

CS 399: Mobile Application Development
Summer 2020

Homework-06

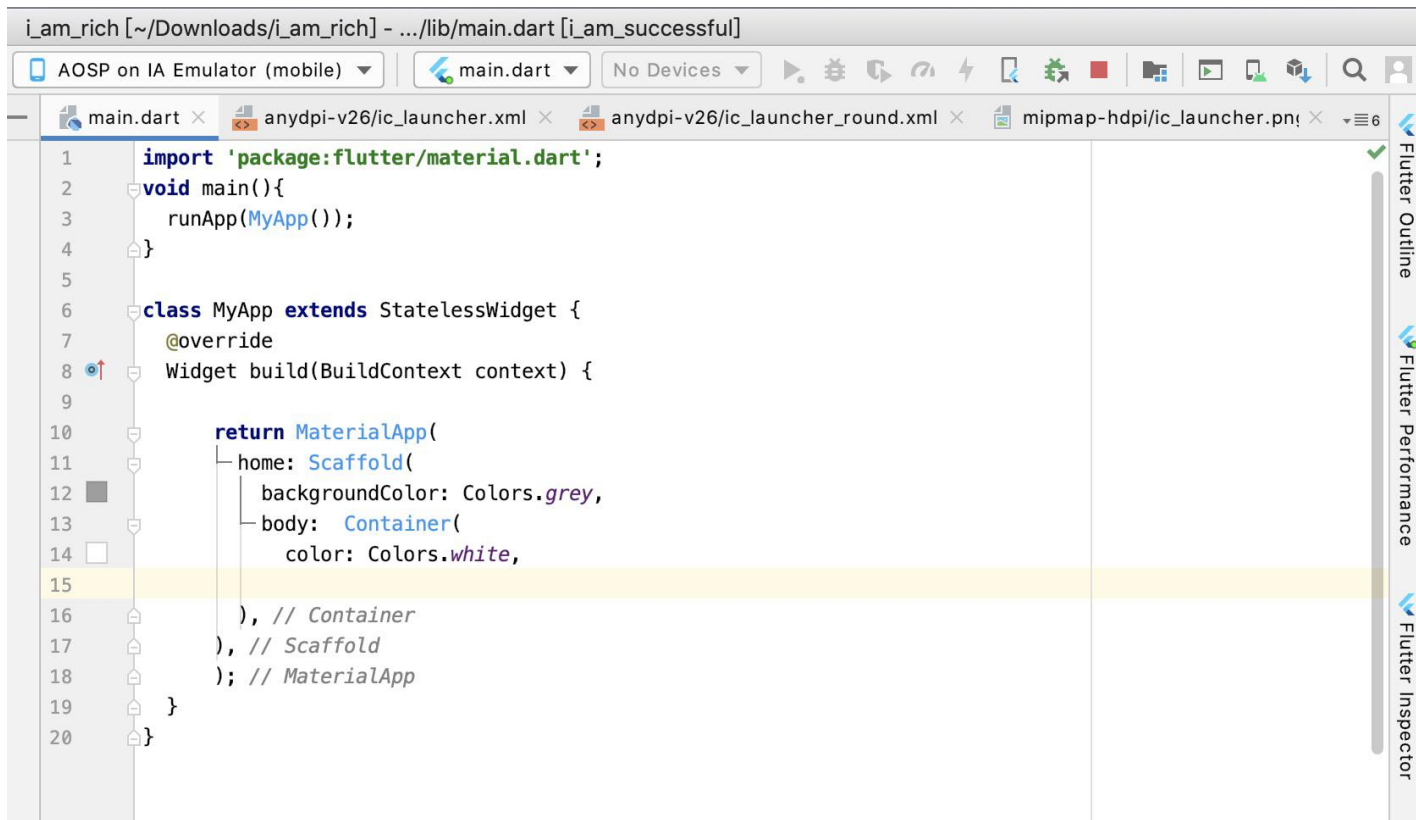
Due Friday June 19
30 Points Total

Hanyue Wang

CS-399(1204-2860) SPECIAL TOPICS 002 - MOBILE
APPLICATION DEVELOPMENT

Figures 1 and 2 below are the widget tree of a Flutter application and the existing screen display of the application. Figure 3 is the desired screen display of the Flutter application after modification.

