



Resource Software Solution

Flutter

Training Assignments

Working with Widgets

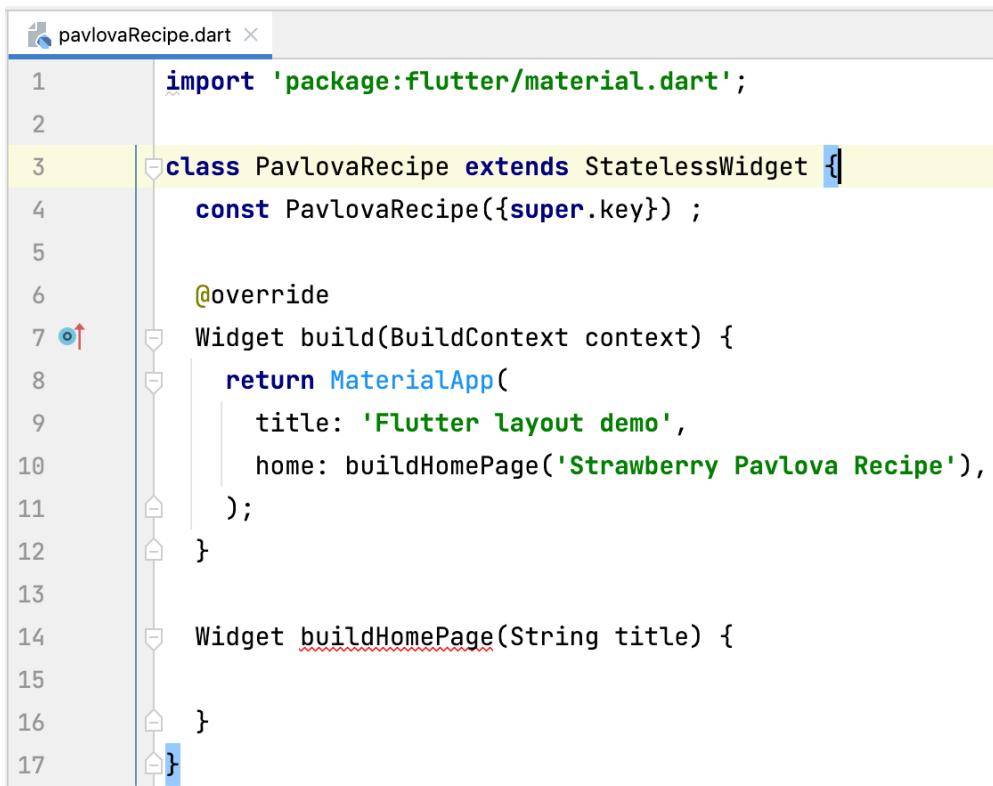
Overview

In this practice, you will learn about Flutter platform specific widgets.

Tasks

1. Open the Android Studio, navigate to the project folder and create file named **pavlovaRecipe.dart**

2. Open the **pavlovaRecipe.dart** file and write code below



```
1 import 'package:flutter/material.dart';
2
3 class PavlovaRecipe extends StatelessWidget {
4     const PavlovaRecipe({super.key});
5
6     @override
7     Widget build(BuildContext context) {
8         return MaterialApp(
9             title: 'Flutter Layout demo',
10            home: buildHomePage('Strawberry Pavlova Recipe'),
11        );
12    }
13
14    Widget buildHomePage(String title) {
15
16    }
17}
```

- Implement the **titleText** at **buildHomePage**



```
15 const titleText = Padding(
16     padding: EdgeInsets.only(bottom: 10),
17     child: Text(
18         'Strawberry Pavlova',
19         style: TextStyle(
20             fontWeight: FontWeight.w800,
21             letterSpacing: 0.5,
22             fontSize: 25,
23         ), // TextStyle
24     ), // Text
25 ); // Padding
```

- Implement the **subTitle** at buildHomePage

```
27 const subTitle = Text(  
28   'Pavlova is a meringue-based dessert named after the Russian ballerina '  
29   'Anna Pavlova. Pavlova features a crisp crust and soft, light inside,  
30   'topped with fruit and whipped cream.',  
31   textAlign: TextAlign.center,  
32   style: TextStyle(  
33     fontFamily: 'Georgia',  
34     fontSize: 20,  
35   ), // TextStyle  
36 ); // Text
```

