

Navigation & Screens

More than One Page

What's In This Section?

What "Navigation" and "Screens" Are

Pushing & Popping Pages

Tabs & Drawers

Passing Data Between Screens

PLANNING THE APP



STARTING WITH THE APP - ADDING BASE DATA

```
Q:\myworkspaces\flutter_ws>flutter create mealsapp_07
Creating project mealsapp_07...
mealsapp_07\lib\main.dart (created)
mealsapp_07\pubspec.yaml (created)
mealsapp_07\README.md (created)
mealsapp_07\test\widget_test.dart (created)
mealsapp_07\.gitignore (created)
mealsapp_07\.idea\libraries\Dart_SDK.xml (created)
mealsapp_07\.idea\libraries\KotlinJavaRuntime.xml (created)
mealsapp_07\.idea\modules.xml (created)
mealsapp_07\.idea\runConfigurations\main_dart.xml (created)
mealsapp_07\.idea\workspace.xml (created)
mealsapp_07\.metadata (created)
mealsapp_07\analysis_options.yaml (created)
mealsapp_07\android\app\build.gradle (created)
mealsapp_07\android\app\src\main\kotlin\com\example\mealsapp_07>MainActivity.kt (created)
mealsapp_07\android\build.gradle (created)
mealsapp_07\android\mealsapp_07_android.iml (created)
mealsapp_07\android\.gitignore (created)
mealsapp_07\android\app\src\debug\AndroidManifest.xml (created)
mealsapp_07\android\app\src\main\AndroidManifest.xml (created)
mealsapp_07\android\app\src\main\res\drawable\launch_background.xml (created)
mealsapp_07\android\app\src\main\res\drawable-v21\launch_background.xml (created)
```

```
mealsapp_07\web\favicon.png (created)
mealsapp_07\web\icons\Icon-192.png (created)
mealsapp_07\web\icons\Icon-512.png (created)
mealsapp_07\web\icons\Icon-maskable-192.png (created)
mealsapp_07\web\icons\Icon-maskable-512.png (created)
mealsapp_07\web\index.html (created)
mealsapp_07\web\manifest.json (created)
```

Running "flutter pub get" in mealsapp_07...

3.1s

Wrote 81 files.

All done!

In order to run your application, type:

```
$ cd mealsapp_07
$ flutter run
```

Your application code is in mealsapp_07\lib\main.dart.

Q:\myworkspaces\flutter_ws>cd mealsapp_07

Q:\myworkspaces\flutter_ws\mealsapp_07>code .

Q:\myworkspaces\flutter_ws\mealsapp_07>

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** main.dart - mealsapp_07 - Visual Studio Code.
- Left Sidebar (Explorer):**
 - OPEN EDITORS: main.dart lib (selected).
 - MEALSAPP_07: .dart_tool, .idea, android, ios, lib (selected), test, web, .gitignore, .metadata, .packages, analysis_options.yaml, mealsapp_07.iml, pubspec.lock, pubspec.yaml, README.md.
- Central Area:** The main.dart file content is displayed.

```
1 import 'package:flutter/material.dart';
2
3 void main() => runApp(MyApp());
4
5 class MyApp extends StatelessWidget {
6     @override
7     Widget build(BuildContext context) {
8         return MaterialApp(
9             title: 'DeliMeals',
10            theme: ThemeData(
11                primarySwatch: Colors.blue,
12            ), // ThemeData
13            home: MyHomePage(),
14        ); // MaterialApp
15    }
16 }
17
18 class MyHomePage extends StatefulWidget {
19     @override
20     _MyHomePageState createState() => _MyHomePageState();
21 }
```
- Bottom Status Bar:** Ln 7, Col 39, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... Start Debugging F5
Run Without Debugging Ctrl+F5
Stop Debugging Shift+F5
Restart Debugging Ctrl+Shift+F5
Open Configurations
Add Configuration...

Step Over F10
Step Into F11
Step Out Shift+F11
Continue F5
Toggle Breakpoint F9
New Breakpoint >
Enable All Breakpoints
Disable All Breakpoints
Remove All Breakpoints
Install Additional Debuggers...

```
import 'package:flutter/material.dart';
void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'DeliMeals',
      theme: ThemeData(
        primarySwatch: Colors.blue,
        themeData
      ),
      home: MyHomePage(),
    );
  }
}

class MyHomePage extends StatefulWidget {
  @override
  _MyHomePageState createState() => _MyHomePageState();
}
```

Ln 7, Col 39 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart x lib > main.dart > main

OPEN EDITORS main.dart lib MEALSAPP_07 .dart_tool .idea android build ios lib main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

8 return MaterialApp(
9 title: 'DeliMeals',
10 theme: ThemeData(
11 primarySwatch: Colors.blue,
12), // ThemeData
13 home: MyHomePage(),
14); // MaterialApp
15 }
16 }
17
18 class MyHomePage extends StatefulWidget {
19 @override
20 _MyHomePageState createState() => _MyHomePageState();
21 }
22
23 class _MyHomePageState extends State<MyHomePage> {
24
25 @override
26 Widget build(BuildContext context) {
27 return Scaffold(
28 appBar: AppBar(
29 title: Text('DeliMeals'),

7:51 DEBUG DeliMeals Navigation Time!

main.dart

Ln 3, Col 32 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart category build

lib > categories_screen.dart > CategoriesScreen > build

```
1 import 'package:flutter/material.dart';
2
3 class CategoriesScreen extends StatelessWidget {
4     @override
5     Widget build(BuildContext context) {
6         return GridView(
7             children: <Widget>[],
8             gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
9                 maxCrossAxisExtent: 200,
10                childAspectRatio: 3 / 2,
11                crossAxisSpacing: 20,
12                mainAxisSpacing: 20,
13            ), // SliverGridDelegateWithMaxCrossAxisExtent
14        ); // GridView
15    }
16 }
17
```

categories_screen.dart

Instead of “screen”, you can also use “page” or “route” - these terms are commonly used.

Prettier

File Edit Selection View Go Run Terminal Help category.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart 4 category.dart lib\models\category.dart ...

OPEN EDITORS main.dart lib categories_screen.dart 4 X category.dart lib\models

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart 4 main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

models\category.dart

```
1 import 'package:flutter/material.dart';
2
3 class Category {
4   final String id;
5   final String title;
6   final Color color;
7
8 const Category({
9   @required this.id,
10  @required this.title,
11  this.color = Colors.orange,
12 });
13 }
14 }
```

> OUTLINE > DEPENDENCIES

LN 14, COL 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help dummy_data.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS

- main.dart
- categories_screen.dart 2
- category.dart lib\models
- dummy_data.dart lib

MEALSAPP_07

- .dart_tool
- .idea
- android
- build
- ios
- lib
 - models
 - category.dart
 - categories_screen.dart 2
 - dummy_data.dart
 - main.dart
- test
- web
- .gitignore
- .metadata
- .packages
- analysis_options.yaml 1
- mealsapp_07.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE

DEPENDENCIES

dummy_data.dart

```
1 import 'package:flutter/material.dart';
2
3 import './models/category.dart';
4
5 const DUMMY_CATEGORIES = const [
6     Category(
7         id: 'c1',
8         title: 'Italian',
9         color: Colors.purple,
10    ),
11    Category(
12        id: 'c2',
13        title: 'Quick & Easy',
14        color: Colors.red,
15    ),
16    Category(
17        id: 'c3',
18        title: 'Hamburgers',
19        color: Colors.orange,
20    ),
21    Category(
22        id: 'c4',
23        title: 'Fried Chicken',
24        color: Colors.brown,
25    ),
26];
27
```

Ln 57, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

dummy_data.dart

File Edit Selection View Go Run Terminal Help dummy_data.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart 2 categories.dart lib\dummy_data.dart lib

OPEN EDITORS main.dart lib categories_screen.dart 2 category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart 2 dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

lib > dummy_data.dart > ...

```
18     title: 'Hamburgers',
19     color: Colors.orange,
20 ),
21 Category(
22   id: 'c4',
23   title: 'German',
24   color: Colors.amber,
25 ),
26 Category(
27   id: 'c5',
28   title: 'Light & Lovely',
29   color: Colors.blue,
30 ),
31 Category(
32   id: 'c6',
33   title: 'Exotic',
34   color: Colors.green,
35 ),
36 Category(
37   id: 'c7',
38   title: 'Breakfast',
39   color: Colors.lightBlue,
```

dummy_data.dart

Ln 57, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help dummy_data.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart 2 categories.dart lib\dummy_data.dart lib

OPEN EDITORS main.dart lib categories_screen.dart 2 category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart 2 dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

lib > dummy_data.dart > ...

```
36 Category(  
37   id: 'c7',  
38   title: 'Breakfast',  
39   color: Colors.lightBlue,  
40 ),  
41 Category(  
42   id: 'c8',  
43   title: 'Asian',  
44   color: Colors.lightGreen,  
45 ),  
46 Category(  
47   id: 'c9',  
48   title: 'French',  
49   color: Colors.pink,  
50 ),  
51 Category(  
52   id: 'c10',  
53   title: 'Summer',  
54   color: Colors.teal,  
55 ),  
56 ];  
57 
```

dummy_data.dart

Ln 57, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

IMPORTANT - ADJUSTING THE STARTING PROJECT

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** pubspec.yaml - mealsapp_07 - Visual Studio Code
- Left Sidebar (EXPLORER):**
 - OPEN EDITORS: main.dart, categories_screen.dart, pubspec.yaml (highlighted), dummy_data.dart.
 - MEALSAPP_07 folder:
 - .dart_tool
 - .idea
 - android
 - build
 - ios
 - lib
 - models
 - category.dart
 - categories_screen.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
 - .gitignore
 - .metadata
 - .packages
 - analysis_options.yaml
 - mealsapp_07.iml
 - pubspec.lock
 - pubspec.yaml
 - README.md
 - OUTLINE
 - DEPENDENCIES
- Central Area:** The pubspec.yaml file is open and displayed. The code content is as follows:

```
1 name: mealsapp_07
2 description: A new Flutter project.
3
4 # The following line prevents the package from being accidentally published to
5 # pub.dev using `flutter pub publish`. This is preferred for private packages.
6 publish_to: "none" # Remove this line if you wish to publish to pub.dev
7
8 # The following defines the version and build number for your application.
9 # A version number is three numbers separated by dots, like 1.2.43
10 # followed by an optional build number separated by a +.
11 # Both the version and the builder number may be overridden in flutter
12 # build by specifying --build-name and --build-number, respectively.
13 # In Android, build-name is used as versionName while build-number used as versionCode.
14 # Read more about Android versioning at https://developer.android.com/studio/publish/vers
15 # In iOS, build-name is used as CFBundleShortVersionString while build-number used as CFB
16 # Read more about iOS versioning at
17 # https://developer.apple.com/library/archive/documentation/General/Reference/InfoPlistKe
18 version: 1.0.0+1
19
20 environment:
21   sdk: >=2.11.0 <3.0.0"
22
```

- Bottom Status Bar:** Ln 22, Col 1 (26 selected) Spaces: 2 UTF-8 CRLF YAML Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) ✓ Prettier

CREATING A GRID AND WORKING WITH LINEAR GRADIENTS

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category.dart dummy_data.dart

lib > category_item.dart > ...

```
1 import 'package:flutter/material.dart';
2
3 class CategoryItem extends StatelessWidget {
4   final String title;
5   final Color color;
6
7   CategoryItem(this.title, this.color);
8
9   @override
10  Widget build(BuildContext context) {
11    return Container(
12      padding: const EdgeInsets.all(15),
13      child: Text(title),
14      decoration: BoxDecoration(
15        gradient: LinearGradient(
16          colors: [
17            color.withOpacity(0.7),
18            color,
19          ],
20          begin: Alignment.topLeft,
21          end: Alignment.bottomRight,
22        ), // LinearGradient
23    );
24  }
25}
```

category_item.dart

Ln 28, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category.dart dummy_data.dart

lib > category_item.dart > ...

```
CategoryItem(this.title, this.color);  
@override  
Widget build(BuildContext context) {  
    return Container(  
        padding: const EdgeInsets.all(15),  
        child: Text(title),  
        decoration: BoxDecoration(  
            gradient: LinearGradient(  
                colors: [  
                    color.withOpacity(0.7),  
                    color,  
                ],  
                begin: Alignment.topLeft,  
                end: Alignment.bottomRight,  
            ), // LinearGradient  
            borderRadius: BorderRadius.circular(15),  
        ), // BoxDecoration  
    ); // Container  
}  
}  
}
```

category_item.dart

Ln 28, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart X pubspec. lib categories_screen.dart > CategoriesScreen > build category.dart dummy_data.dart

OPEN EDITORS main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

categories_screen.dart

```
3 import 'category_item.dart';
4 import 'dummy_data.dart';
5
6 class CategoriesScreen extends StatelessWidget {
7     @override
8     Widget build(BuildContext context) {
9         return GridView(
10             children: DUMMY_CATEGORIES
11             .map(
12                 (catData) => CategoryItem(
13                     catData.title,
14                     catData.color,
15                 ), // CategoryItem
16             )
17             .toList(),
18             gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
19                 maxCrossAxisExtent: 200,
20                 childAspectRatio: 3 / 2,
21                 crossAxisSpacing: 20,
22                 mainAxisSpacing: 20,
23             ), // SliverGridDelegateWithMaxCrossAxisExtent
24         ); // GridView
```

Ln 18, Col 1 (224 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

REGISTERING A SCREEN AS THE MAIN SCREEN

File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart X pubspec. lib categories_screen.dart > CategoriesScreen > build category.dart dummy_data.dart

OPEN EDITORS main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

categories_screen.dart

```
1 import 'package:flutter/material.dart';
2
3 import './dummy_data.dart';
4 import './category_item.dart';
5
6 class CategoriesScreen extends StatelessWidget {
7     @override
8     Widget build(BuildContext context) {
9         return Scaffold(
10             appBar: AppBar(
11                 title: const Text('DeliMeal'),
12             ), // AppBar
13             body: GridView(
14                 children: DUMMY_CATEGORIES
15                     .map(
16                         (catData) => CategoryItem(
17                             catData.title,
18                             catData.color,
19                         ), // CategoryItem
20                     )
21                     .toList(),
22             gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
```

Ln 17, Col 31 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart X pubspec. CategoryScreen build category.dart dummy_data.dart

OPEN EDITORS main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

lib > categories_screen.dart > CategoriesScreen > build

```
11     title: const Text('DeliMeal'),
12   ), // AppBar
13   body: GridView(
14     children: DUMMY_CATEGORIES
15       .map(
16         (catData) => CategoryItem(
17           catData.title,
18           catData.color,
19         ), // CategoryItem
20       )
21       .toList(),
22   gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
23     maxCrossAxisExtent: 200,
24     childAspectRatio: 3 / 2,
25     crossAxisSpacing: 20,
26     mainAxisSpacing: 20,
27   ), // SliverGridDelegateWithMaxCrossAxisExtent
28   ), // GridView
29 ); // Scaffold
30 }
31 }
32 }
```

categories_screen.dart

Ln 17, Col 31 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec category.dart dummy_data.dart

lib > main.dart > ...

```
1 import 'package:flutter/material.dart';
2
3 import 'categories_screen.dart';
4
5 void main() => runApp(MyApp());
6
7 class MyApp extends StatelessWidget {
8   @override
9   Widget build(BuildContext context) {
10     return MaterialApp(
11       title: 'DeliMeals',
12       theme: ThemeData(
13         primarySwatch: Colors.blue,
14       ), // ThemeData
15       home: CategoriesScreen(),
16     ); // MaterialApp
17   }
18 }
19 }
```

Run | Debug | Profile

8:36 DeliMeal

Italian Quick & Easy

Hamburgers German

Light & Lovely Exotic

Breakfast Asian

main.dart

Ln 19, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

STYLING AND THEMES

File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category.dart dummy_data.dart

OPEN EDITORS lib > categories_screen.dart > CategoriesScreen > build

main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android build ios lib models category.dart categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE DEPENDENCIES

```
1 import 'package:flutter/material.dart';
2
3 import './dummy_data.dart';
4 import './category_item.dart';
5
6 class CategoriesScreen extends StatelessWidget {
7     @override
8     Widget build(BuildContext context) {
9         return Scaffold(
10             appBar: AppBar(
11                 title: const Text('DeliMeal'),
12             ), // AppBar
13             body: GridView(
14                 padding: const EdgeInsets.all(25),
15                 children: DUMMY_CATEGORIES
16                     .map(
17                         (catData) => CategoryItem(
18                             catData.title,
19                             catData.color,
20                         ), // CategoryItem
21                     )
22                     .toList(),

```

8:40 DeliMeal

Italian Quick & Easy

Hamburgers German

Light & Lovely Exotic

Breakfast Asian

French Summer

categories_screen.dart

Ln 15, Col 1 (44 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

pubspec.yaml - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- main.dart lib
- categories_screen.dart lib
- pubspec.yaml
- Raleway-Black.ttf assets\fonts
- category_item.dart lib
- category.dart lib\models
- dummy_data.dart lib

MEALSAPP_07

- .idea
- android
- assets\fonts
 - Raleway-Black.ttf
 - Raleway-Bold.ttf
 - Raleway-Regular.ttf
 - RobotoCondensed-Bold.ttf
 - RobotoCondensed-Italic.ttf
 - RobotoCondensed-Light.ttf
 - RobotoCondensed-Regular.ttf
- build
- ios
- lib
- test
- web
- .gitignore
- .metadata
- .packages
- analysis_options.yaml
- mealsapp_07.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE