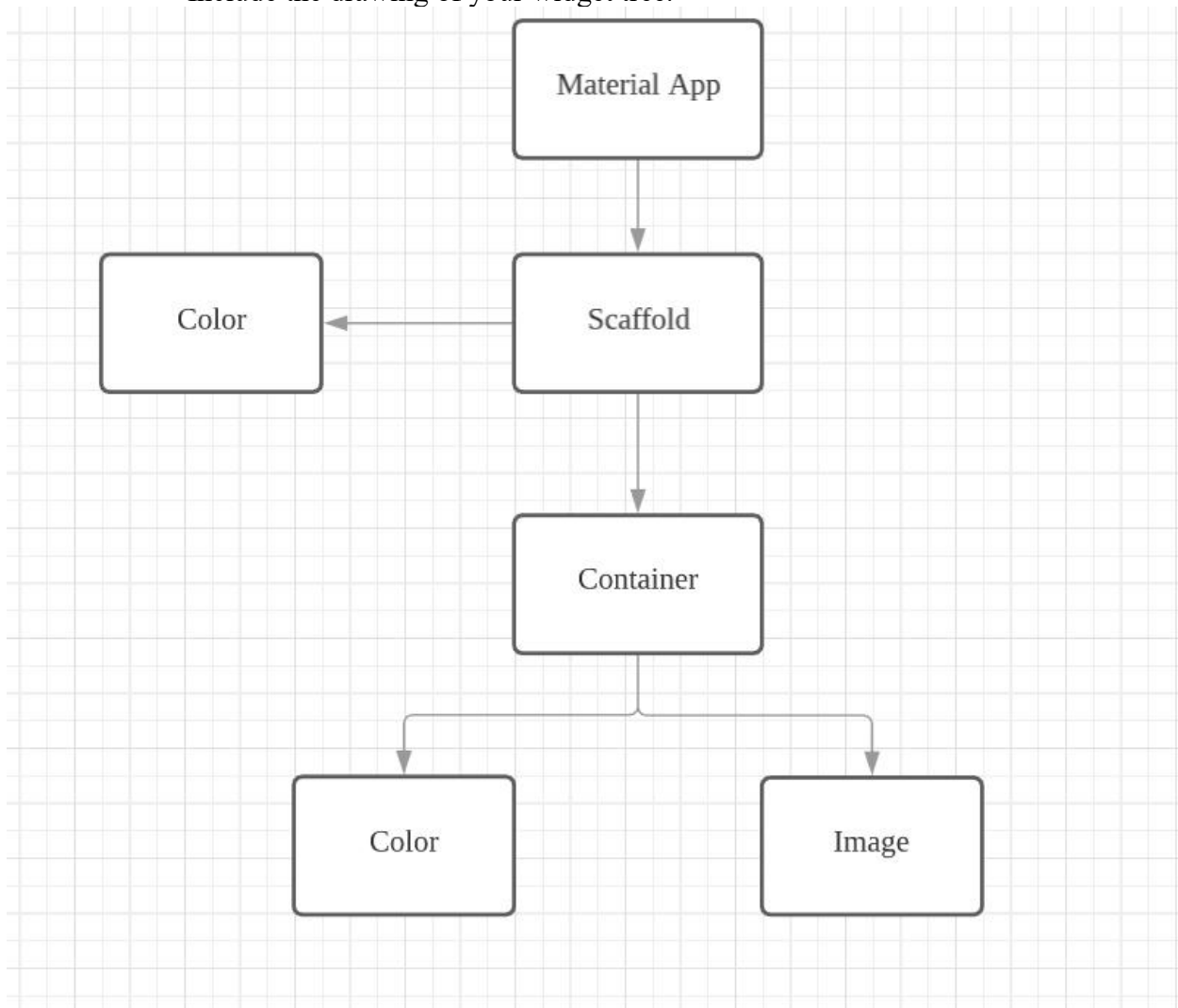
- 1) Implement the Flutter application based on the *Figure 1* widget hierarchy to display *Figure 2* screen display.
 - Include a snapshot of the *main.dart* file of your implementation.



```
i_am_rich [~/Downloads/i_am_rich] - .../lib/main.dart [i_am_successful]
AOSP on IA Emulator (mobile) | main.dart | No Devices | [Icons]
main.dart | anydpi-v26/ic_launcher.xml | anydpi-v26/ic_launcher_round.xml | mipmap-hdpi/ic_launcher.png | 6
1  import 'package:flutter/material.dart';
2  void main(){
3    runApp(MyApp());
4  }
5
6  class MyApp extends StatelessWidget {
7    @override
8    Widget build(BuildContext context) {
9
10     return MaterialApp(
11       home: Scaffold(
12         backgroundColor: Colors.grey,
13         body: Container(
14           color: Colors.white,
15
16         ), // Container
17       ), // Scaffold
18     ); // MaterialApp
19   }
20 }
```