- Implement the **ratings** at buildHomePage

```
39 var stars = Row(  
40   mainAxisAlignment: MainAxisAlignment.min,  
41   children: [  
42     ★ ■,  
43     ★ ■,  
44     ★ ■,  
45     ★ ■,  
46     ★ ■,  
47   ],  
48 ); // Row  
49  
50 // #end docregion stars  
51 final ratings = Container(  
52   padding: const EdgeInsets.all(20),  
53   child: Row(  
54     mainAxisAlignment: MainAxisAlignment.spaceEvenly,  
55     children: [  
56       stars,  
57       const Text(  
58         '170 Reviews',  
59         style: TextStyle(  
60           color: Colors.black,  
61           fontWeight: FontWeight.w800,  
62           fontFamily: 'Roboto',  
63           letterSpacing: 0.5,  
64           fontSize: 20,  
65         ), // TextStyle  
66       ), // Text  
67     ],  
68   ), // Row  
69 ); // Container
```

- Implement the **iconList** at buildHomePage

+ descTextStyle

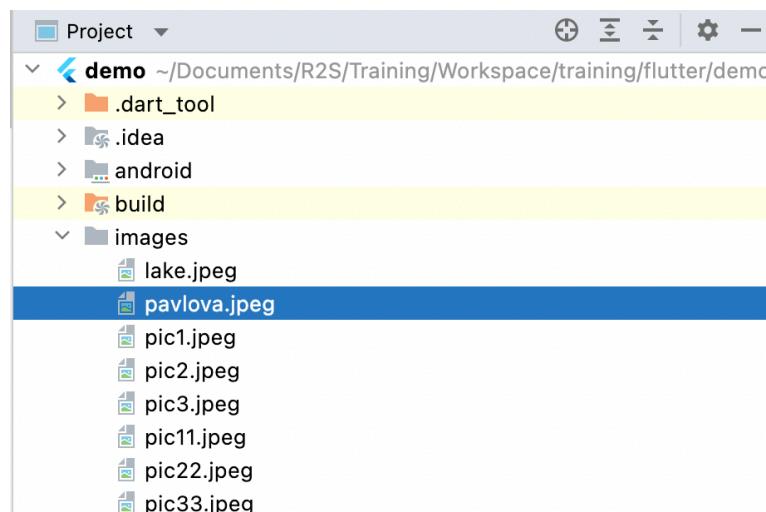
```
81 const descTextStyle = TextStyle(  
82   color: Colors.black,  
83   fontWeight: FontWeight.w800,  
84   fontFamily: 'Roboto',  
85   letterSpacing: 0.5,  
86   fontSize: 18,  
87   height: 2,  
88 );
```

+ iconList

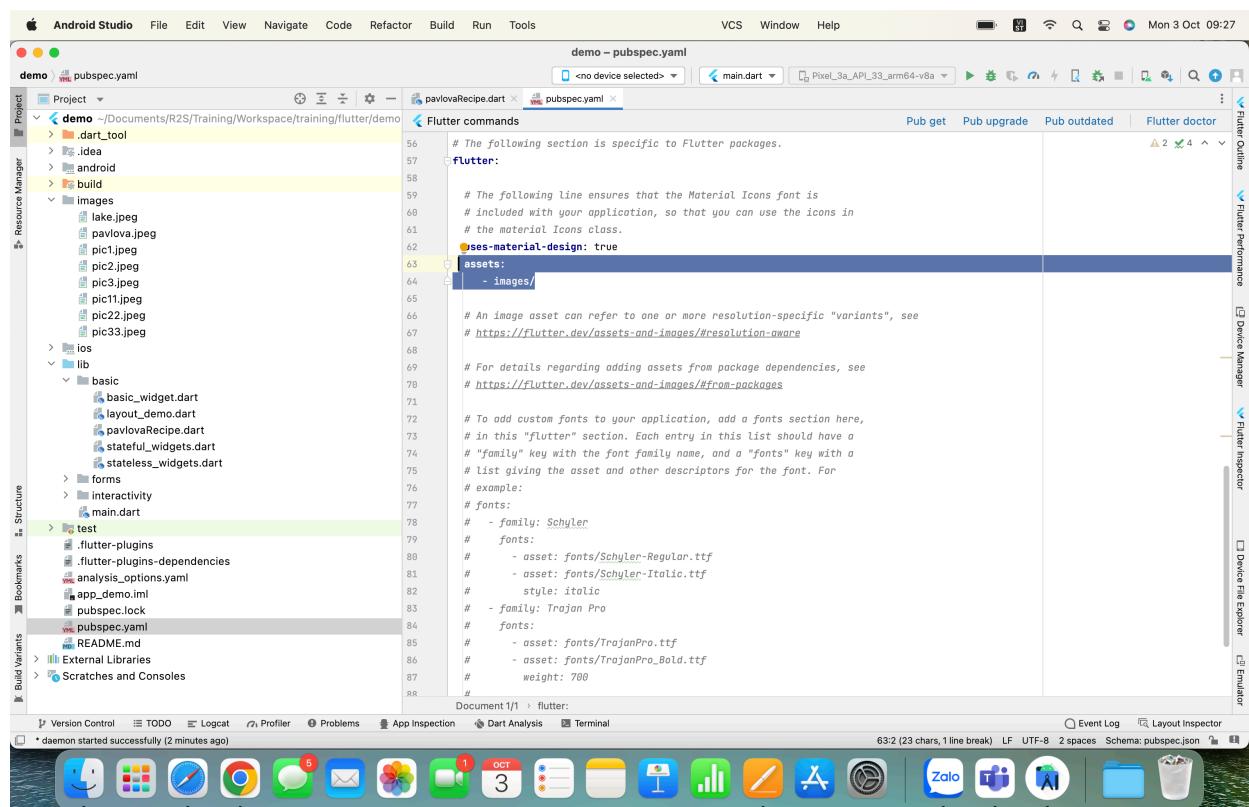
```
92 final iconList = DefaultTextStyle.merge(  
93   style: descTextStyle,  
94   child: Container(  
95     padding: const EdgeInsets.all(20),  
96     child: Row(  
97       mainAxisAlignment: MainAxisAlignment.spaceEvenly,  
98       children: [  
99         Column(  
100           children: [  
101             Icon(Icons.kitchen, color: Colors.green[500]),  
102             const Text('PREP:'),  
103             const Text('25 min'),  
104             ],  
105           ), // Column  
106           Column(  
107             children: [  
108               Icon(Icons.timer, color: Colors.green[500]),  
109               const Text('COOK:'),  
110               const Text('1 hr'),  
111               ],  
112             ), // Column  
113             Column(  
114               children: [  
115               Icon(Icons.restaurant, color: Colors.green[500]),  
116               const Text('FEEDS:'),  
117               const Text('4-6'),  
118               ],  
119             ), // Column  
120             ],  
121           ), // Row  
122         ), // Container  
123       );
```