DEPENDENCIES

main.dart categories_screen.dart pubspec.yaml ↻ _item.dart category.dart dummy_data.dart

example:

fonts:

family: Raleway

fonts:

asset: assets/fonts/Raleway-Regular.ttf

asset: assets/fonts/Raleway-Bold.ttf

weight: 700

asset: assets/fonts/Raleway-Black.ttf

weight: 900

family: RobotoCondensed

fonts:

asset: assets/fonts/RobotoCondensed-Regular.ttf

asset: assets/fonts/RobotoCondensed-Bold.ttf

weight: 700

asset: assets/fonts/RobotoCondensed-Light.ttf

weight: 300

asset: assets/fonts/RobotoCondensed-Italic.ttf

style: italic

#

For details regarding fonts from package dependencies,

see <https://flutter.dev/custom-fonts/#from-packages>

pubspec.yaml

Ln 91, Col 1 (587 selected) Spaces: 2 UTF-8 CRLF YAML Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) ✓ Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec.yaml lib main.dart > MyApp > build category_item.dart category.dart dummy_data.dart

OPEN EDITORS

main.dart lib categories_screen.dart lib pubspec.yaml Raleway-Black.ttf assets\fonts category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .idea android assets\fonts Raleway-Black.ttf Raleway-Bold.ttf Raleway-Regular.ttf RobotoCondensed-Bold.ttf RobotoCondensed-Italic.ttf RobotoCondensed-Light.ttf RobotoCondensed-Regular.ttf build ios lib models categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages

Run | Debug | Profile

```
1 import 'package:flutter/material.dart';
2
3 import 'categories_screen.dart';
4
5 void main() => runApp(MyApp());
6
7 class MyApp extends StatelessWidget {
8     @override
9     Widget build(BuildContext context) {
10         return MaterialApp(
11             title: 'DeliMeals',
12             theme: ThemeData(
13                 primarySwatch: Colors.pink,
14                 accentColor: Colors.amber,
15                 canvasColor: Color.fromRGBO(255, 254, 229, 1),
16                 fontFamily: 'Raleway',
17                 textTheme: ThemeData.light().textTheme.copyWith(
18                     bodyText1: TextStyle(
19                         color: Color.fromRGBO(20, 51, 51, 1),
20                     ), // TextStyle
21                     bodyText2: TextStyle(
```

main.dart

Ln 25, Col 28 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec.yaml lib > main.dart > MyApp > build item.dart category.dart dummy_data.dart

OPEN EDITORS

main.dart lib categories_screen.dart lib pubspec.yaml Raleway-Black.ttf assets\fonts category_item.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .idea android assets\fonts Raleway-Black.ttf Raleway-Bold.ttf Raleway-Regular.ttf RobotoCondensed-Bold.ttf RobotoCondensed-Italic.ttf RobotoCondensed-Light.ttf RobotoCondensed-Regular.ttf build ios lib models categories_screen.dart category_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages

OUTLINE

DEPENDENCIES

main.dart

```
14     accentColor: Colors.amber,
15     canvasColor: Color.fromRGBO(255, 254, 229, 1),
16     fontFamily: 'Raleway',
17     textTheme: ThemeData.light().textTheme.copyWith(
18         bodyText1: TextStyle(
19             color: Color.fromRGBO(20, 51, 51, 1),
20         ), // TextStyle
21         bodyText2: TextStyle(
22             color: Color.fromRGBO(20, 51, 51, 1),
23         ), // TextStyle
24         headline1: TextStyle(
25             fontSize: 20,
26             fontFamily: 'RobotoCondensed',
27             fontWeight: FontWeight.bold,
28         ), // TextStyle
29     ), // ThemeData
30     home: CategoriesScreen(),
31 ); // MaterialApp
32 }
33 }
34 }
```

Ln 25, Col 28 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



NAVIGATING TO A NEW PAGE

File Edit Selection View Go Run Terminal Help

category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- main.dart
- categories_screen.dart
- pubspec.yaml
- category_item.dart lib
- category_meals_screen.dart lib
- category.dart lib\models
- dummy_data.dart lib

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
 - .gitignore
 - .metadata
 - .packages
 - analysis_options.yaml
 - mealsapp_07.iml
 - pubspec.lock
 - pubspec.yaml

OUTLINE

TIMELINE

DEPENDENCIES

category_meals_screen.dart

category_meals_screen.dart > CategoryMealsScreen > build

```
1 import 'package:flutter/material.dart';
2
3 class CategoryMealsScreen extends StatelessWidget {
4     @override
5     Widget build(BuildContext context) {
6         return Scaffold(
7             appBar: AppBar(
8                 title: Text('The Recipes'),
9             ), // AppBar
10            body: Center(
11                child: Text('The Recipes For The Category'),
12            ), // Center
13        ); // Scaffold
14    }
15 }
16 }
```

category_meals_screen.dart

Ln 13, Col 7 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category_meals_screen.dart category.dart dummy_data.dart

OPEN EDITORS lib > category_item.dart > CategoryItem > build

main.dart lib categories_screen.dart lib pubspec.yaml

X category_item.dart lib category_meals_screen.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml mealsapp_07.iml pubspec.lock pubspec.yaml

OUTLINE

TIMELINE

DEPENDENCIES

stable 0 △ 1 ① 1 Debug my code

category_item.dart

```
3 class CategoryItem extends StatelessWidget {  
4     final String title;  
5     final Color color;  
6  
7     CategoryItem(this.title, this.color);  
8  
9     @override  
10    Widget build(BuildContext context) {  
11        return Container(  
12            padding: EdgeInsets.all(15),  
13            child: Center(  
14                decoration: BoxDecoration(  
15                    gradient: LinearGradient(  
16                        colors: Colors.deepOrange.shade200.createColorGradient(  
17                            begin: Alignment.topLeft,  
18                            end: Alignment.bottomRight,  
19                        ),  
20                        radius: BorderRadius.circular(15),  
21                    ),  
22                ),  
23            ),  
24        );  
}
```

Ln 11, Col 21 (9 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category_meals_screen.dart category.dart dummy_data.dart

OPEN EDITORS lib > category_item.dart > CategoryItem > build

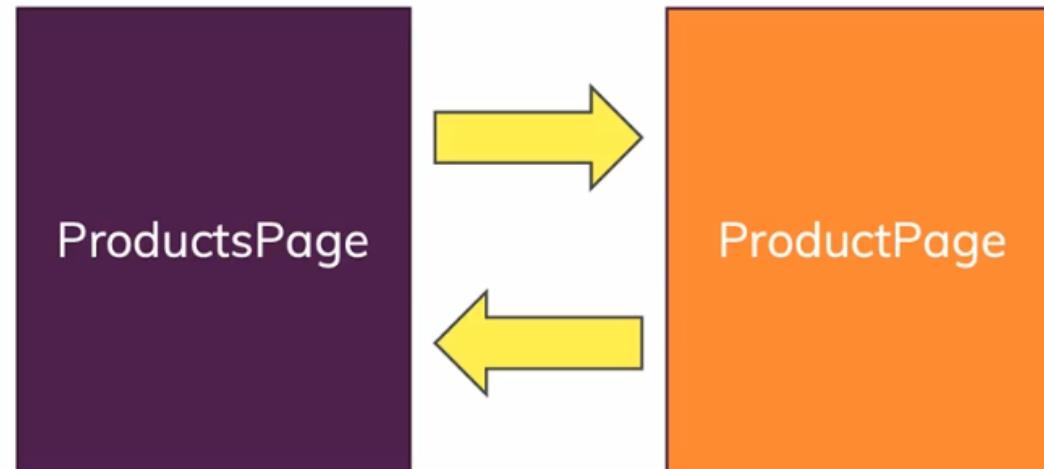
CategoryItem(this.title, this.color);

void selectCategory(BuildContext ctx) {
 Navigator.of(ctx).push(
 MaterialPageRoute(
 builder: (_) {
 return CategoryMealsScreen();
 },
), // MaterialPageRoute
);
}
@override
Widget build(BuildContext context) {
 return InkWell(
 onTap: () => selectCategory(context),
 splashColor: Theme.of(context).primaryColor,
 borderRadius: BorderRadius.circular(15),
 child: Container(
 padding: const EdgeInsets.all(15),
 child: Text(title),
 decoration: BoxDecoration(
 color: color,
 border: Border.all(
 color: Colors.white,
 width: 2,
),
 shape: BoxShape.rectangle,
 borderRadius: BorderRadius.circular(15),
),
),
);
}

category_item.dart

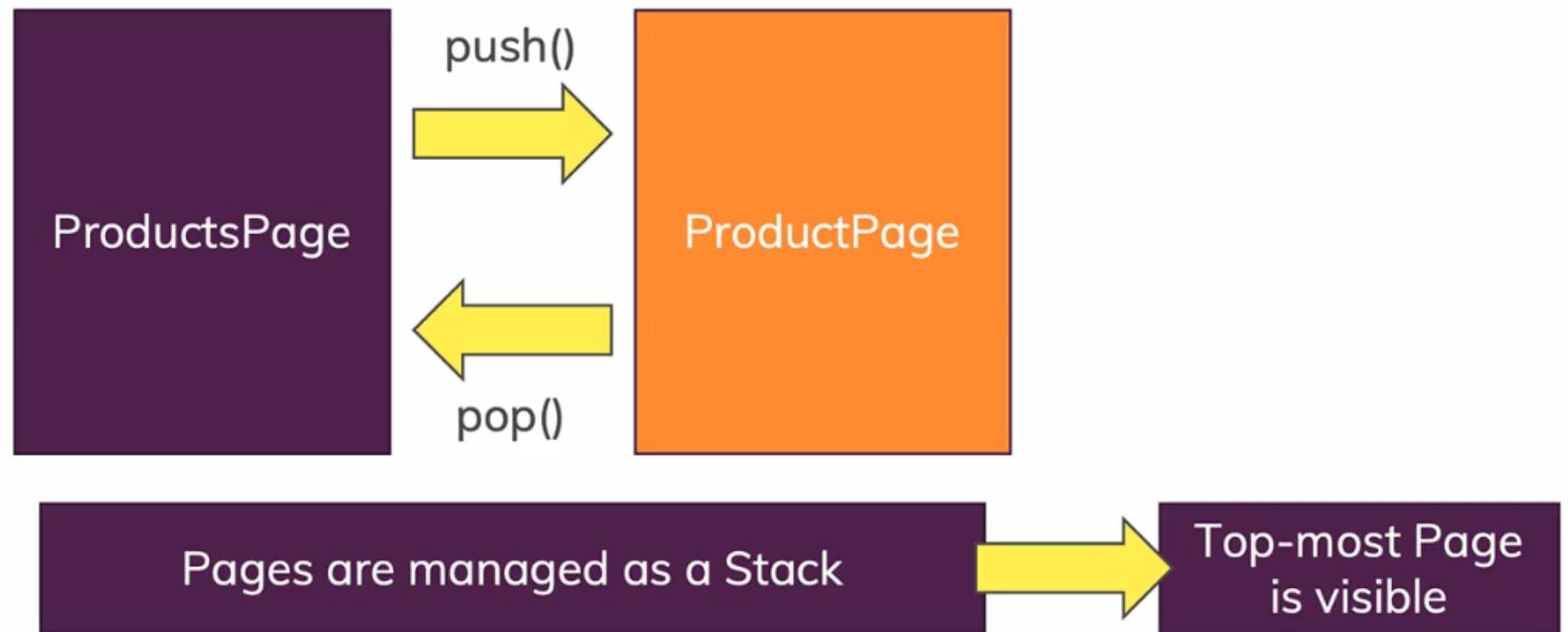
st able ↻ ⌂ 0 ⌂ 1 ⌂ 1 ⌂ 1 Debug my code Ln 27, Col 1 (419 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

Navigation in Flutter Apps



Pages are managed as a Stack

Navigation in Flutter Apps





PASSING DATA THROUGH THE CONSTRUCTOR

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category_meals_screen.dart X category.dart dummy_data.dart

OPEN EDITORS lib > category_meals_screen.dart > CategoryMealsScreen

main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category_meals_screen.dart lib X category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml mealsapp_07.iml pubspec.lock pubspec.yaml

category_meals_screen.dart

```
1 import 'package:flutter/material.dart';
2
3 class CategoryMealsScreen extends StatelessWidget {
4   final String categoryId;
5   final String categoryTitle;
6
7   CategoryMealsScreen(this.categoryId, this.categoryTitle);
8
9   @override
10  Widget build(BuildContext context) {
11    return Scaffold(
12      appBar: AppBar(
13        title: Text(categoryTitle),
14      ), // AppBar
15      body: Center(
16        child: Text('The Recipes For The Category'),
17      ), // Center
18    ); // Scaffold
19  }
20}
21
```

category_meal_screen.dart

Ln 9, Col 1 (124 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category_meals_screen.dart category.dart dummy_data.dart

OPEN EDITORS main.dart lib categories_screen.dart lib pubspec.yaml

category_item.dart lib category_meals_screen.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml mealsapp_07.iml pubspec.lock pubspec.yaml

OUTLINE

TIMELINE

DEPENDENCIES

stable Debug my code Ln 17, Col 1 (50 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

```
import 'category_meals_screen.dart';

class CategoryItem extends StatelessWidget {
    final String id;
    final String title;
    final Color color;

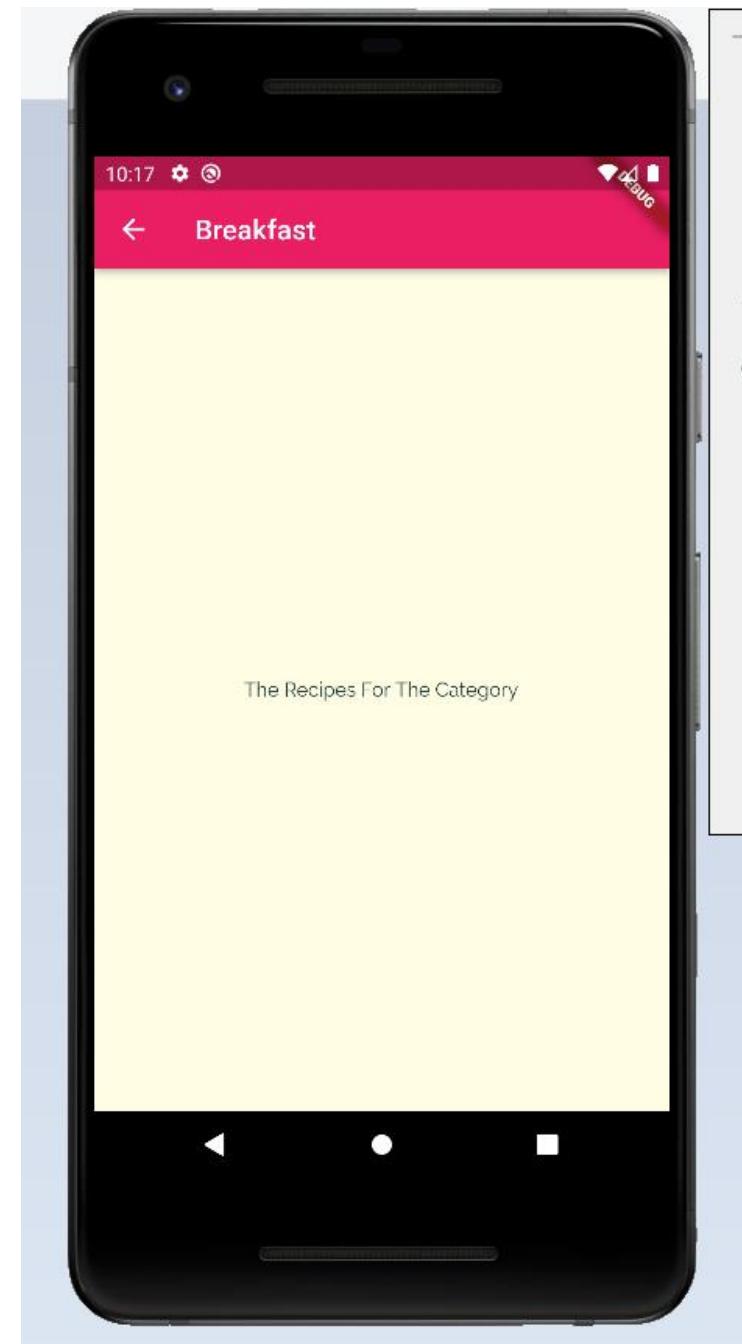
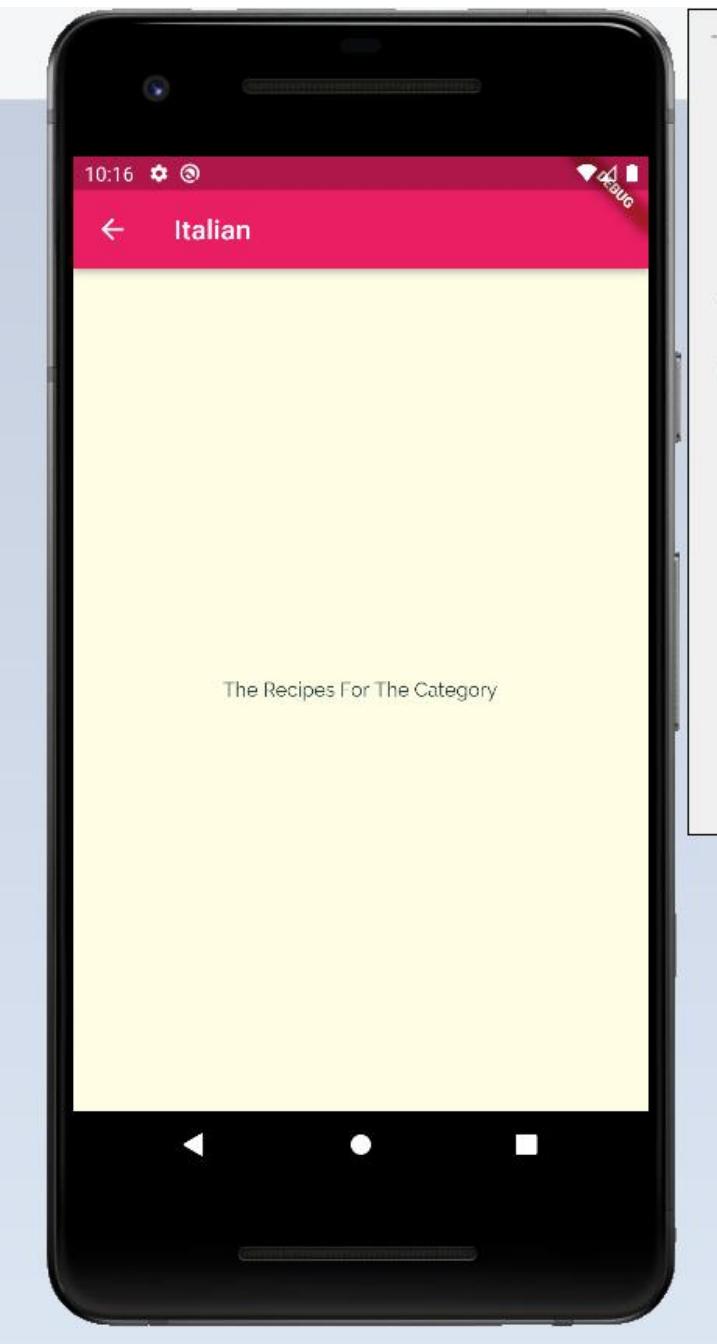
    CategoryItem(this.id, this.title, this.color);

    void selectCategory(BuildContext ctx) {
        Navigator.of(ctx).push(
            MaterialPageRoute(
                builder: (_) {
                    return CategoryMealsScreen(id, title);
                },
            ),
        );
    }

    @override
    Widget build(BuildContext context) {
        return InkWell(