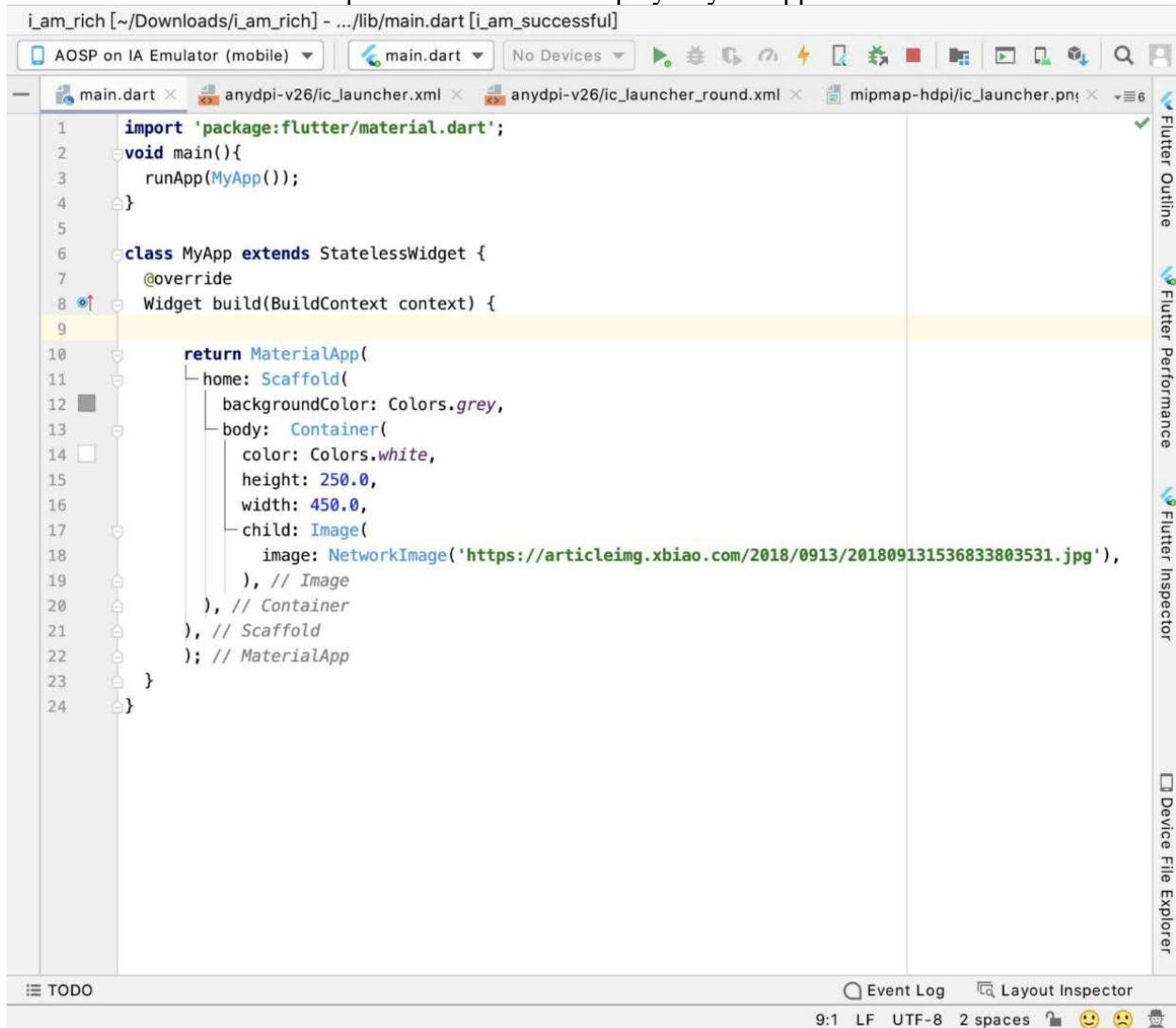
- 2) Show the widget tree of a Flutter application after adding the required widgets to the Container widget in *Figure 1* to achieve the desired display in *Figure 3*. Add the least number of widgets necessary.

- Include the drawing of your widget tree.



3) Implement the Flutter application based on the widget tree you designed in number 2 above to display *Figure 2* screen display. Use *NetworkImage* widget to display the image of your choice from the internet.

- Include a snapshot of the *main.dart* file of your implementation.
- Include a snapshot of the screen display of your application.