- Implement the **mainImage** at buildHomePage

+ Create an **images** directory at the top of the project and add **pavlova.jpeg**



+ Update the **pubspec.yaml** file to include an **assets** tag. This makes the image available to your code.



+ Write code below

```

126 final mainImage = Image.asset(
127   'images/pavlova.jpeg',
128 );

```

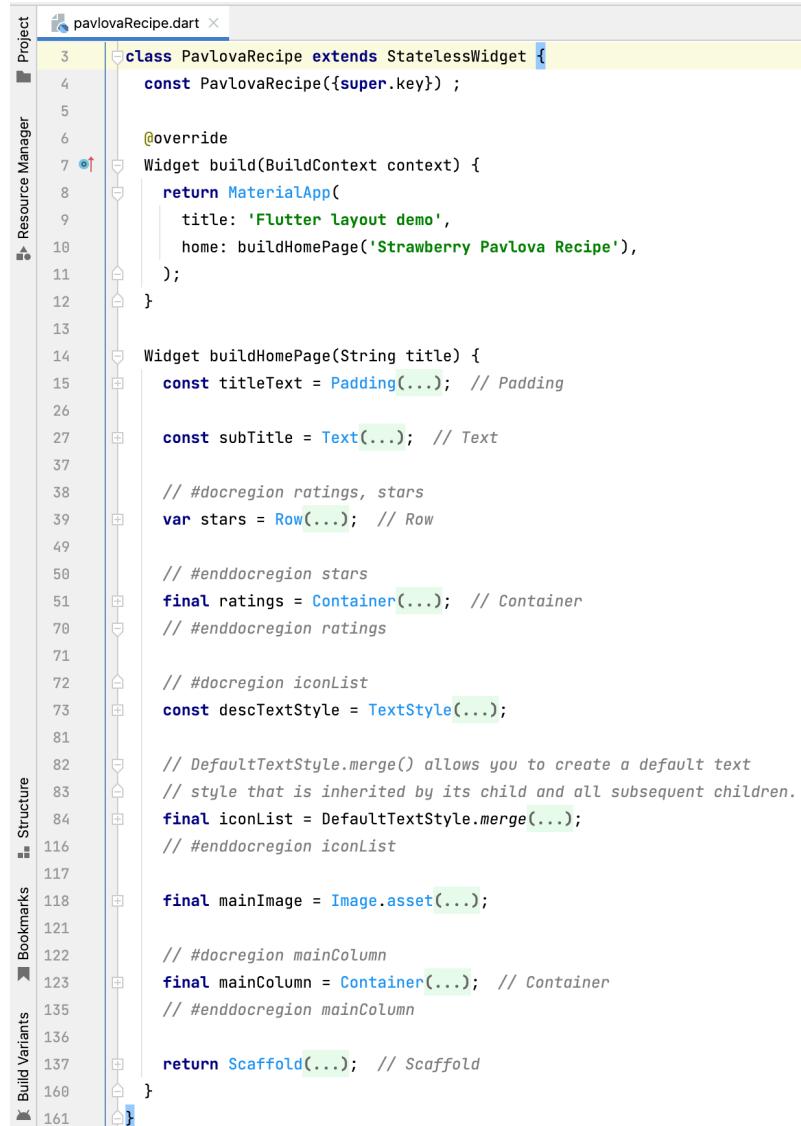
- Implement the **mainColumn** at buildHomePage

```
131     final mainColumn = Container(          ← yellow highlight
132         padding: const EdgeInsets.all(20),
133         child: Column(
134             children: [
135                 titleText,
136                 subTitle,
137                 ratings,
138                 iconList,
139                 Expanded(child: mainImage),
140             ],
141         ), // Column
142     ); // Container
```