```

category_item.dart



USING NAMED ROUTES AND PASSING DATA WITH NAMED ROUTES

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart pubspec. category_meals_screen.dart category.dart dummy_data.dart

OPEN EDITORS lib > main.dart > MyApp > build

main.dart lib categories_screen.dart lib pubspec.yaml category_item.dart lib category_meals_screen.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .dart_tool .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml mealsapp_07.iml pubspec.lock pubspec.yaml

OUTLINE

TIMELINE

DEPENDENCIES

stable 0 △ 1 ① 2 Debug my code Ln 35, Col 1 (87 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

```
fontFamily: 'Raleway',
textTheme: ThemeData.light().textTheme.copyWith(
    bodyText1: TextStyle(
        color: Color.fromRGBO(20, 51, 51, 1),
    ), // TextStyle
    bodyText2: TextStyle(
        color: Color.fromRGBO(20, 51, 51, 1),
    ), // TextStyle
    headline1: TextStyle(
        fontSize: 20,
        fontFamily: 'RobotoCondensed',
        fontWeight: FontWeight.bold,
    )), // TextStyle
), // ThemeData
home: CategoriesScreen(),
routes: {
    '/category-meals': (ctx) => CategoryMealsScreen(),
},
); // MaterialApp
}
```

main.dart

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- main.dart
- categories_screen.dart
- category.dart
- category_item.dart
- category_meals_screen.dart
- category.dart lib\models
- dummy_data.dart

MEALSAPP_07

- .idea
- assets
- build
- ios
- lib
 - models
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart
 - dummy_data.dart
 - main.dart
- test
- web
- .gitignore
- .metadata
- .packages
- analysis_options.yaml
- mealsapp_07.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE

TIMELINE

DEPENDENCIES

category_item.dart

```
1 import 'package:flutter/material.dart';
2
3 class CategoryItem extends StatelessWidget {
4   final String id;
5   final String title;
6   final Color color;
7
8   CategoryItem(this.id, this.title, this.color);
9
10 void selectCategory(BuildContext ctx) {
11   Navigator.of(ctx).pushNamed(
12     '/category-meals',
13     arguments: {
14       'id': id,
15       'title': title,
16     },
17   );
18 }
19
20 @override
21 Widget build(BuildContext context) {
22   return InkWell(
23 }
```

Ln 19, Col 1 (309 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart categories_screen.dart category_meals_screen.dart category.dart dummy_data.dart

OPEN EDITORS main.dart lib categories_screen.dart lib category_item.dart lib category_meals_screen.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

OUTLINE TIMELINE DEPENDENCIES

category_meals_screen.dart > CategoryMealsScreen > build

```
1 import 'package:flutter/material.dart';
2
3 class CategoryMealsScreen extends StatelessWidget {
4     // final String categoryId;
5     // final String categoryTitle;
6
7     // CategoryMealsScreen(this.categoryId, this.categoryTitle);
8
9     @override
10    Widget build(BuildContext context) {
11        final routeArgs =
12            ModalRoute.of(context).settings.arguments as Map<String, String>;
13        final categoryTitle = routeArgs['title'];
14        final categoryId = routeArgs['id'];
15
16        return Scaffold(
17            appBar: AppBar(
18                title: Text(categoryTitle),
19            ), // AppBar
20            body: Center(
21                child: Text('The Recipes For The Category'),
22            ), // Center
23        );
24    }
25}
```

Ln 15, Col 1 (186 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

category_meal_screen.dart



DIVING DEEPER INTO NAMED ROUTES

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** category_meals_screen.dart - mealsapp_07 - Visual Studio Code.
- Left Sidebar (Explorer):**
 - OPEN EDITORS: 1 UNSAVED
 - MEALSAPP_07
 - .idea
 - assets
 - build
 - ios
 - lib
 - models
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
 - .gitignore
 - .metadata
 - .packages
 - analysis_options.yaml
 - mealsapp_07.iml
 - pubspec.lock
 - pubspec.yaml
 - README.md
 - OUTLINE
 - TIMELINE
 - DEPENDENCIES
- Central Area:** A code editor showing the `category_meals_screen.dart` file. The file contains Dart code for a StatelessWidget named `CategoryMealsScreen`. It includes imports for `package:flutter/material.dart`, defines a static const route name, and overrides the `Widget build(BuildContext context)` method to return a `Scaffold` with an `AppBar` and a `Center` body containing a text message.

```
import 'package:flutter/material.dart';

class CategoryMealsScreen extends StatelessWidget {
  static const routeName = '/category-meals';
  // final String categoryId;
  // final String categoryTitle;

  // CategoryMealsScreen(this.categoryId, this.categoryTitle);

  @override
  Widget build(BuildContext context) {
    final routeArgs =
        ModalRoute.of(context).settings.arguments as Map<String, String>;
    final categoryTitle = routeArgs['title'];
    final categoryId = routeArgs['id'];

    return Scaffold(
      appBar: AppBar(
        title: Text(categoryTitle),
      ), // AppBar
      body: Center(
        child: Text('The Recipes For The Category'),
      ),
    );
  }
}
```
- Bottom Status Bar:** Ln 5, Col 1 (47 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart X categories_screen.dart category.dart open.dart category.dart dummy_data.dart

OPEN EDITORS 1 UNSAVED lib > main.dart > MyApp > build

main.dart lib categories_screen.dart lib category_item.dart lib category_meals_screen.dart lib category.dart lib\models dummy_data.dart lib

MEALSAPP_07 .idea android assets build ios lib models categories_screen.dart category_item.dart category_meals_screen.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.yaml 1 mealsapp_07.iml pubspec.lock pubspec.yaml README.md

bodyText2: TextStyle(
 color: Color.fromRGBO(20, 51, 51, 1),
) // TextStyle
headline1: TextStyle(
 fontSize: 20,
 fontFamily: 'RobotoCondensed',
 fontWeight: FontWeight.bold,
) // TextStyle
, // ThemeData
..... // home: CategoriesScreen(),
initialRoute: '/', // default is '/'
routes: {
 '/': (ctx) => CategoriesScreen(),
 CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(),
},
); // MaterialApp
}
}
}

main.dart

Ln 37, Col 1 (222 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS 1 UNSAVED

- main.dart
- categories_screen.dart
- category.dart
- open.dart
- category_meals_screen.dart
- category.dart lib\models
- dummy_data.dart

MEALSAPP_07

- .idea
- android
- assets
- build
- ios
- lib
 - models
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart
 - dummy_data.dart
 - main.dart
- test
- web
- .gitignore
- .metadata
- .packages
- analysis_options.yaml
- mealsapp_07.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE

TIMELINE

DEPENDENCIES

category_item.dart > CategoryItem > selectCategory

```
1 import 'package:flutter/material.dart';
2 import 'package:mealsapp_07/category_meals_screen.dart';
3
4 class CategoryItem extends StatelessWidget {
5   final String id;
6   final String title;
7   final Color color;
8
9   CategoryItem(this.id, this.title, this.color);
10
11 void selectCategory(BuildContext ctx) {
12   Navigator.of(ctx).pushNamed(
13     CategoryMealsScreen.routeName,
14     arguments: {
15       'id': id,
16       'title': title,
17     },
18   );
19 }
20
21 @override
22 Widget build(BuildContext context) {
```

category_item.dart

Ln 14, Col 1 (38 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

ADDING A MEAL MODEL AND DATA

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** meal.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS: meal.dart, category_item.dart, category_me
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios, lib (selected), models (selected), test, web, .gitignore, .metadata, .packages, analysis_options.yaml, mealsapp_07.iml, pubspec.lock, pubspec.yaml, README.md
 - OUTLINE, TIMELINE, DEPENDENCIES
- Central Area:** The meal.dart file is open in the editor, showing code for Complexity and Affordability enums, and the Meal class. The file path is lib > models > meal.dart > Affordability.
- Bottom Status Bar:** Ln 13, Col 2, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier, and icons for stable, refresh, and debug.
- Bottom Right:** A yellow watermark "models\meal.dart"

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** meal.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS: meal.dart (highlighted), category_item.dart, category_me...
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios, lib (highlighted), models (highlighted), category.dart, meal.dart (highlighted), categories_screen.dart, category_item.dart, category_meals_screen.dart, dummy_data.dart, main.dart.
 - test, web, .gitignore, .metadata, .packages, analysis_options.yaml (1), mealsapp_07.iml, pubspec.lock, pubspec.yaml, README.md.
- Central Area:** The meal.dart file is open in the editor. The code defines a Meal class with properties for categories, title, imageUrl, ingredients, steps, duration, complexity, affordability, and various dietary restrictions. A const constructor is also defined.
- Bottom Status Bar:** Ln 13, Col 2, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.
- Bottom Icons:** stable, Debug my code, and other standard VS Code icons.

models\meal.dart

```
final List<String> categories;
final String title;
final String imageUrl;
final List<String> ingredients;
final List<String> steps;
final int duration;
final Complexity complexity;
final Affordability affordability;
final bool isGlutenFree;
final bool isLactoseFree;
final bool isVegan;
final bool isVegetarian;

const Meal({
    @required this.id,
    @required this.categories,
    @required this.title,
    @required this.imageUrl,
    @required this.ingredients,
    @required this.steps,
    @required this.duration,
    @required this.complexity,
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** meal.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS: meal.dart (highlighted), category_item.dart, category_meal.dart
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios, lib (highlighted), models (highlighted), meal.dart (highlighted), categories_screen.dart, category_item.dart, category_meals_screen.dart, dummy_data.dart, main.dart
 - test, web, .gitignore, .metadata, .packages, analysis_options.yaml (1), mealsapp_07.iml, pubspec.lock, pubspec.yaml, README.md
- Central Area:** The meal.dart file is open in the editor.

```
final bool isGlutenFree;
final bool isLactoseFree;
final bool isVegan;
final bool isVegetarian;

const Meal({
    @required this.id,
    @required this.categories,
    @required this.title,
    @required this.imageUrl,
    @required this.ingredients,
    @required this.steps,
    @required this.duration,
    @required this.complexity,
    @required this.affordability,
    @required this.isGlutenFree,
    @required this.isLactoseFree,
    @required this.isVegan,
    @required this.isVegetarian,
});
}
```
- Bottom Status Bar:** Ln 13, Col 2, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier, etc.
- Bottom Right:** A yellow watermark "models\meal.dart"

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** dummy_data.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS: meal.dart, dummy_data.dart (highlighted), category_item.dart, category_meals_screen.dart (8).
 - MEALSAPP_07 folder:
 - .dart_tool
 - .idea
 - android
 - assets
 - build
 - ios
 - lib
 - models
 - category.dart
 - meal.dart
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart (8)
 - main.dart
 - test
 - web
 - .gitignore
 - .metadata
 - .packages
 - analysis_options.yaml (1)
 - mealsapp_07.iml
 - pubspec.lock
 - pubspec.yaml
 - README.md
 - OUTLINE, TIMELINE, DEPENDENCIES.
- Central Area:** The code editor displays the `dummy_data.dart` file under the `DUMMY_MEALS` library. The code defines a constant `DUMMY_CATEGORIES` containing three `Category` objects with titles 'Italian', 'Quick & Easy', and 'Hamburgers' and corresponding colors.
- Bottom Status Bar:** Ln 391, Col 15, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.
- Bottom Icons:** stable, 8△1①2, Debug my code, Prettier, etc.

dummy_data.dart

```
1 import 'package:flutter/material.dart';
2
3 import './models/category.dart';
4 import './models/meal.dart';
5
6 const DUMMY_CATEGORIES = const [
7     Category(
8         id: 'c1',
9         title: 'Italian',
10        color: Colors.purple,
11    ),
12    Category(
13        id: 'c2',
14        title: 'Quick & Easy',
15        color: Colors.red,
16    ),
17    Category(
18        id: 'c3',
19        title: 'Hamburgers',
20        color: Colors.orange,
21    ),
22    Category(
```

File Edit Selection View Go Run Terminal Help

dummy_data.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS 1 UNSAVED

- meal.dart lib\models
- dummy_data.dart lib
- category_item.dart lib
- category_meals_screen.dart 8

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - categories_screen.dart
 - category_item.dart
 - category_meals_screen.dart 8
 - dummy_data.dart
 - main.dart
- test
- web
- .gitignore
- .metadata
- .packages
- analysis_options.yaml 1
- mealsapp_07.iml
- pubspec.lock
- pubspec.yaml
- README.md

OUTLINE

TIMELINE

DEPENDENCIES

meal.dart dummy_data.dart category_item.dart part 8

lib > dummy_data.dart > [DUMMY_MEALS]