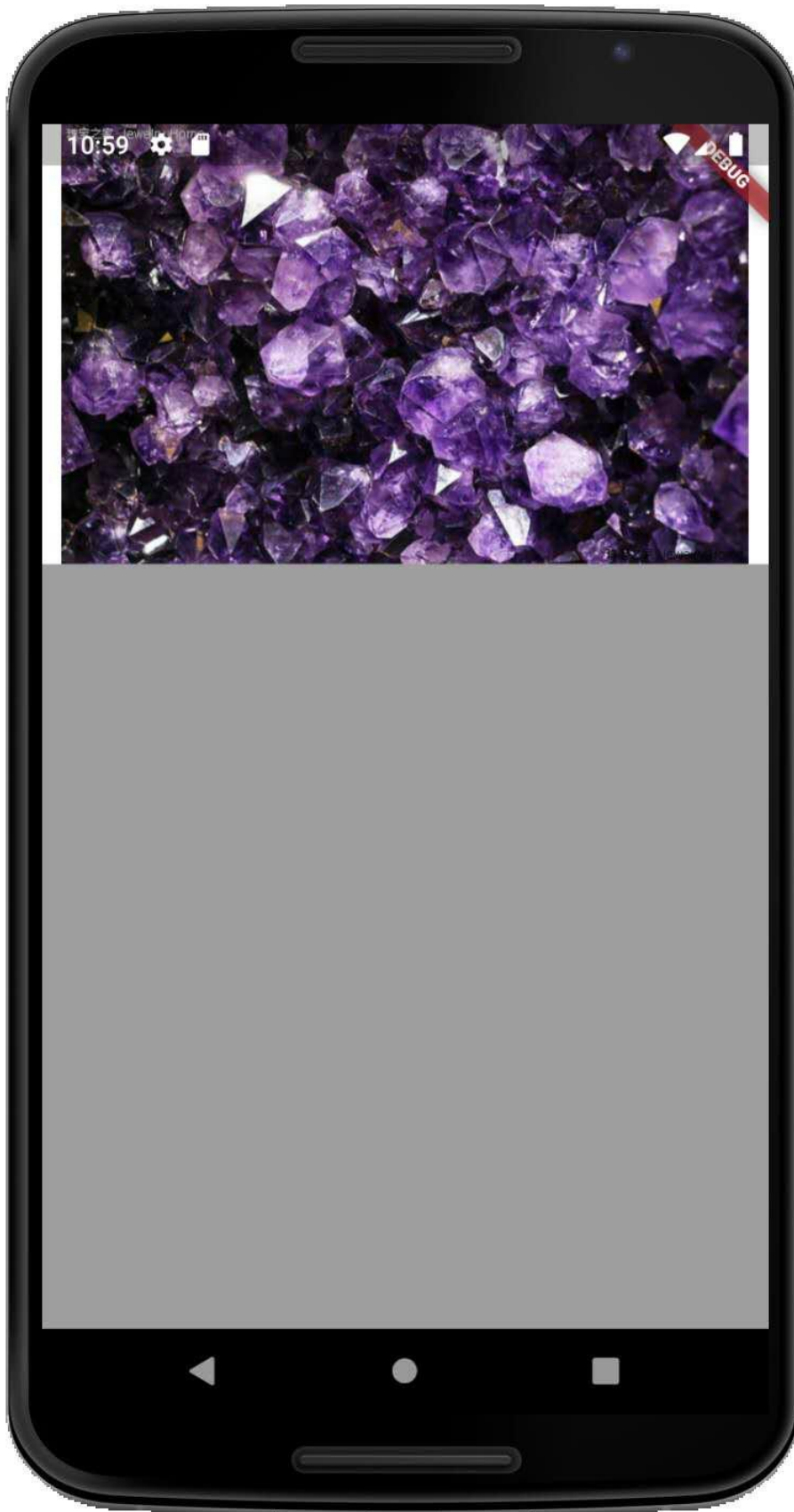


Figure 1: The current widget tree of Flutter application

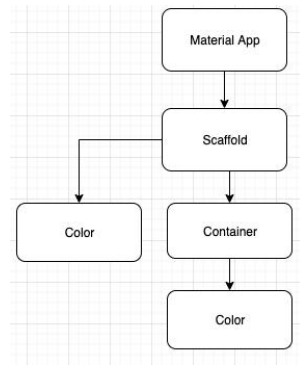


Figure 2: The current display of Flutter application

- The color of display is white.



Figure 3: The desired display of Flutter application

- The image displayed is a network image.
- The color of display is gray.



Reference:

LinkedIn Learning Video

Flutter: Part 3 – Flutter Widgets