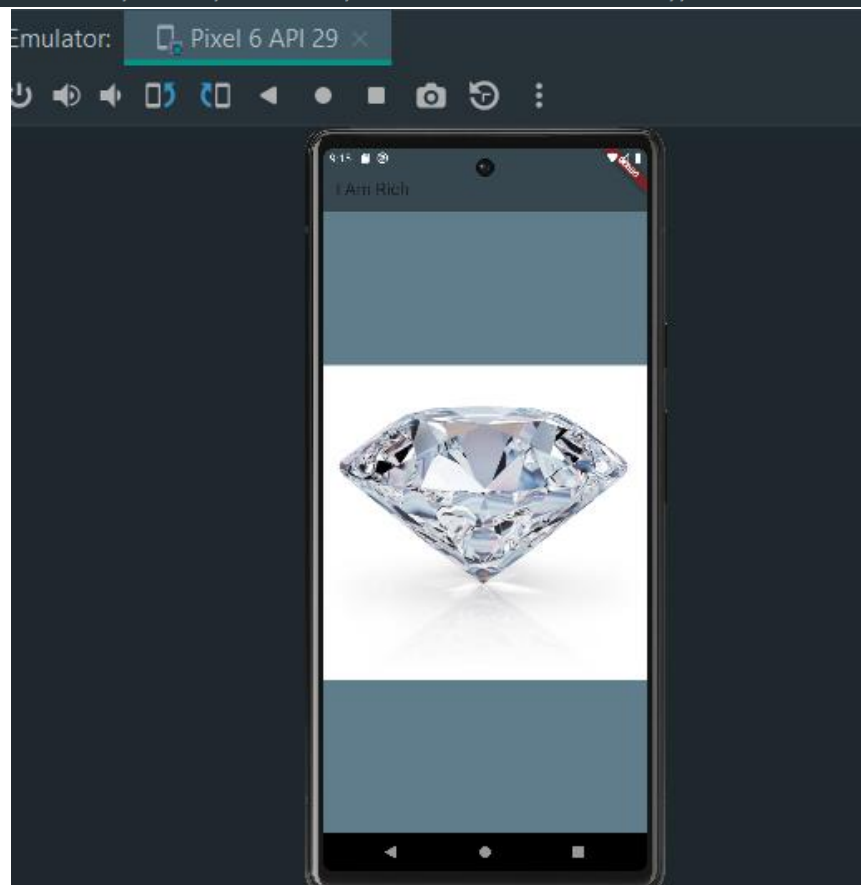
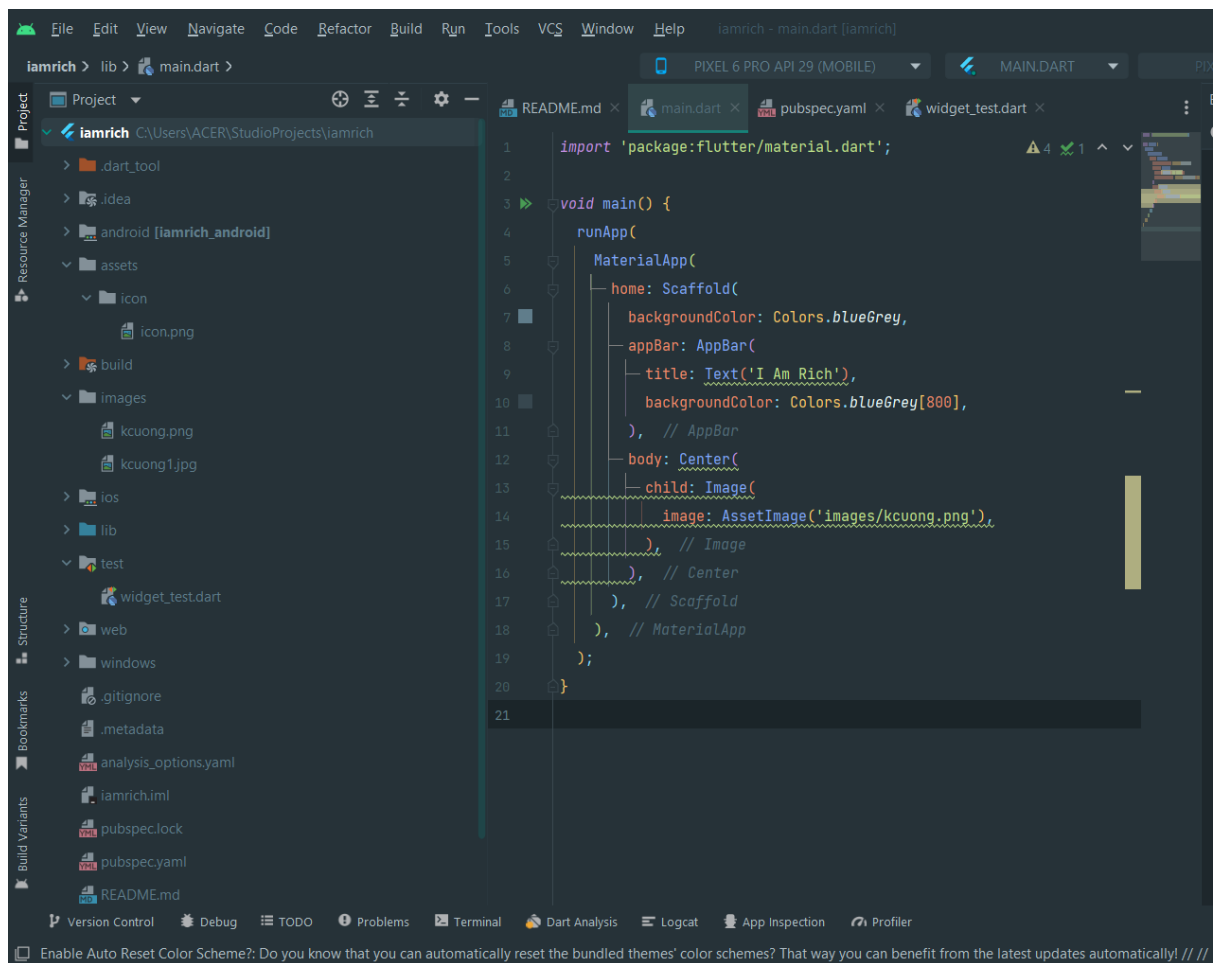
- Working with Assets in Flutter & the Pubspecc file
 - o Configuration file pubspec.yaml