```
52     Category(      id: 'c10',      title: 'Summer',      color: Colors.teal,    ),    ];  
58  
59 const DUMMY_MEALS = const [  
60   Meal(      id: 'm1',      categories: [        'c1',        'c2',      ],      title: 'Spaghetti with Tomato Sauce',      affordability: Affordability.Affordable,      complexity: Complexity.Simple,      imageUrl:        'https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Spaghetti_Bolognese_640px.jpg',      duration: 20,      ingredients: [        '4 Tomatoes',        '1 Tablespoon of Olive Oil'      ]    )  ];
```

dummy_data.dart

stable ⌂ 8 △ 1 ⓘ 2 ⌂ Debug my code

Ln 391, Col 15 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) ⌂ Prettier ⌂

SELECTING MEALS FOR A CHOSEN CATEGORY

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

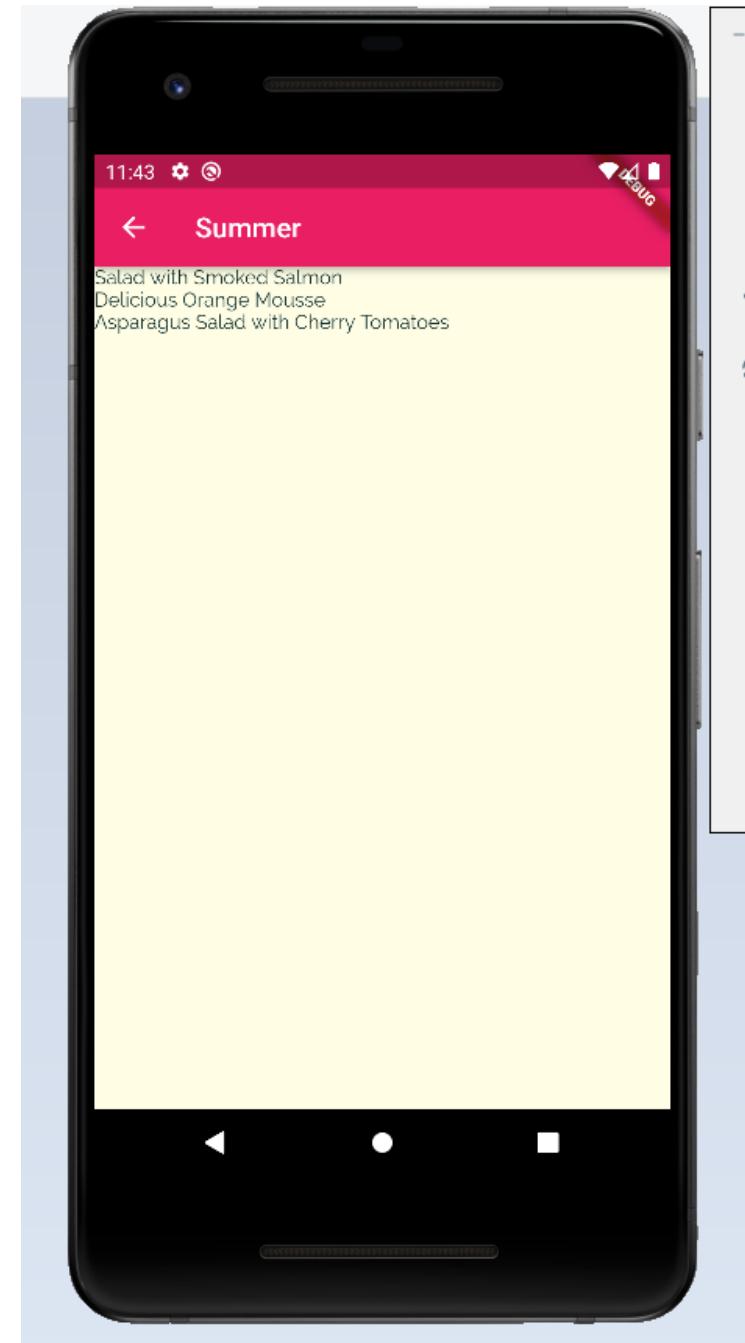
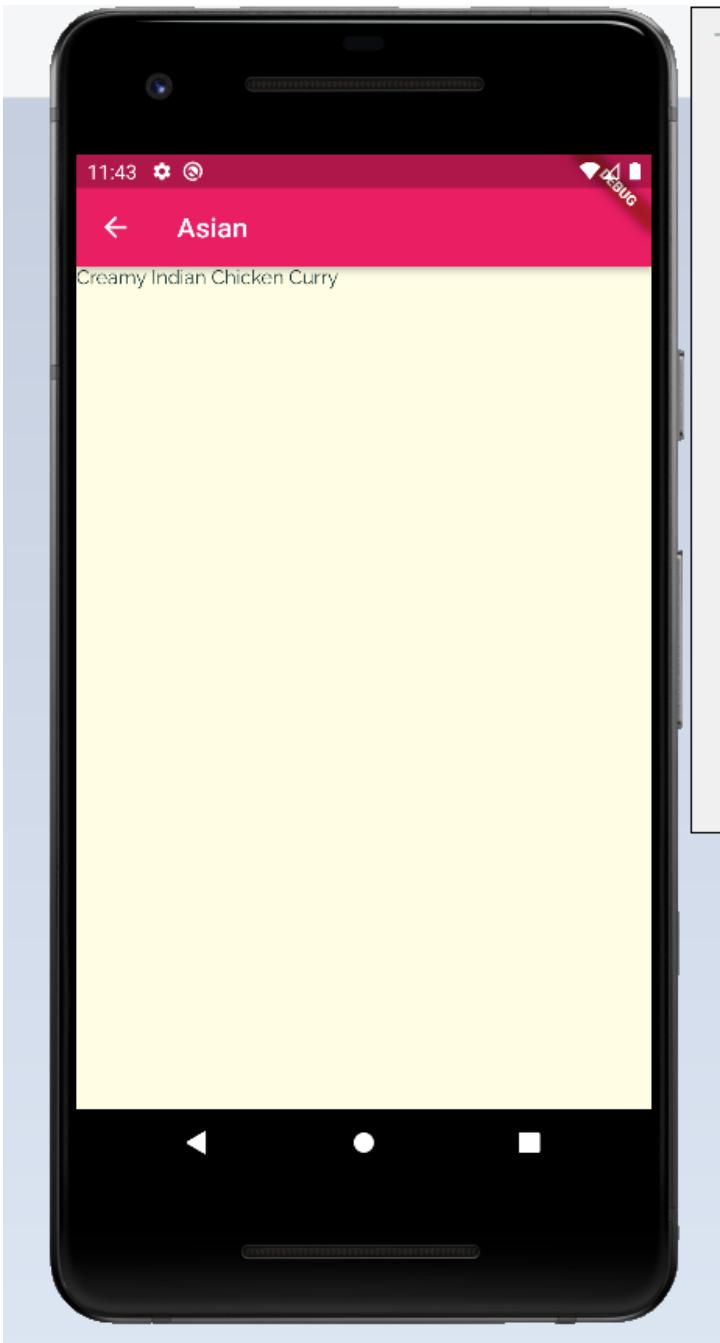
EXPLORER ... meal.dart dummy_data.dart category_item.dart art main.dart

lib > category_meals_screen.dart > CategoryMealsScreen > build

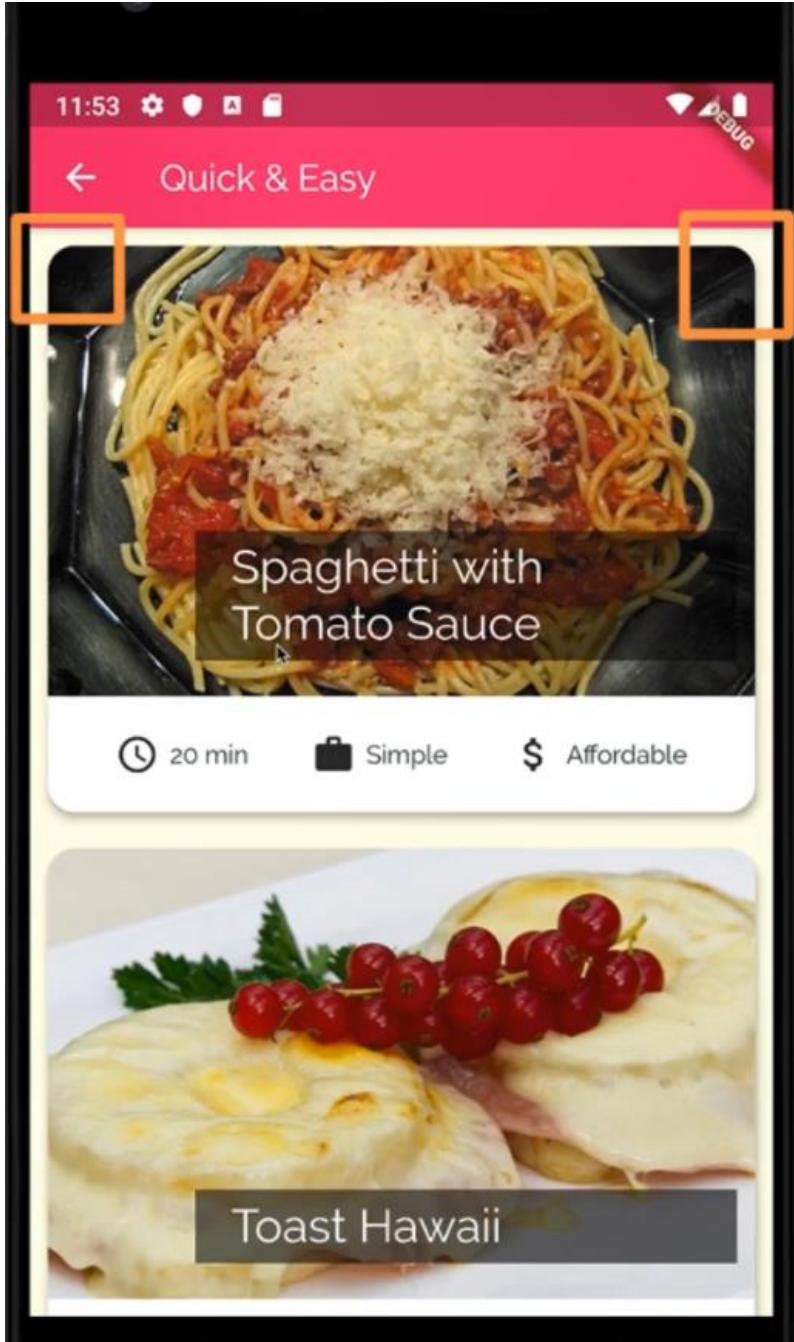
```
13 Widget build(BuildContext context) {  
14     final routeArgs =  
15         ModalRoute.of(context).settings.arguments as Map<String, String>;  
16     final categoryTitle = routeArgs['title'];  
17     final categoryId = routeArgs['id'];  
18     final categoryMeals = DUMMY_MEALS.where((meal) {  
19         return meal.categories.contains(categoryId);  
20     }).toList();  
21  
22     return Scaffold(  
23         appBar: AppBar(  
24             title: Text(categoryTitle),  
25         ), // AppBar  
26         body: ListView.builder(  
27             itemBuilder: (ctx, index) {  
28                 return Text(categoryMeals[index].title);  
29             },  
30             itemCount: categoryMeals.length,  
31         ), // ListView.builder  
32     ); // Scaffold  
33 }  
34 }
```

category_meal_screen.dart

Ln 24, Col 36 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



DISPLAYING RECIPE ITEMS USING NETWORK IMAGES AND FINISHING THE MEAL LIST ITEM



This will be the end of result

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** meal_item.dart - mealsapp_07 - Visual Studio Code
- Explorer View (Left):** Shows the project structure under MEALSAPP_07, including .dart_tool, .idea, android, assets, build, ios, lib (containing models and screens), models (containing category.dart and meal.dart), screens (containing categories_screen.dart, category_meals_screen.dart, and meal_detail_screen.dart), widgets (containing category_item.dart, meal_item.dart, dummy_data.dart, and main.dart), test, OUTLINE, TIMELINE, and DEPENDENCIES.
- Editor View (Center):** The meal_item.dart file is open in the editor. The code defines a MealItem class that extends StatelessWidget. It has final fields for id, title, imageUrl, duration, complexity, and affordability. The constructor MealItem takes required parameters for all these fields.
- Status Bar (Bottom):** Ln 55, Col 14, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.
- Bottom Right:** A yellow watermark-like text "widgets\meal_item.dart".

File Edit Selection View Go Run Terminal Help meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP.07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- test

OUTLINE

TIMELINE

DEPENDENCIES

meal.dart dummy_data.dart category_item.dart meal_item.dart category.dart meal_detail_screen.dart meal_detail_screen.dart

lib > widgets > meal_item.dart > MealItem > selectMeal

```
22
23     String get complexityText {
24         switch (complexity) {
25             case Complexity.Simple:
26                 return 'Simple';
27                 break;
28             case Complexity.Challenging:
29                 return 'Challenging';
30                 break;
31             case Complexity.Hard:
32                 return 'Hard';
33                 break;
34             default:
35                 return 'Unknown';
36         }
37     }
38
39     String get affordabilityText {
40         switch (affordability) {
41             case Affordability.Affordable:
42                 return 'Affordable';
43                 break;
44         }
45     }
46 }
```

Ln 55, Col 14 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

widgets\meal_item.dart

File Edit Selection View Go Run Terminal Help meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart dummy_data.dart category_item.dart II ⏪ ⏴ ⏵ ⏶ 🔍 meal_item.dart X category.dart meal_detail_screen.dart

OPEN EDITORS meal.dart lib\models main.dart lib dummy_data.dart lib category_item.dart lib\widgets category_meals_screen.dart lib... category.dart lib\models meal_item.dart lib\widgets meal_detail_screen.dart lib\scre... categories_screen.dart lib\scree...

MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

lib > widgets > meal_item.dart > MealItem > selectMeal

```
42     return 'Affordable';
43     break;
44 case Affordability.Pricey:
45     return 'Pricey';
46     break;
47 case Affordability.Luxurious:
48     return 'Expensive';
49     break;
50 default:
51     return 'Unknown';
52 }
53 }

55 void selectMeal(BuildContext context) {
56     Navigator.of(context).pushNamed(
57         MealDetailScreen.routeName,
58         arguments: id,
59     );
60 }
61
62 @override
63 Widget build(BuildContext context) {
64     return Scaffold(
```

wIDGETS\meal_item.dart

Ln 55, Col 14 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



EXPLORER

...

main.dart

dummy_data.dart

category_item.dart

lib

>

widgets > meal_item.dart

>

MealsItem > selectMeal

category.dart

<

meal_item.dart X

meal_detail_screen.dart

>

...

```
62 @override
63 Widget build(BuildContext context) {
64   return InkWell(
65     onTap: () => selectMeal(context),
66     child: Card(
67       shape: RoundedRectangleBorder(
68         borderRadius: BorderRadius.circular(15),
69       ), // RoundedRectangleBorder
70       elevation: 4,
71       margin: EdgeInsets.all(10),
72       child: Column(
73         children: <Widget>[
74           Stack(
75             children: <Widget>[
76               ClipRRect(
77                 borderRadius: BorderRadius.only(
78                   topLeft: Radius.circular(15),
79                   topRight: Radius.circular(15),
80                 ), // BorderRadius.only
81                 child: Image.network(
82                   imageUrl,
83                   height: 250,
```

widgets\meal_item.dart

File Edit Selection View Go Run Terminal Help meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib...
- category.dart lib\models
- meal_item.dart lib\widgets**
- meal_detail_screen.dart lib\scre...
- categories_screen.dart lib\scre...

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
- models
- category.dart
- meal.dart
- screens
- categories_screen.dart
- category_meals_screen.dart
- meal_detail_screen.dart
- widgets
- category_item.dart
- meal_item.dart**
- dummy_data.dart
- main.dart

test

OUTLINE

TIMELINE

DEPENDENCIES

lib > widgets > meal_item.dart > MealItem > selectMeal

```

81         child: Image.network(
82             imageUrl,
83             height: 250,
84             width: double.infinity,
85             fit: BoxFit.cover,
86         ), // Image.network
87     ), // ClipRRect
88     Positioned(
89         bottom: 20,
90         right: 10,
91         child: Container(
92             width: 300,
93             color: Colors.black54,
94             padding: EdgeInsets.symmetric(
95                 vertical: 5,
96                 horizontal: 20,
97             ), // EdgeInsets.symmetric
98             child: Text(
99                 title,
100                style: TextStyle(
101                    fontSize: 26,
102                    color: Colors.white,

```

widgets\meal_item.dart

stable Debug my code

Ln 55, Col 14 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- test

OUTLINE

TIMELINE

DEPENDENCIES

stable Debug my code

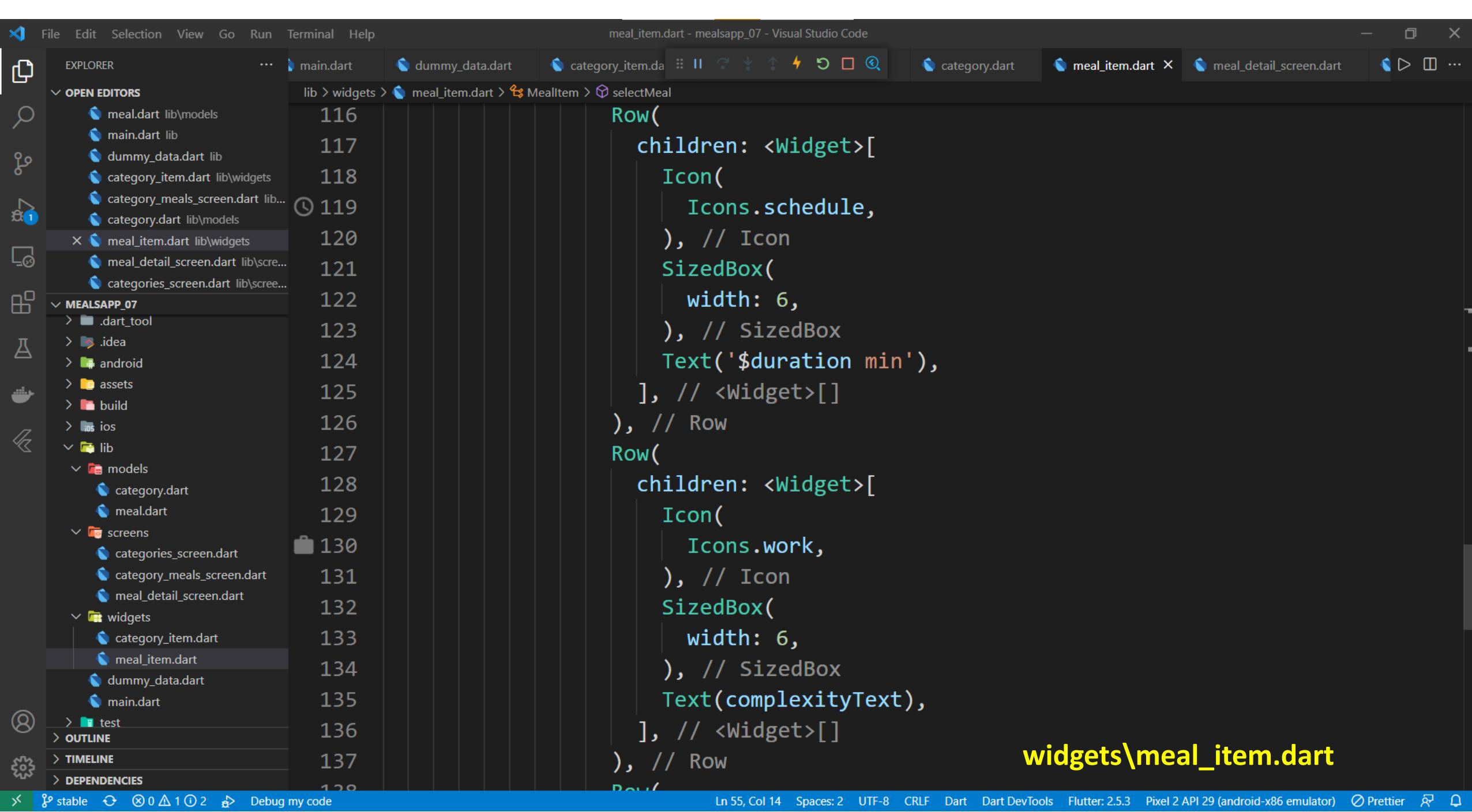
main.dart dummy_data.dart category_item.dart meal_item.dart category.dart meal_detail_screen.dart meal_detail_screen.dart

lib > widgets > meal_item.dart > MealItem > selectMeal

```
98     child: Text(
99       title,
100      style: TextStyle(
101        fontSize: 26,
102        color: Colors.white,
103      ), // TextStyle
104      softWrap: true,
105      overflow: TextOverflow.fade,
106      ), // Text
107      ), // Container
108      ) // Positioned
109      ], // <Widget>[]
110      ), // Stack
111      Padding(
112        padding: EdgeInsets.all(20),
113        child: Row(
114          mainAxisSize: MainAxisSize.spaceAround,
115          children: <Widget>[
116            Row(
117              children: <Widget>[
118                Icon(
119                  Icons.schedule,
```

wIDGETS\meal_item.dart

Ln 55, Col 14 Spaces: 2 UTRF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



File Edit Selection View Go Run Terminal Help

meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets**
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib**
- models
- category.dart
- meal.dart
- screens
- categories_screen.dart
- category_meals_screen.dart
- meal_detail_screen.dart
- widgets
- category_item.dart
- meal_item.dart**
- dummy_data.dart
- main.dart

OUTLINE

TIMELINE

DEPENDENCIES

stable Debug my code

main.dart dummy_data.dart category_item.dart meal_item.dart category.dart meal_detail_screen.dart

lib > widgets > meal_item.dart > MealItem > build