- Implement the **Scaffold** at buildHomePage

```
145     return Scaffold(          ← yellow highlight
146         appBar: AppBar(
147             title: Text(title),
148         ), // AppBar
149         // #docregion body
150         body: Container(
151             margin: const EdgeInsets.fromLTRB(0, 10, 0, 30),
152             height: 600,
153             child: Row(
154                 mainAxisAlignment: MainAxisAlignment.start,
155                 children: [
156                     Expanded(
157                         child: SizedBox(
158                             width: 440,
159                             child: mainColumn,
160                         ), // SizedBox
161                     ), // Expanded
162                     //Expanded(child: mainImage) ,
163                 ],
164             ), // Row
165         ), // Container
166         // #enddocregion body
167     ); // Scaffold
```

- Final source code



```

class PavlovaRecipe extends StatelessWidget {
  const PavlovaRecipe({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter layout demo',
      home: buildHomePage('Strawberry Pavlova Recipe'),
    );
  }

  Widget buildHomePage(String title) {
    const titleText = Padding(...); // Padding
    const subTitle = Text(...); // Text

    // #docregion ratings, stars
    var stars = Row(...); // Row

    // #enddocregion stars
    final ratings = Container(...); // Container
    // #enddocregion ratings

    // #docregion iconList
    const descTextStyle = TextStyle(...);

    // DefaultTextStyle.merge() allows you to create a default text
    // style that is inherited by its child and all subsequent children.
    final iconList = DefaultTextStyle.merge(...);
    // #enddocregion iconList

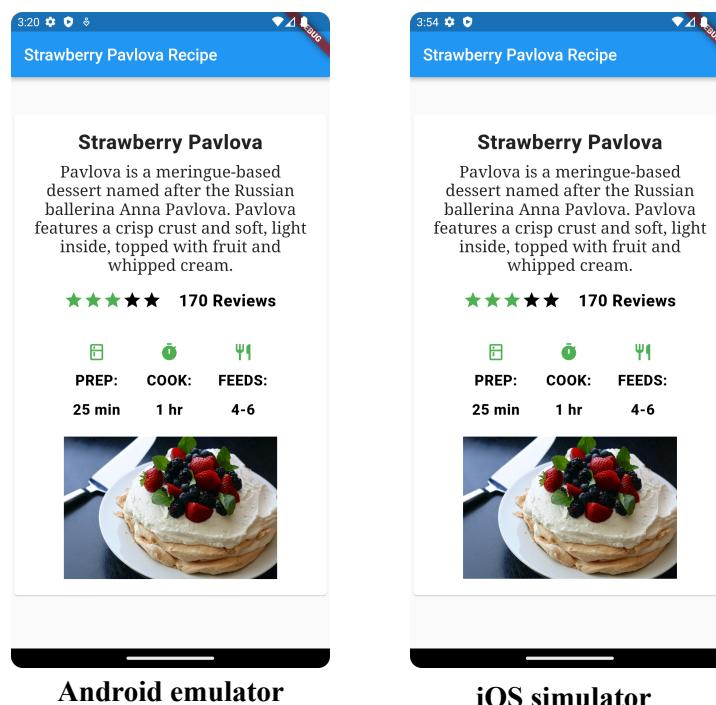
    final mainImage = Image.asset(...);

    // #docregion mainColumn
    final mainColumn = Container(...); // Container
    // #enddocregion mainColumn

    return Scaffold(...); // Scaffold
  }
}

```

3. Run the app



--THE END--