The image shows a code editor window with the file `pubspec.yaml` selected. The editor displays the following YAML configuration for a Flutter project:

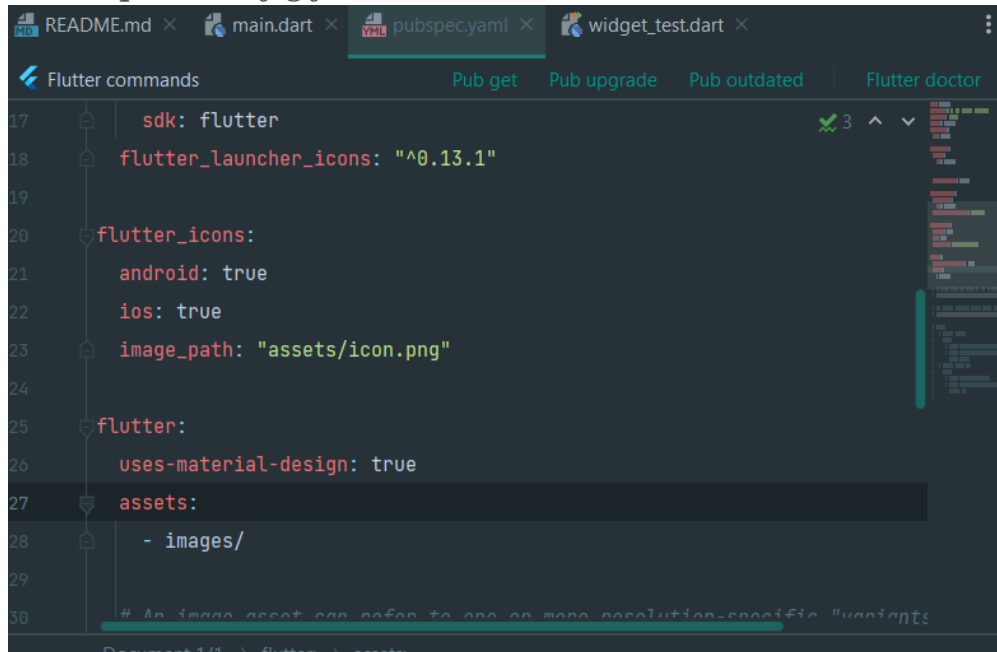
```
9 flutter:
10   sdk: flutter
11   cupertino_icons: ^1.0.8
12
13   dev_dependencies:
14     flutter_test:
15       sdk: flutter
16     flutter_launcher_icons: ^0.13.1
17
18   flutter_icons:
19     android: true
20     ios: true
21     image_path: "assets/icon.png"
22
23   flutter:
24     uses-material-design: true
25   assets:
26     - images/
```