```
137     ), // Row
138     Row(
139         children: <Widget>[
140             Icon(
141                 Icons.attach_money,
142             ), // Icon
143             SizedBox(
144                 width: 6,
145             ), // SizedBox
146             Text(affordabilityText),
147         ], // <Widget>[]
148     ), // Row
149     ], // <Widget>[]
150 ), // Row
151     ), // Padding
152     ], // <Widget>[]
153     ), // Column
154     ), // Card
155 ); // InkWell
156 }
157 }
158 }
```

widgets\meal_item.dart

Ln 156, Col 4 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib... (selected)
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\scre...
- categories_screen.dart lib\scre...

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- test

OUTLINE

TIMELINE

DEPENDENCIES

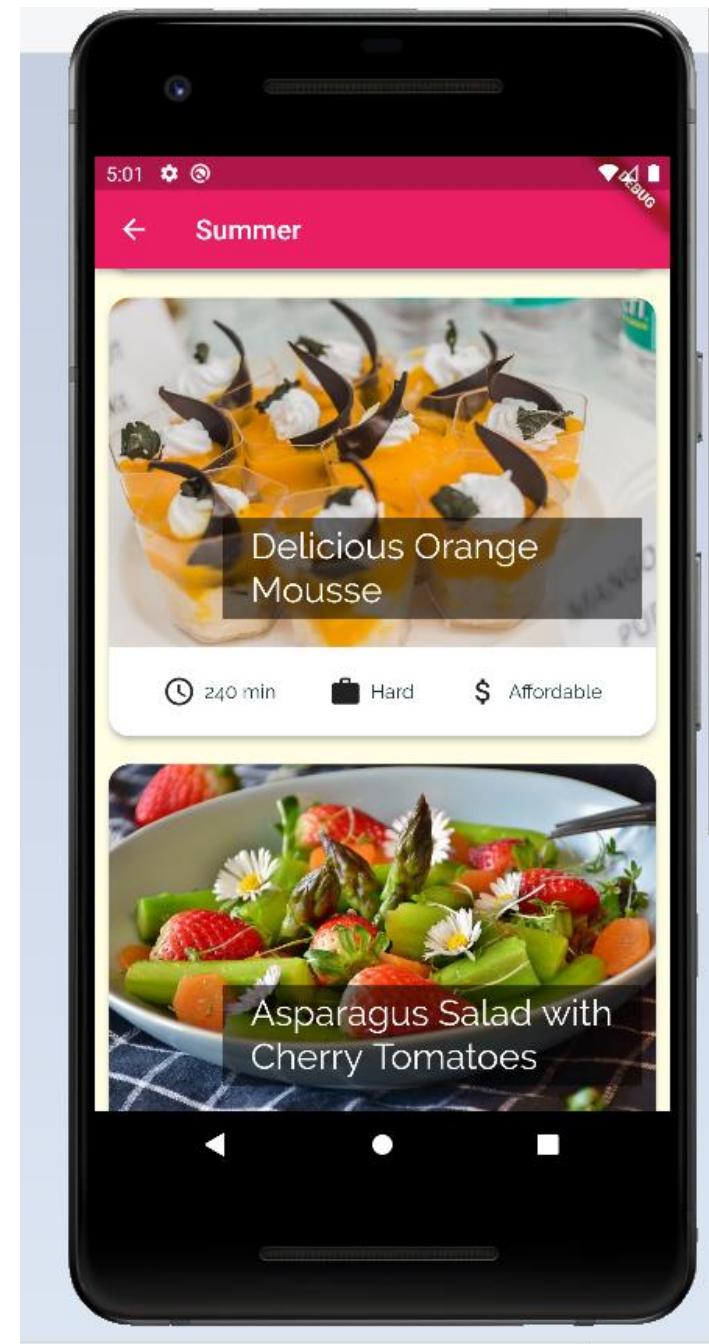
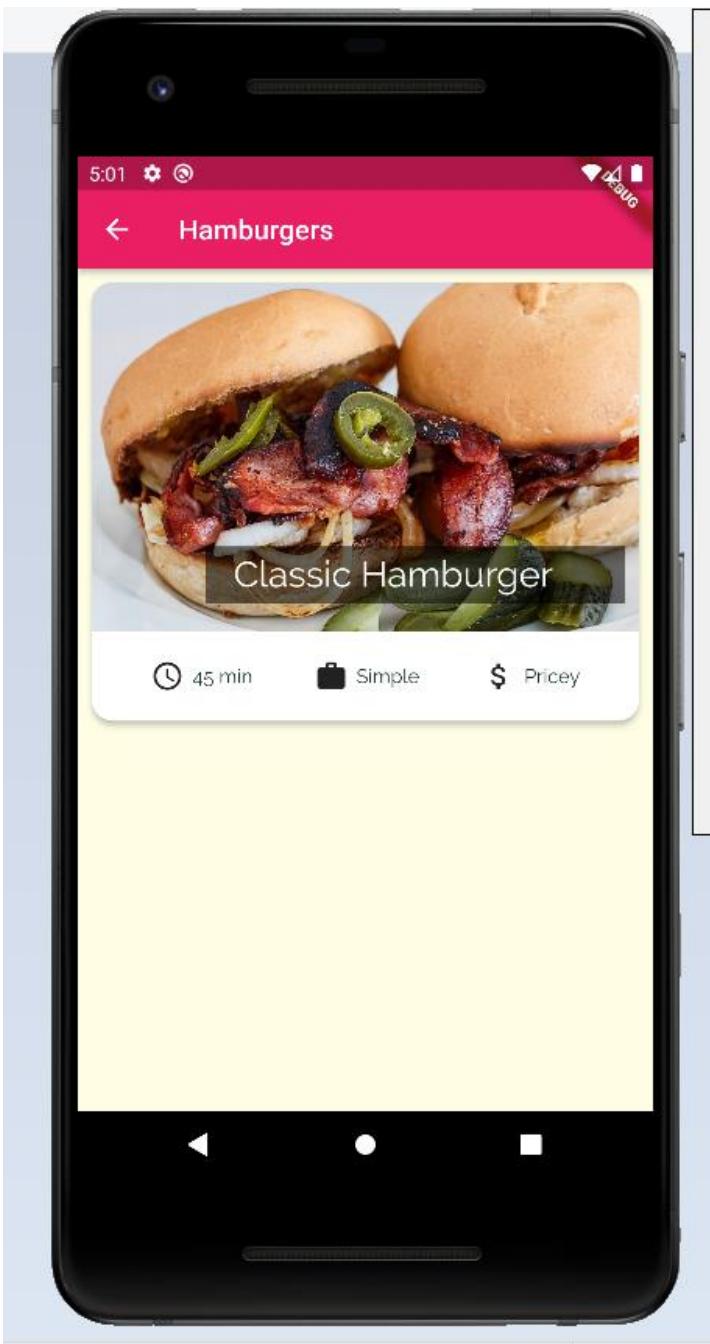
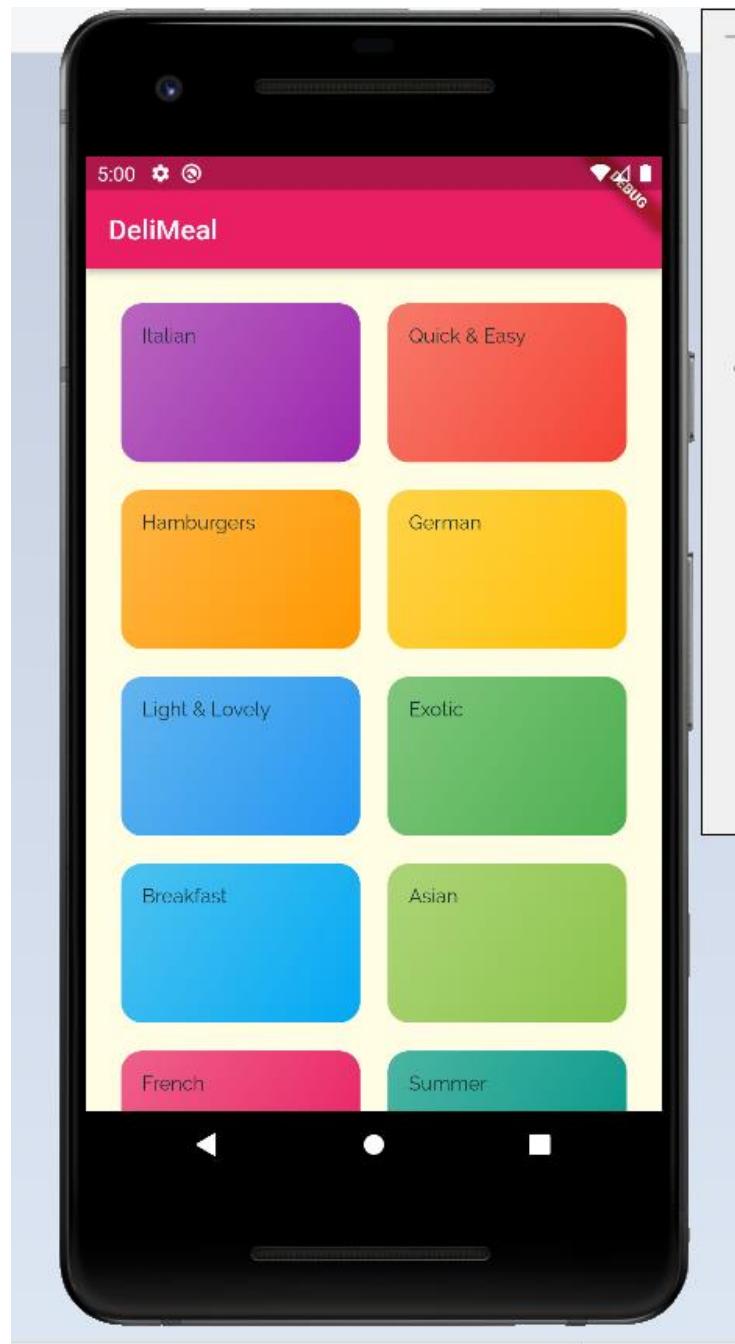
main.dart dummy_data.dart category_item.dart category.dart meal_item.dart meal_detail_screen.dart

lib > screens > category_meals_screen.dart > CategoryMealsScreen > build

```
21     }).toList();  
22  
23     return Scaffold(  
24         appBar: AppBar(  
25             title: Text(categoryTitle),  
26         ), // AppBar  
27         body: ListView.builder(  
28             itemBuilder: (ctx, index) {  
29                 return MealItem(  
30                     id: categoryMeals[index].id,  
31                     title: categoryMeals[index].title,  
32                     imageUrl: categoryMeals[index].imageUrl,  
33                     duration: categoryMeals[index].duration,  
34                     affordability: categoryMeals[index].affordability,  
35                     complexity: categoryMeals[index].complexity,  
36                 ); // MealItem  
37             },  
38             itemCount: categoryMeals.length,  
39         ), // ListView.builder  
40     ); // Scaffold  
41 }  
42 }
```

screens\category_meal_screen.dart

Ln 40, Col 1 (494 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



NAVIGATING TO THE MEAL DETAIL PAGE

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP_07

- .dart_tool
- .idea
- android
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- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart

TEST

OUTLINE

TIMELINE

DEPENDENCIES

stable Debug my code

main.dart dummy_data.dart category_item.dart meal_detail_screen.dart category.dart meal_item.dart meal_detail_screen.dart

lib > screens > meal_detail_screen.dart > MealDetailScreen > build

```
1 import 'package:flutter/material.dart';
2
3 import '../dummy_data.dart';
4
5 class MealDetailScreen extends StatelessWidget {
6     static const routeName = '/meal-detail';
7
8     @override
9     Widget build(BuildContext context) {
10         final mealId = ModalRoute.of(context).settings.arguments as String;
11         final selectedMeal = DUMMY_MEALS.firstWhere((meal) => meal.id == mealId);
12         return Scaffold(
13             appBar: AppBar(
14                 title: Text('${selectedMeal.title}'),
15             ), // AppBar
16             body: SingleChildScrollView(
17                 child: Column(
18                     children: <Widget>[
19                         Container(
20                             height: 300,
21                             width: double.infinity,
22                             child: Image.network(
```

screens\meal_detail_screen.dart

Ln 11, Col 31 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

A screenshot of the Visual Studio Code interface displaying Dart code for a meal detail screen. The code is part of the `meal_detail_screen.dart` file located in the `lib/screens` directory. The code uses the `DUMMY_MEALS` list to find a specific meal by ID and then builds a `Scaffold` with an `AppBar` and a `SingleChildScrollView` containing a `Column` with a `Container` holding a `Image.network` widget.

```
final selectedMeal = DUMMY_MEALS.firstWhere((meal) => meal.id == mealId);
return Scaffold(
  appBar: AppBar(
    title: Text('${selectedMeal.title}'),
  ), // AppBar
  body: SingleChildScrollView(
    child: Column(
      children: <Widget>[
        Container(
          height: 300,
          width: double.infinity,
          child: Image.network(
            selectedMeal.imageUrl,
            fit: BoxFit.cover,
          ), // Image.network
        ), // Container
      ], // <Widget>[]
    ), // Column
  ), // SingleChildScrollView
); // Scaffold
}
```

The code editor shows the following details:

- File Path:** lib > screens > meal_detail_screen.dart > MealDetailScreen > build
- Line Numbers:** 11 to 32
- Code Snippet:** A yellow box highlights the line `final selectedMeal = DUMMY_MEALS.firstWhere((meal) => meal.id == mealId);`
- Editor Status:** Ln 11, Col 31, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier

File Edit Selection View Go Run Terminal Help

main.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- test

OUTLINE

TIMELINE

DEPENDENCIES

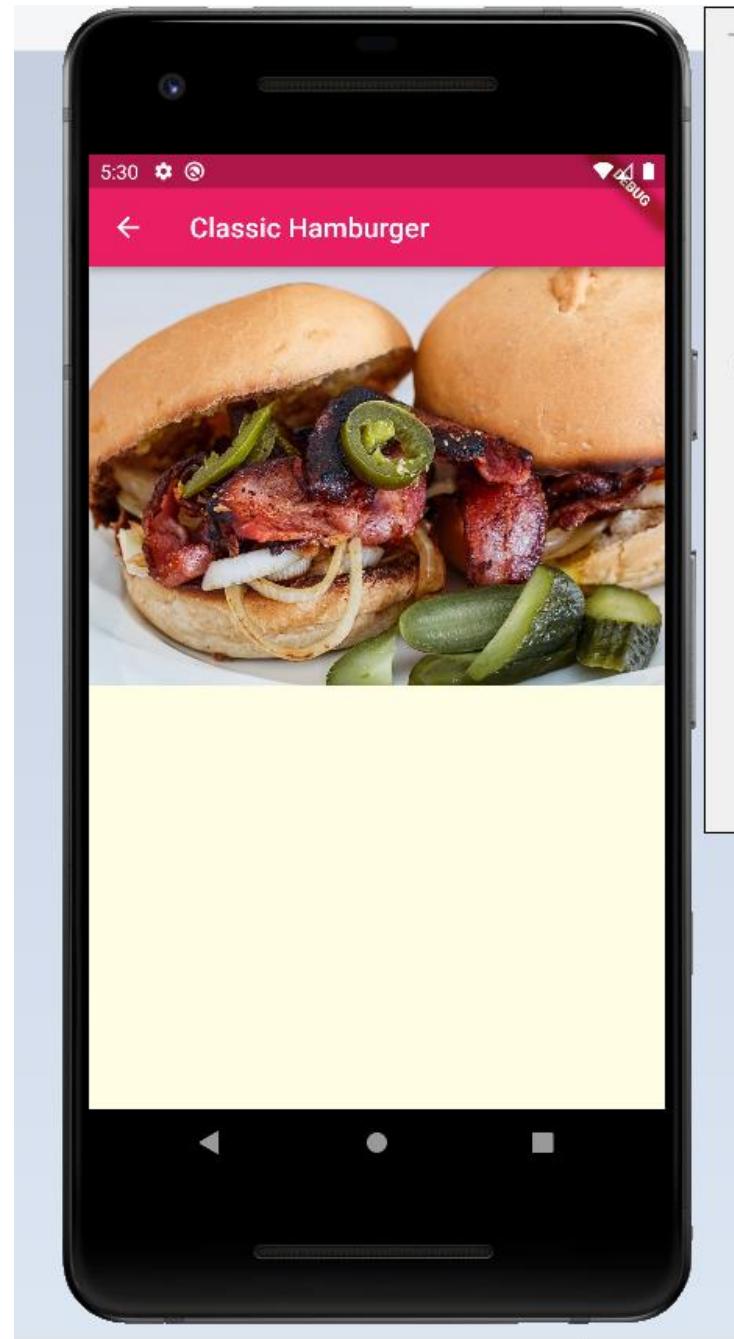
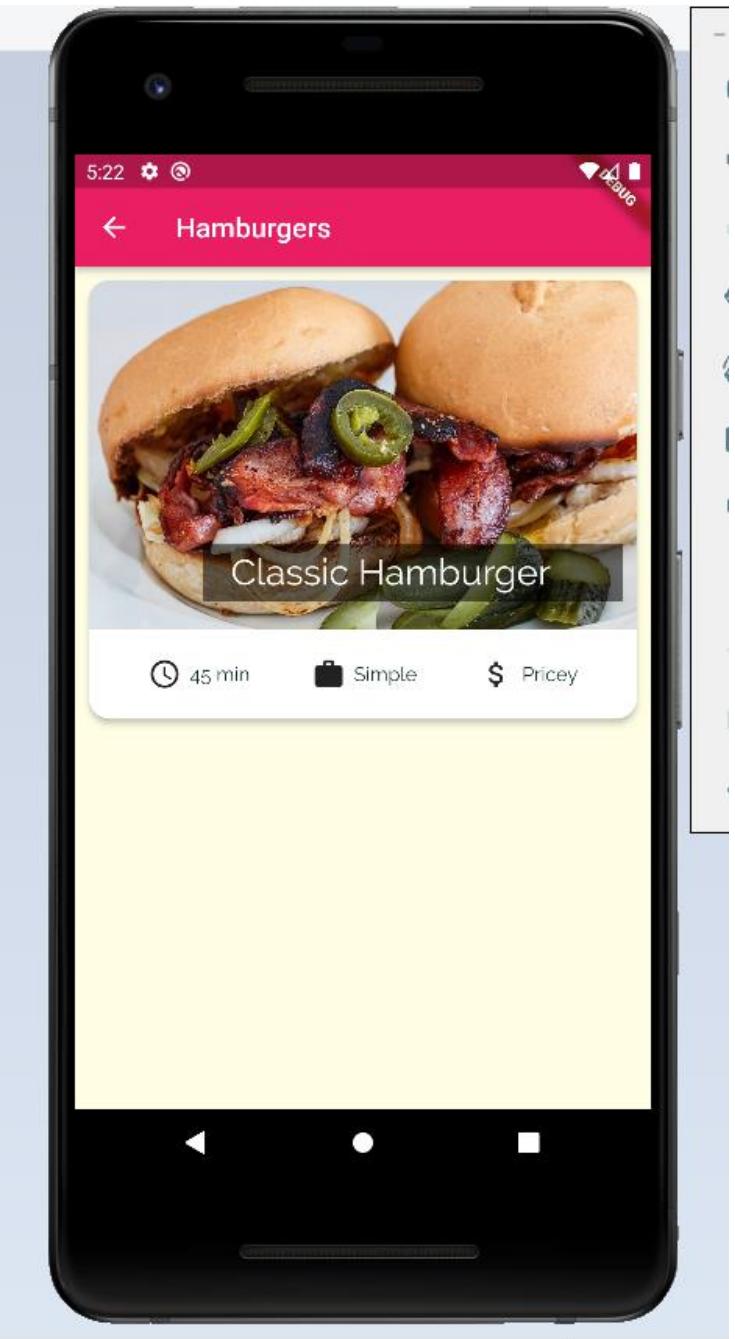
main.dart X dummy_data.dart category_item.dart category.dart meal_item.dart meal_detail_screen.dart

lib > main.dart > MyApp > build