The interface includes tabs for `README.md`, `main.dart`, `pubspec.yaml`, and `widget_test.dart`. Below the tabs, there are buttons for `Flutter commands`, `Pub get`, `Pub upgrade`, and `Pub outdated`. A vertical line on the left side of the code editor indicates the current position in the file.



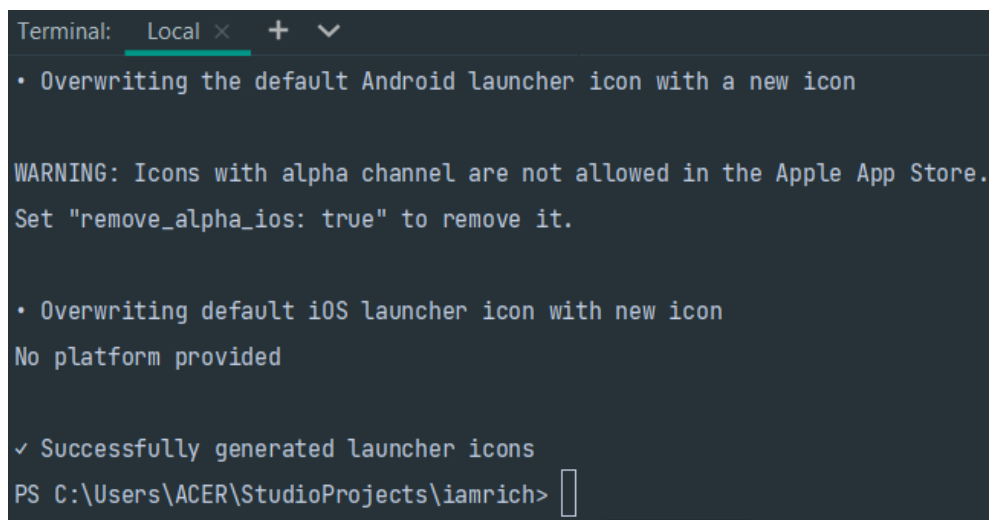
○ How to Add App Icons to the iOS and Android Apps

- *Setup the config file*



```
17  sdk: flutter
18  flutter_launcher_icons: "^0.13.1"
19
20  flutter_icons:
21    android: true
22    ios: true
23    image_path: "assets/icon.png"
24
25  flutter:
26    uses-material-design: true
27  assets:
28    - images/
29
30  # An image asset can refer to one or more resolution-specific "variants"
```

- ***Run the package***
- After setting up the configuration, all that is left to do is run the package.
 - flutter pub get
 - flutter pub run flutter_launcher_icons



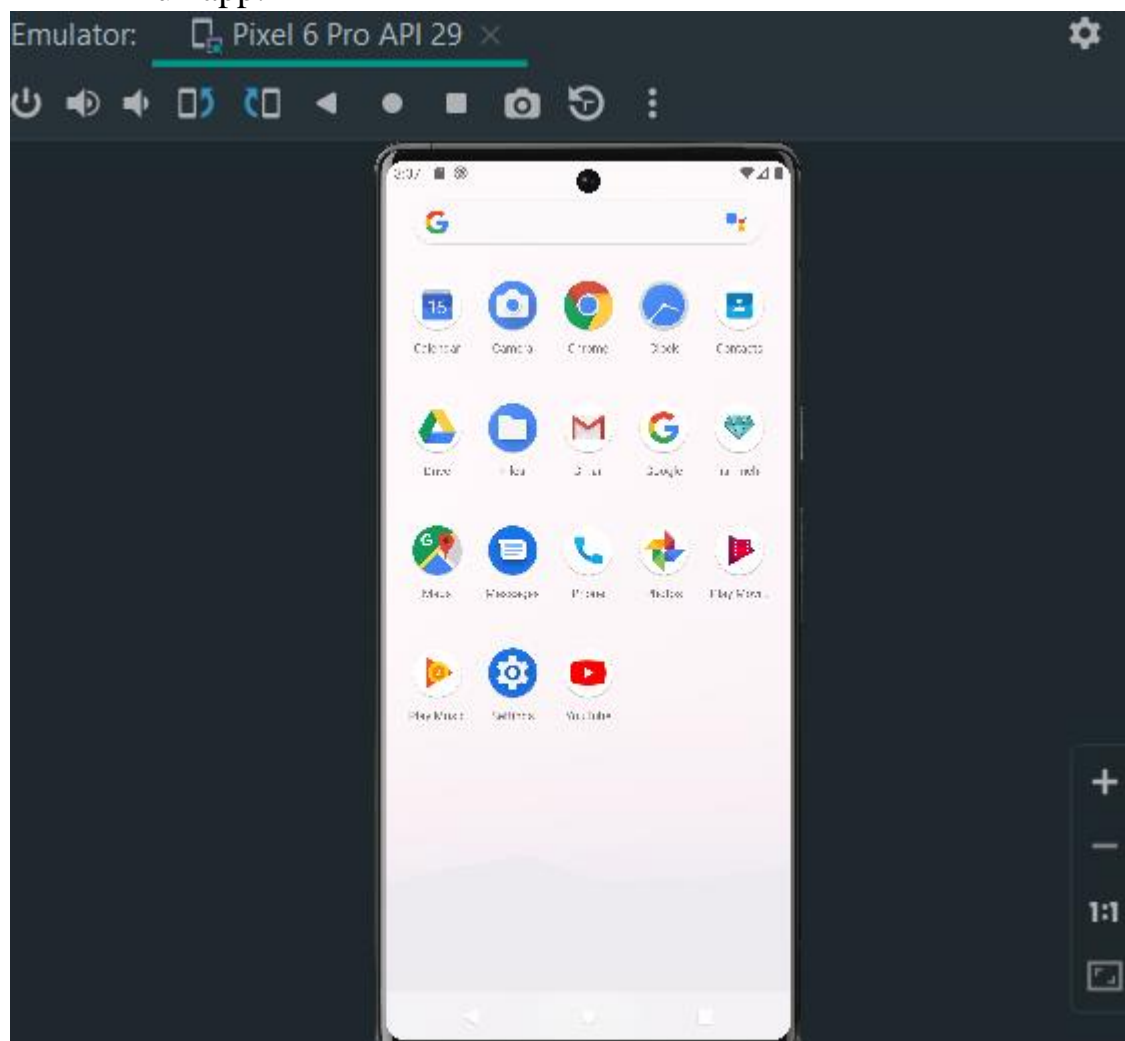
```
Terminal: Local x + v
• Overwriting the default Android launcher icon with a new icon

WARNING: Icons with alpha channel are not allowed in the Apple App Store.
Set "remove_alpha_ios: true" to remove it.

• Overwriting default iOS launcher icon with new icon
No platform provided

✓ Successfully generated launcher icons
PS C:\Users\ACER\StudioProjects\iamrich>
```

- Run app:



5. Discussion

- The "I Am Rich" application has no actual function, mainly for symbolic or entertainment purposes only.
- Strengths:
 - Use Flutter to enable fast and efficient app development across multiple platforms.
 - Simple application, minimalist interface makes it easy for users to access and use.
- Weaknesses:
 - Performance across device configurations needs to be improved.
 - The interface is not optimal on all types of devices, especially those with uncommon screen sizes.
 - The monotony of the app can affect the user's long-term enjoyment.

6. Conclusion

- The "I Am Rich" app development experiment was successfully deployed and tested on both Android and iOS platforms, meeting the initial goals of the project. The app demonstrated good compatibility and provided a simple experience that stayed true to its iconic purpose.