```
22     ), // TextStyle
23     bodyText2: TextStyle(
24         color: Color.fromRGBO(20, 51, 51, 1),
25     ), // TextStyle
26     headline1: TextStyle(
27         fontSize: 20,
28         fontFamily: 'RobotoCondensed',
29         fontWeight: FontWeight.bold,
30     ), // TextStyle
31     ), // ThemeData
32     // home: CategoriesScreen(),
33     initialRoute: '/',
34     routes: {
35         '/': (ctx) => CategoriesScreen(),
36         CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(),
37         MealDetailScreen.routeName: (ctx) => MealDetailScreen(),
38     },
39   ); // MaterialApp
40 }
41 }
42 }
```

main.dart

Ln 38, Col 1 (66 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



ONGENERATEROUTE AND ONUNKNOWNROUTE

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart X dummy_data.dart category_item.dart part category.dart meal_item.dart meal_detail_screen.dart

OPEN EDITORS lib > main.dart > MyApp > build

MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

```
initialRoute: '/', // default is '/'
routes: {
  '/': (ctx) => CategoriesScreen(),
  CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(),
  MealDetailScreen.routeName: (ctx) => MealDetailScreen(),
},
onGenerateRoute: (settings) {
  print(settings.arguments);
  // if (settings.name == '/meal-detail') {
  //   return ...
  // } else if (settings.name == '/something-else') {
  //   return ...
  // }
  // return MaterialPageRoute(builder: (ctx) => CategoriesScreen());
},
onUnknownRoute: (settings) {
  return MaterialPageRoute(
    builder: (ctx) => CategoriesScreen(),
  );
} // MaterialPageRoute
); // MaterialApp
}
```

main.dart

Ln 53, Col 1 (480 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

FINISHING THE MEAL DETAIL PAGE

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- meal.dart lib\models
- main.dart lib
- dummy_data.dart lib
- category_item.dart lib\widgets
- category_meals_screen.dart lib\widgets
- category.dart lib\models
- meal_item.dart lib\widgets
- meal_detail_screen.dart lib\screens
- categories_screen.dart lib\screens

MEALSAPP_07

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - meal_detail_screen.dart
 - widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart

OUTLINE

TIMELINE

DEPENDENCIES

meal_detail_screen.dart

lib > screens > meal_detail_screen.dart > MealDetailScreen > buildSectionTitle

```
1 import 'package:flutter/material.dart';
2
3 import '../dummy_data.dart';
4
5 class MealDetailScreen extends StatelessWidget {
6     static const routeName = '/meal-detail';
7
8     Widget buildSectionTitle(BuildContext context, String text) {
9         return Container(
10             margin: EdgeInsets.symmetric(vertical: 10),
11             child: Text(
12                 text,
13                 style: Theme.of(context).textTheme.headline1,
14             ), // Text
15         ); // Container
16     }
17
18     Widget buildContainer(Widget child) {
19         return Container(
20             decoration: BoxDecoration(
21                 color: Colors.white,
22                 border: Border.all(color: Colors.grey),
23             ),
24             padding: EdgeInsets.all(10),
25             child: child,
26         );
27     }
28 }
```

Ln 14, Col 9 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

screens\meal_detail_screen.dart

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart dummy_data.dart category_item.dart art category.dart meal_item.dart meal_detail_screen.dart

OPEN EDITORS meal.dart lib\models main.dart lib dummy_data.dart lib category_item.dart lib\widgets category_meals_screen.dart lib category.dart lib\models meal_item.dart lib\widgets meal_detail_screen.dart lib\scre... categories_screen.dart lib\scre...

MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

lib > screens > meal_detail_screen.dart > MealDetailScreen > buildSectionTitle

```
22 border: Border.all(color: Colors.grey),
23 borderRadius: BorderRadius.circular(10),
24 ), // BoxDecoration
25 margin: EdgeInsets.all(10),
26 padding: EdgeInsets.all(10),
27 height: 150,
28 width: 300,
29 child: child,
30 ); // Container
31 }
32
33 @override
34 Widget build(BuildContext context) {
35   final mealId = ModalRoute.of(context).settings.arguments as String;
36   final selectedMeal = DUMMY_MEALS.firstWhere((meal) => meal.id == mealId);
37   return Scaffold(
38     appBar: AppBar(
39       title: Text('${selectedMeal.title}'),
40     ), // AppBar
41     body: SingleChildScrollView(
42       child: Column(
43         children: <Widget>[
44           Container(
45             height: 150,
46             width: 300,
47             decoration: BoxDecoration(
48               border: Border.all(color: Colors.grey),
49               borderRadius: BorderRadius.circular(10),
50             ),
51             margin: EdgeInsets.all(10),
52             padding: EdgeInsets.all(10),
53             height: 150,
54             width: 300,
55             child: child,
56           );
57         ],
58       );
59     );
60   );
61 }
```

screens\meal_detail_screen.dart

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart dummy_data.dart category_item.dart art category.dart meal_item.dart meal_detail_screen.dart

OPEN EDITORS meal.dart lib\models main.dart lib dummy_data.dart lib category_item.dart lib\widgets category_meals_screen.dart lib... category.dart lib\models meal_item.dart lib\widgets meal_detail_screen.dart lib\scre... categories_screen.dart lib\scre...

MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

lib > screens > meal_detail_screen.dart > MealDetailScreen > buildSectionTitle

```
41 body: SingleChildScrollView(42     child: Column(43         children: <Widget>[44             Container(45                 height: 300,46                 width: double.infinity,47                 child: Image.network(48                     selectedMeal.imageUrl,49                     fit: BoxFit.cover,50                 ), // Image.network51             ), // Container52             buildSectionTitle(context, 'Ingredients'),53             buildContainer(54                 ListView.builder(55                     itemBuilder: (ctx, index) => Card(56                         color: Theme.of(context).accentColor,57                         child: Padding(58                             padding: EdgeInsets.symmetric(59                                 vertical: 5,60                                 horizontal: 10,61                             ), // EdgeInsets.symmetric62                             child: Text(selectedMeal.ingredients[index])), // Padding
```

screens\meal_detail_screen.dart

Ln 14, Col 9 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart dummy_data.dart category_item.dart meal.dart lib\models main.dart lib dummy_data.dart lib category_item.dart lib\widgets category_meals_screen.dart lib... category.dart lib\models meal_item.dart lib\widgets meal_detail_screen.dart lib\scre... categories_screen.dart lib\scre... MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

meal_detail_screen.dart

lib > screens > meal_detail_screen.dart > MealDetailScreen > buildSectionTitle

```
62         child: Text(selectedMeal.ingredients[index])), // Padding
63     ), // Card
64     itemCount: selectedMeal.ingredients.length,
65     ), // ListView.builder
66   ),
67   buildSectionTitle(context, 'Steps'),
68   buildContainer(
69     ListView.builder(
70       itemBuilder: (ctx, index) => Column(
71         children: [
72           ListTile(
73             leading: CircleAvatar(
74               child: Text('# ${(index + 1)}'),
75             ), // CircleAvatar
76             title: Text(
77               selectedMeal.steps[index],
78             ), // Text
79           ), // ListTile
80           Divider()
81         ],
82       ), // Column
83       itemCount: selectedMeal.steps.length,
```

screens\meal_detail_screen.dart

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... main.dart dummy_data.dart category_item.dart art category.dart meal_item.dart meal_detail_screen.dart

OPEN EDITORS meal.dart lib\models main.dart lib dummy_data.dart lib category_item.dart lib\widgets category_meals_screen.dart lib... category.dart lib\models meal_item.dart lib\widgets meal_detail_screen.dart lib\scre... categories_screen.dart lib\scre...

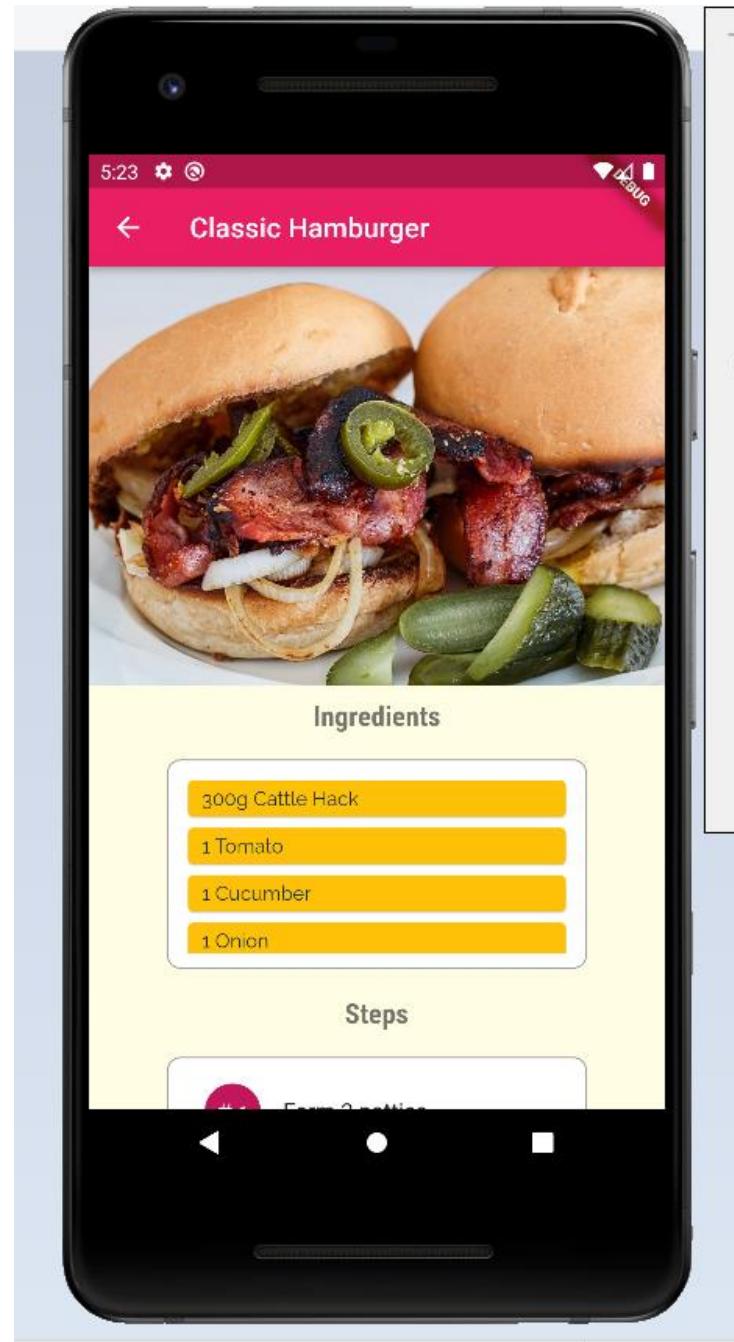
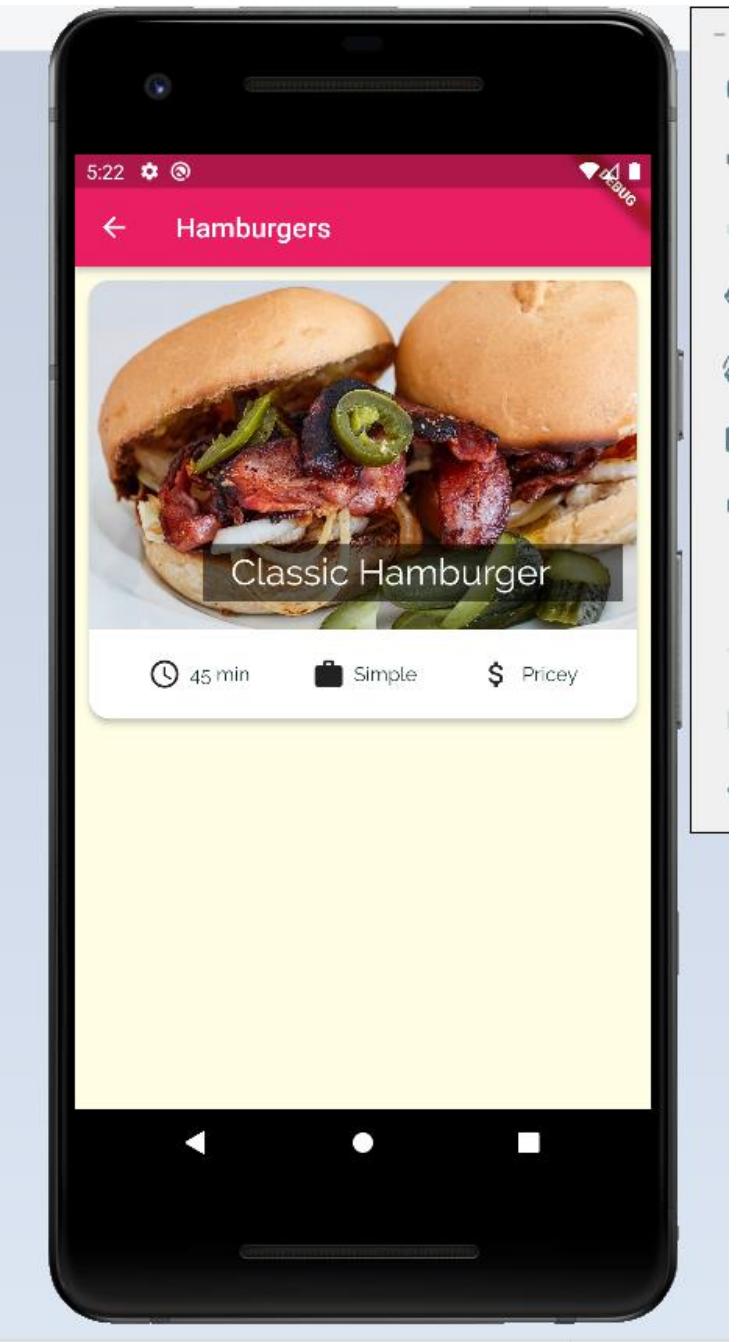
MEALSAPP.07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart meal_detail_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test OUTLINE TIMELINE DEPENDENCIES

lib > screens > meal_detail_screen.dart > MealDetailScreen > buildSectionTitle

```
71     children: [
72       ListTile(
73         leading: CircleAvatar(
74           child: Text('# ${index + 1}'),
75         ), // CircleAvatar
76         title: Text(
77           selectedMeal.steps[index],
78         ), // Text
79       ), // ListTile
80       Divider()
81     ],
82   ), // Column
83   itemCount: selectedMeal.steps.length,
84   ), // ListView.builder
85   ),
86   ], // <Widget>[]
87   ), // Column
88   ), // SingleChildScrollView
89 ); // Scaffold
90 }
91 }
92 }
```

screens\meal_detail_screen.dart

Ln 14, Col 9 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



ADDING A TABBAR TO THE APPBAR

A screenshot of the Visual Studio Code interface, showing the code editor with the file `favorites_screen.dart` open. The code defines a `FavoritesScreen` class that extends `StatelessWidget`. It contains a single `build` method which returns a `Center` widget with the text 'The Favorites'.

```
import 'package:flutter/material.dart';

class FavoritesScreen extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        return Center(
            child: Text('The Favorites'),
        ); // Center
    }
}
```

The Explorer sidebar on the left shows the project structure under the `MEALSAPP_07` folder, including `lib`, `screens`, and `widgets` directories. The `favorites_screen.dart` file is selected in the Explorer. The status bar at the bottom shows the file path `favorites_screen.dart - mealsapp_07 - Visual Studio Code`, line 11, column 1, and other details like API level 29 and an android-x86 emulator.

screens\favorites_screen.dart

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** tabs_screen.dart - mealsapp_07 - Visual Studio Code.
- Left Sidebar (Explorer):**
 - OPEN EDITORS: tabs_screen.dart, favorites_screen.dart
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios, lib (models: category.dart, meal.dart; screens: categories_screen.dart, category_meals_screen.dart, favorites_screen.dart, meal_detail_screen.dart, tabs_screen.dart), widgets (category_item.dart, meal_item.dart, dummy_data.dart, main.dart), test, web, .gitignore, .metadata, .packages, analysis_options.yaml
- Code Editor:** The current file is tabs_screen.dart. The code implements a TabBar with two tabs: 'Meals' and 'Favorites'.

```
import 'package:flutter/material.dart';
import './favorites_screen.dart';
import './categories_screen.dart';

class TabsScreen extends StatefulWidget {
    @override
    _TabsScreenState createState() => _TabsScreenState();
}

class _TabsScreenState extends State<TabsScreen> {
    @override
    Widget build(BuildContext context) {
        return DefaultTabController(
            length: 2,
            // initialIndex: 0,
            child: Scaffold(
                appBar: AppBar(
                    title: Text('Meals'),
                    bottom: TabBar(
                        tabs: <Widget>[
                            Tab(

```
- Status Bar:** Ln 3, Col 1, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.

A screenshot of the Visual Studio Code interface displaying Dart code for a tabbed screen. The code defines a `TabsScreen` class that extends `StatefulWidget`. It contains a `Widget` named `child` which is a `Scaffold` with an `AppBar` titled 'Meals'. The `bottom` property is a `TabBar` with two tabs: 'Categories' and 'Favorites'. Each tab has an `Icon` and a `text` label. The `body` property is a `TabBarView` with two children corresponding to the tabs.

```
17 child: Scaffold(
18     appBar: AppBar(
19         title: Text('Meals'),
20         bottom: TabBar(
21             tabs: <Widget>[
22                 Tab(
23                     icon: Icon(
24                         Icons.category,
25                     ), // Icon
26                     text: 'Categories',
27                 ), // Tab
28                 Tab(
29                     icon: Icon(
30                         Icons.star,
31                     ), // Icon
32                     text: 'Favorites',
33                 ), // Tab
34             ], // <Widget>[]
35         ), // TabBar
36     ), // AppBar
37     body: TabBarView(
38         children: <Widget>[
```

screens\tabs_screen.dart

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** tabs_screen.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar:** Explorer, Search, Find, Open Editors, MEALSAPP_07, Outline, Timeline, Dependencies.
- Central Area:** The tabs_screen.dart file is open in the editor. The code defines a TabBarView with two tabs: 'Categories' and 'Favorites'.

```
26     text: 'Categories',
27     ), // Tab
28     Tab(
29       icon: Icon(
30         Icons.star,
31       ), // Icon
32       text: 'Favorites',
33     ), // Tab
34   ], // <Widget>[]
35   ), // TabBar
36   ), // AppBar
37   body: TabBarView(
38     children: <Widget>[
39       CategoriesScreen(),
40       FavoritesScreen(),
41     ], // <Widget>[]
42     ), // TabBarView
43   ), // Scaffold
44 ); // DefaultTabController
45 }
46 }
47 }
```
- Bottom Status Bar:** Ln 6, Col 42, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier.
- Bottom Right:** A yellow text overlay "screens\tabs_screen.dart".

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

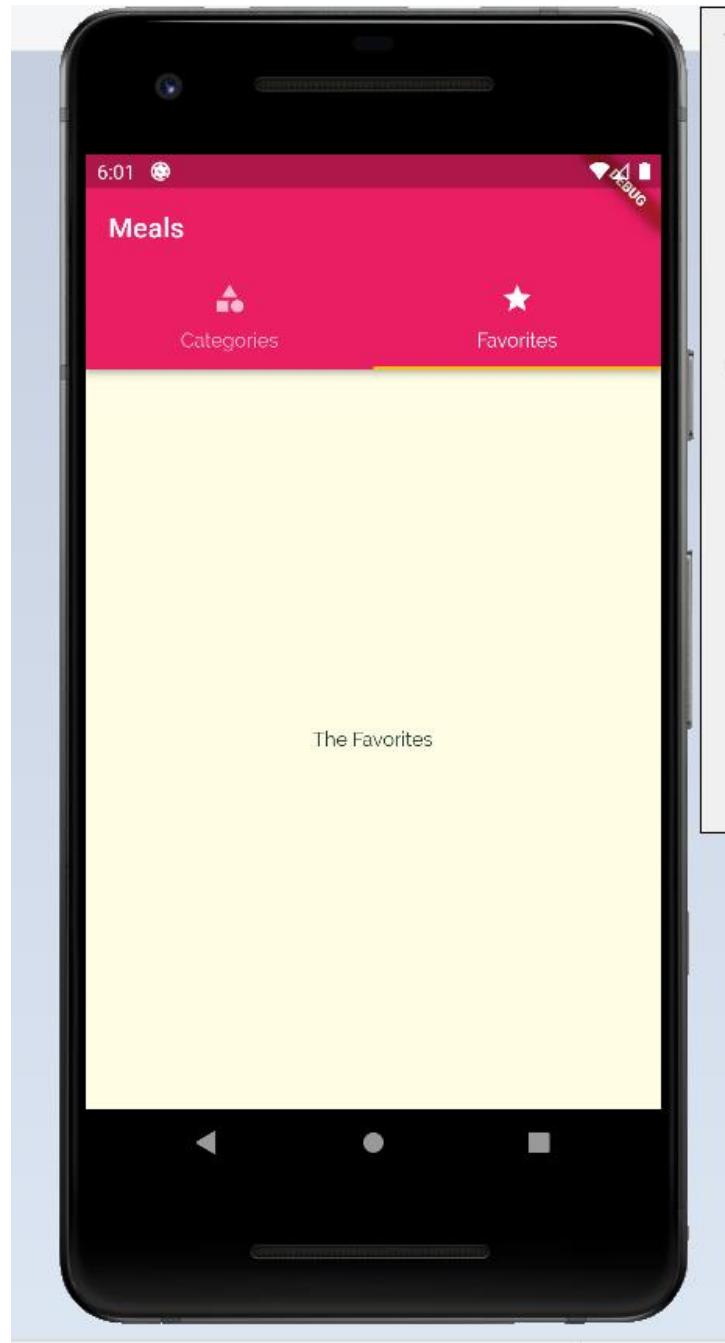
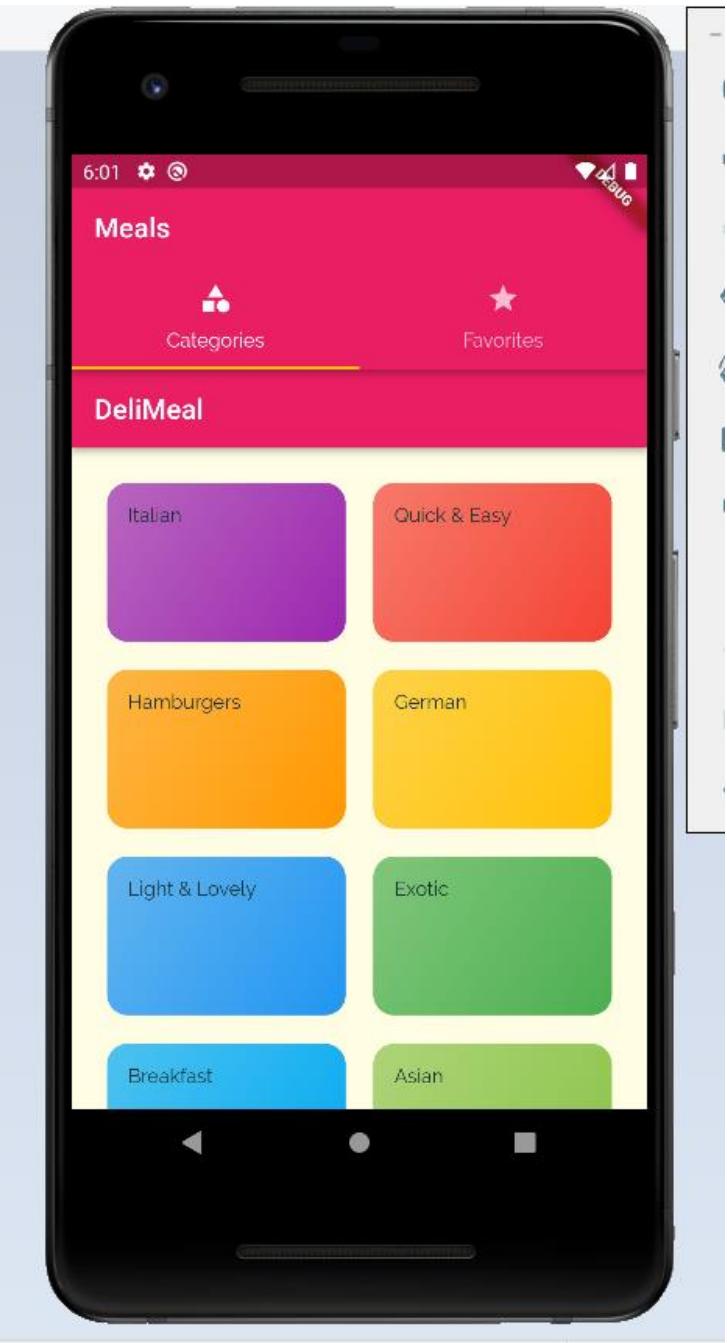
OPEN EDITORS tabs_screen.dart main.dart X favorites_screen.dart

lib > main.dart > MyApp > build

```
33     // home: CategoriesScreen(),
34     initialRoute: '/', // default is '/'
35     routes: {
36       '/': (ctx) => TabsScreen(),
37       CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(),
38       MealDetailScreen.routeName: (ctx) => MealDetailScreen(),
39     },
40     onGenerateRoute: (settings) {
41       print(settings.arguments);
42       // if (settings.name == '/meal-detail') {
43       //   return ...
44       // } else if (settings.name == '/something-else') {
45       //   return ...
46       // }
47       // return MaterialPageRoute(builder: (ctx) => CategoriesScreen());
48     },
49     onUnknownRoute: (settings) {
50       return MaterialPageRoute(
51         builder: (ctx) => CategoriesScreen(),
52       ); // MaterialPageRoute
53     },
54   ); // MaterialApp
55 }
```

main.dart

Ln 37, Col 1 (37 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



File Edit Selection View Go Run Terminal Help categories_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- tabs_screen.dart lib\screens
- main.dart lib
- X categories_screen.dart lib\scre...
- favorites_screen.dart lib\screens

MEALSAPP_07

- > .dart_tool
- > .idea
- > android
- > assets
- > build
- > ios
- > lib
 - > models
 - category.dart
 - meal.dart
 - > screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart
 - > widgets
 - category_item.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- > test
- > web
- .gitignore
- metadata

OUTLINE

TIMELINE

DEPENDENCIES

stable Debug my code

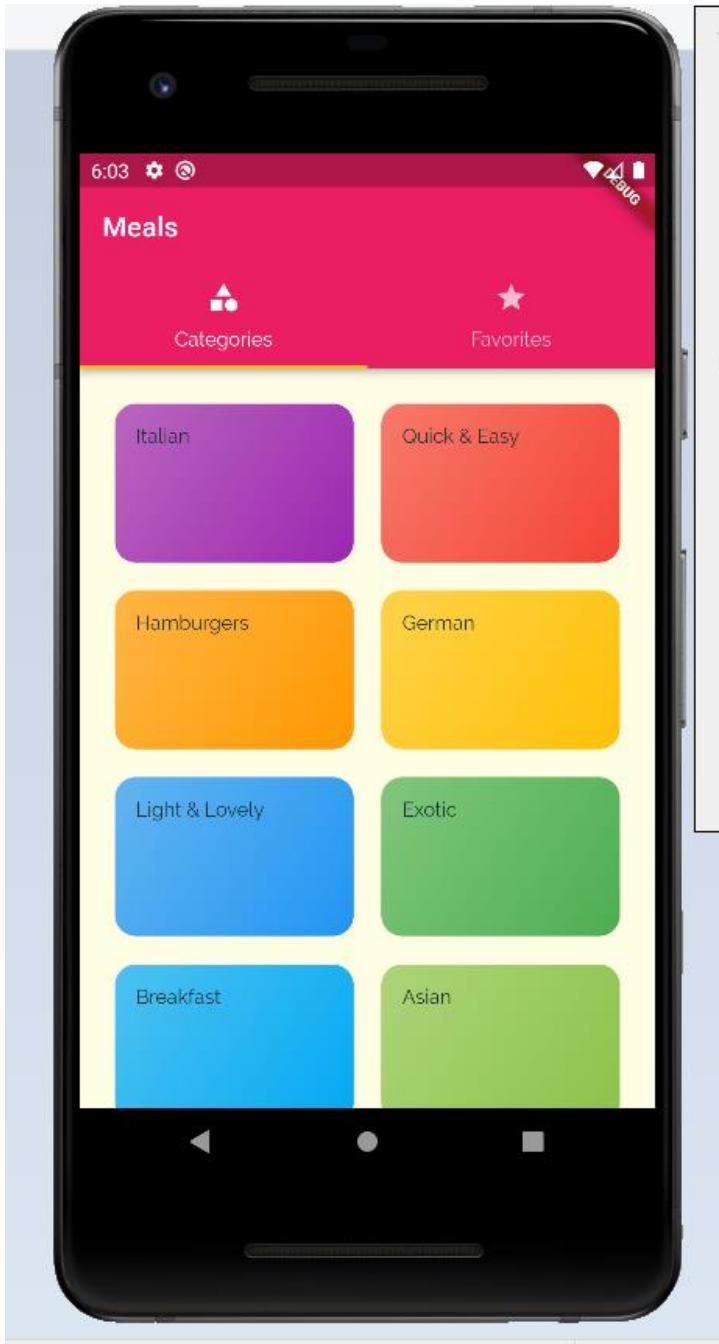
categories_screen.dart

lib > screens > categories_screen.dart > CategoriesScreen > build

```
1 import 'package:flutter/material.dart';
2
3 import '../dummy_data.dart';
4 import '../widgets/category_item.dart';
5
6 class CategoriesScreen extends StatelessWidget {
7     @override
8     Widget build(BuildContext context) {
9         return GridView(
10             padding: const EdgeInsets.all(25),
11             children: DUMMY_CATEGORIES
12                 .map(
13                     (catData) => CategoryItem(
14                         catData.id,
15                         catData.title,
16                         catData.color,
17                     ), // CategoryItem
18                 )
19                 .toList(),
20             gridDelegate: SliverGridDelegateWithMaxCrossAxisExtent(
21                 maxCrossAxisExtent: 200,
22                 childAspectRatio: 3 / 2,
```

screens\categories_screen.dart

Ln 9, Col 20 (8 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier



ADDING A BOTTOM TABBAR

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** tabs_screen.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):**
 - OPEN EDITORS: tabs_screen.dart, main.dart, categories_screen.dart, favorites_screen.dart
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios, lib (selected), models (category.dart, meal.dart), screens (categories_screen.dart, category_meals_screen.dart, favorites_screen.dart, meal_detail_screen.dart, tabs_screen.dart), widgets (category_item.dart, meal_item.dart, dummy_data.dart, main.dart), test, web, .gitignore, metadata
 - OUTLINE, TIMELINE, DEPENDENCIES
- Central Area:** Code editor showing tabs_screen.dart. The code imports various screens and defines the TabsScreen class and its state.
- Bottom Status Bar:** Ln 65, Col 1, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Pixel 2 API 29 (android-x86 emulator), Prettier, and a few other icons.
- Bottom Right:** A yellow text overlay: "screens\tabs_screen.dart"

A screenshot of the Visual Studio Code interface showing a Dart file named `tabs_screen.dart` open in the editor. The code defines a state class for a tabbed screen, listing three pages: CategoriesScreen, FavoritesScreen, and a placeholder page. The code uses the `StatefulWidget` pattern with `State<TabsScreenState>`. The `build` method returns a `Scaffold` widget.

```
16 class _TabsScreenState extends State<TabsScreen> {
17   final List<Map<String, Object>> _pages = [
18     {
19       'page': CategoriesScreen(),
20       'title': 'Categories',
21     },
22     {
23       'page': FavoritesScreen(),
24       'title': 'Your Favorite',
25     },
26   ];
27   int _selectedPageIndex = 0;
28
29   void _selectPage(int index) {
30     setState(() {
31       _selectedPageIndex = index;
32     });
33   }
34
35   @override
36   Widget build(BuildContext context) {
37     return Scaffold(
```

The status bar at the bottom shows the file path `lib > screens > tabs_screen.dart`, the current line and column (`Ln 65, Col 1`), and the file encoding (`UTF-8`). The bottom right corner displays the text `screens\tabs_screen.dart`.

File Edit Selection View Go Run Terminal Help tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart X main.dart categories_scre II ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌍

OPEN EDITORS lib > screens > tabs_screen.dart > _TabsScreenState > build

MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test web .gitignore .metadata

35 @override
36 Widget build(BuildContext context) {
37 return Scaffold(
38 appBar: AppBar(
39 title: Text(_pages[_selectedPageIndex]['title']),
40), // AppBar
41 body: _pages[_selectedPageIndex]['page'],
42 bottomNavigationBar: BottomNavigationBar(
43 onTap: _selectPage,
44 backgroundColor: Theme.of(context).primaryColor,
45 unselectedItemColor: Colors.white,
46 selectedItemCount: Theme.of(context).accentColor,
47 currentIndex: _selectedPageIndex,
48 // type: BottomNavigationBarType.fixed,
49 items: [
50 BottomNavigationBarItem(
51 backgroundColor: Theme.of(context).primaryColor,
52 icon: Icon(Icons.category),
53 label: 'Categories',
54), // BottomNavigationBarItem
55 BottomNavigationBarItem(
56 backgroundColor: Theme.of(context).primaryColor,

screens\tabs_screen.dart

stable ⌂ 0 ⌁ 1 ⌂ 7 ⌂ Debug my code Ln 56, Col 46 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) ⌂ Prettier ⌂ ⌂

File Edit Selection View Go Run Terminal Help tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER OPEN EDITORS tabs_screen.dart X main.dart categories_scre ...

lib > screens > tabs_screen.dart > _TabsScreenState > build

```
44     backgroundColor: Theme.of(context).primaryColor,
45     unselectedItemColor: Colors.white,
46     selectedItemColor: Theme.of(context).accentColor,
47     currentIndex: _selectedPageIndex,
48     // type: BottomNavigationBarType.fixed,
49     items: [
50       BottomNavigationBarItem(
51         backgroundColor: Theme.of(context).primaryColor,
52         icon: Icon(Icons.category),
53         label: 'Categories',
54       ), // BottomNavigationBarItem
55       BottomNavigationBarItem(
56         backgroundColor: Theme.of(context).primaryColor,
57         icon: Icon(Icons.star),
58         label: 'Favorites',
59       ), // BottomNavigationBarItem
60     ],
61   ), // BottomNavigationBar
62 ); // Scaffold
63 }
64 }
65 }
```

screens\tabs_screen.dart

Ln 56, Col 46 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Pixel 2 API 29 (android-x86 emulator) Prettier

ADDING A CUSTOM DRAWER

File Edit Selection View Go Run Terminal Help tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER tabs_screen.dart X lib > screens > tabs_screen.dart > _TabsScreenState > build

OPEN EDITORS tabs_screen.dart lib... MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... meal_detail_scree... tabs_screen.dart widgets category_item.dart meal_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.... 1 mealsapp_07.iml pubspec.lock OUTLINE DEPENDENCIES

28 void _selectPage(int index) {
29 setState(() {
30 _selectedPageIndex = index;
31 });
32 }
33 }
34
35 @override
36 Widget build(BuildContext context) {
37 return Scaffold(
38 appBar: AppBar(
39 title: Text(_pages[_selectedPageIndex]['title']),
40), // AppBar
41 drawer: Drawer(
42 child: Text('The Drawer!'),
43), // Drawer
44 body: _pages[_selectedPageIndex]['page'],
45 bottomNavigationBar: BottomNavigationBar(
46 onTap: _selectPage,
47 backgroundColor: Theme.of(context).primaryColor,
48 unselectedItemColor: Colors.white,
49 selectedItemColor: Theme.of(context).accentColor,

tabs_drawer.dart

File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart meal_item.dart main_drawer.dart ⏪ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹

OPEN EDITORS tabs_screen.dart lib\ widgets\ main_drawer.dart lib\ ...

MEALSAPP_07 android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... meal_detail_scree... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.... 1 mealsapp_07.iml

OUTLINE DEPENDENCIES

```
1 import 'package:flutter/material.dart';
2
3 class MainDrawer extends StatelessWidget {
4     Widget buildListTile(String title, IconData icon) {
5         return ListTile(
6             leading: Icon(
7                 icon,
8                 size: 26,
9             ), // Icon
10            title: Text(
11                title,
12                style: TextStyle(
13                    fontFamily: 'RobotoCondensed',
14                    fontSize: 24,
15                    fontWeight: FontWeight.bold,
16                ), // TextStyle
17            ), // Text
18            onTap: () {
19                // ...
20            },
21        ); // ListTile
22    }
}
```

wIDGETS\main_drawer.dart

Ln 59, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart meal_item.dart main_drawer.dart lib > widgets > main_drawer.dart > ...

OPEN EDITORS tabs_screen.dart lib... meal_item.dart lib... main_drawer.dart lib...

MEALSAPP_07 android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... meal_detail_scree... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.... 1 mealsapp_07.iml

OUTLINE DEPENDENCIES

18 onTap: () {
19 // ...
20 },
21); // ListTile
22 }
23
24 @override
25 Widget build(BuildContext context) {
26 return Drawer(
27 child: Column(
28 children: <Widget>[
29 Container(
30 height: 120,
31 width: double.infinity,
32 padding: EdgeInsets.all(20),
33 alignment: Alignment.centerLeft,
34 color: Theme.of(context).accentColor,
35 child: Text(
36 'Cooking Up!',
37 style: TextStyle(
38 fontWeight: FontWeight.w900,
39 fontSize: 30,

wIDGETS\main_drawer.dart

Ln 59, Col 1 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart meal_item.dart main_drawer.dart ⚡ ⌂ ⌄ ⌁ ⌂ ⌃

OPEN EDITORS lib > widgets > main_drawer.dart > ...

MEALSAPP_07 > android > assets > build > ios > lib > models category.dart meal.dart > screens categories_screen.... category_meals_sc... favorites_screen.d... meal_detail_scree... tabs_screen.dart > widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart > test > web .gitignore .metadata .packages analysis_options.... 1 mealsapp_07.iml

OUTLINE > DEPENDENCIES

37 style: TextStyle(
38 fontWeight: FontWeight.w900,
39 fontSize: 30,
40 color: Theme.of(context).primaryColor), // TextStyle
41), // Text
42), // Container
43 SizedBox(
44 height: 20,
45), // SizedBox
46 buildListTile(
47 'Meals',
48 Icons.restaurant,
49),
50 buildListTile(
51 'Filters',
52 Icons.settings,
53),
54], // <Widget>[]
55), // Column
56); // Drawer
57 }
58 }

widgets\main_drawer.dart

Ln 59, Col 1 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart X main_drawer.dart

OPEN EDITORS tabs_screen.dart lib... main_drawer.dart lib...

MEALSAPP_07 android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... meal_detail_scre... tabs_screen.dart

widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web .gitignore .metadata .packages analysis_options.... 1 mealsapp_07.iml pubspec.lock

OUTLINE

DEPENDENCIES

29 }

30 }

31 @override

32 Widget build(BuildContext context) {

33 return Scaffold(

34 appBar: AppBar(

35 title: Text(_pages[_selectedPageIndex]['title']),

36), // AppBar

37 drawer: MainDrawer(),

38 body: _pages[_selectedPageIndex]['page'],

39 bottomNavigationBar: BottomNavigationBar(

40 onTap: _selectPage,

41 backgroundColor: Theme.of(context).primaryColor,

42 unselectedItemColor: Colors.white,

43 selectedItemColor: Theme.of(context).accentColor,

44 currentIndex: _selectedPageIndex,

45 // type: BottomNavigationBarType.fixed,

46 items: [

47 BottomNavigationBarItem(

48 backgroundColor: Theme.of(context).primaryColor,

49 icon: Icon(Icons.category),

50 label: 'Categories',

9:57 Cooking Up!

Meals

Filters

Cooking Up!

Meals

Filters

Categories

screens\tabs_screen.dart

Ln 38, Col 1 (29 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

ADDING LINKS TO THE DRAWER

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** filters_screen.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):** Shows the project structure under "MEALSAPP_07".
 - OPEN EDITORS: tabs_screen.dart, main_drawer.dart, filters_screen.dart (selected).
 - MEALSAPP_07: .dart_tool, .idea, android, assets, build, ios.
 - lib: models (category.dart, meal.dart), screens (categories_screen.dart, category_meals_sc..., favorites_screen.dart, filters_screen.dart selected, meal_detail_scree..., tabs_screen.dart), widgets (category_item.dart, main_drawer.dart, meal_item.dart, dummy_data.dart, main.dart).
 - test, web, .gitignore, metadata.
- Central Area:** Code editor showing the content of filters_screen.dart.

```
1 import 'package:flutter/material.dart';
2
3 import '../widgets/main_drawer.dart';
4
5 class FiltersScreen extends StatelessWidget {
6     static const routeName = '/filters';
7
8     @override
9     Widget build(BuildContext context) {
10         return Scaffold(
11             appBar: AppBar(
12                 title: Text('Your Filters'),
13             ), // AppBar
14             drawer: MainDrawer(),
15             body: Center(
16                 child: Text('Filters!'),
17             ), // Center
18         ); // Scaffold
19     }
20 }
21 
```
- Bottom Status Bar:** Ln 21, Col 1, Spaces: 2, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Flutter Emulator (android-x86 emulator), Prettier, etc.

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart main.dart X :: II ⌂ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌍

OPEN EDITORS lib > main.dart > MyApp > build

MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... filters_screen.dart meal_detail_scree... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web citizens OUTLINE DEPENDENCIES

headline1: TextStyle(
 fontSize: 20,
 fontFamily: 'RobotoCondensed',
 fontWeight: FontWeight.bold,
), // TextStyle
, // ThemeData
// home: CategoriesScreen(),
initialRoute: '/', // default is '/'
routes: {
 '/': (ctx) => TabsScreen(),
 CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(),
 MealDetailScreen.routeName: (ctx) => MealDetailScreen(),
 FiltersScreen.routeName: (ctx) => FiltersScreen(),
},
onGenerateRoute: (settings) {
 print(settings.arguments);
 // if (settings.name == '/meal-detail') {
 // return ...;
 // } else if (settings.name == '/something-else') {
 // return ...;
 // }
 // return MaterialPageRoute(builder: (ctx) => CategoriesScreen());

main.dart

Ln 41, Col 1 (60 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart X main.dart

lib > widgets > main_drawer.dart > MainDrawer > buildListTile

```
1 import 'package:flutter/material.dart';
2 import '../screens/filters_screen.dart';
3
4 class MainDrawer extends StatelessWidget {
5   Widget buildListTile(String title, IconData icon, Function tapHandler) {
6     return ListTile(
7       leading: Icon(
8         icon,
9         size: 26,
10        ), // Icon
11       title: Text(
12         title,
13         style: TextStyle(
14           fontFamily: 'RobotoCondensed',
15           fontSize: 24,
16           fontWeight: FontWeight.bold,
17           ), // TextStyle
18       onTap: tapHandler,
19     ); // ListTile
20   }
21 }
```

wIDGETS\main_drawer.dart

Ln 20, Col 1 (382 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart category_item.dart screen.dart

OPEN EDITORS tabs_screen.dart lib > widgets > main_drawer.dart > MainDrawer > build

OPEN EDITORS main_drawer.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS category_item.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS screen.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS tabs_screen.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS main_drawer.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS category_item.dart lib > widgets > main_drawer.dart > build

OPEN EDITORS main.dart lib > widgets > main_drawer.dart > build

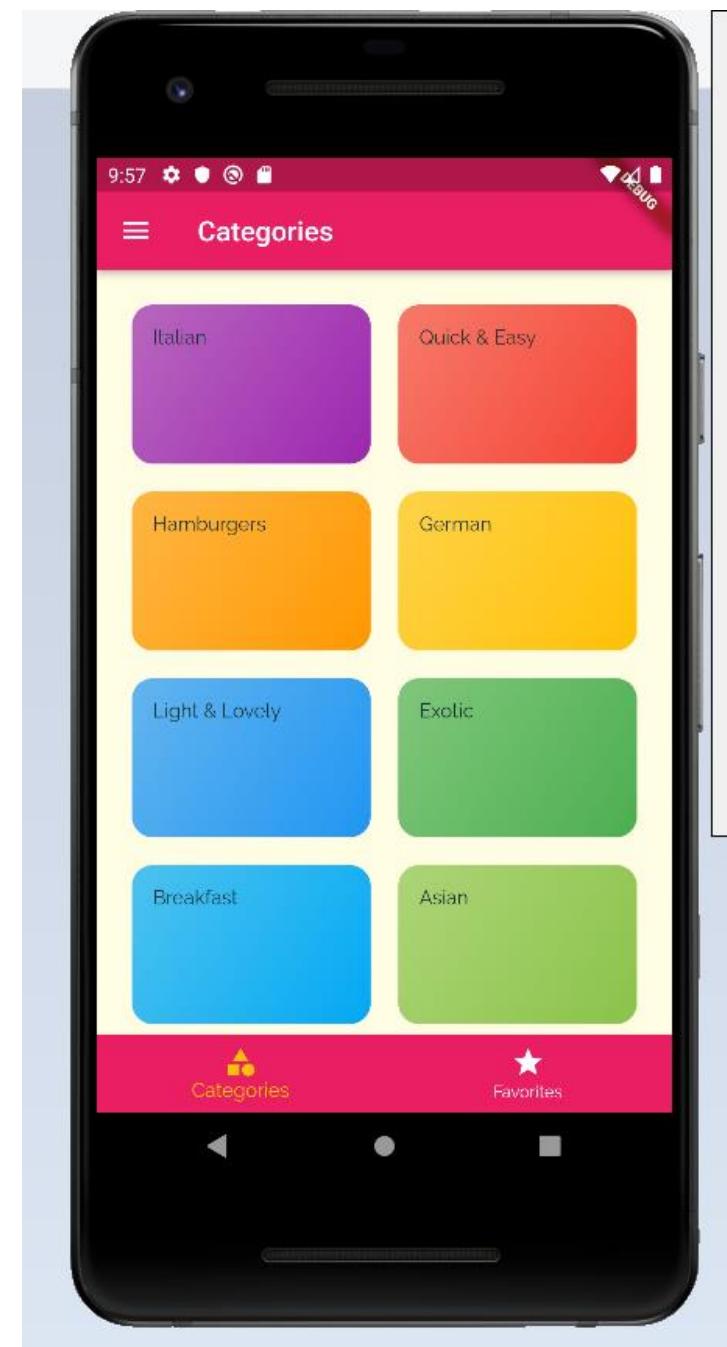
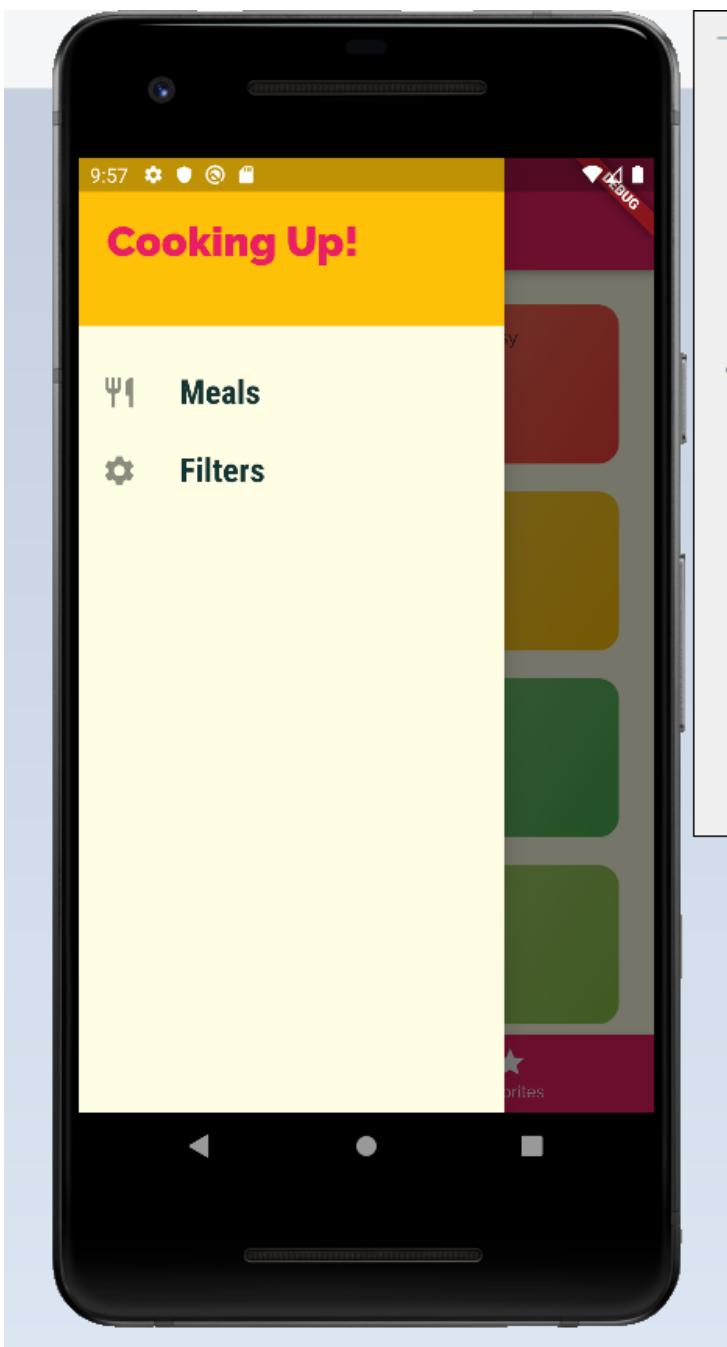
OPEN EDITORS filters_screen.dart lib > widgets > main_drawer.dart > build

MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_sc... favorites_screen.d... filters_screen.dart meal_detail_scre... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test

widgets\main_drawer.dart

```
35     'Cooking Up!',  
36     style: TextStyle(  
37         fontWeight: FontWeight.w900,  
38         fontSize: 30,  
39         color: Theme.of(context).primaryColor), // TextStyle  
40     ), // Text  
41     ), // Container  
42     SizedBox(  
43         height: 20,  
44     ), // SizedBox  
45     buildListTile('Meals', Icons.restaurant, () {  
46         Navigator.of(context).pushNamed('/');  
47     }),  
48     buildListTile('Filters', Icons.settings, () {  
49         Navigator.of(context).pushNamed(FiltersScreen.routeName);  
50     }),  
51     ], // <Widget>[]  
52     ), // Column  
53     ); // Drawer  
54 }  
55 }  
56 }
```

Ln 51, Col 1 (266 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



REPLACING PAGES (INSTEAD OF PUSHING)

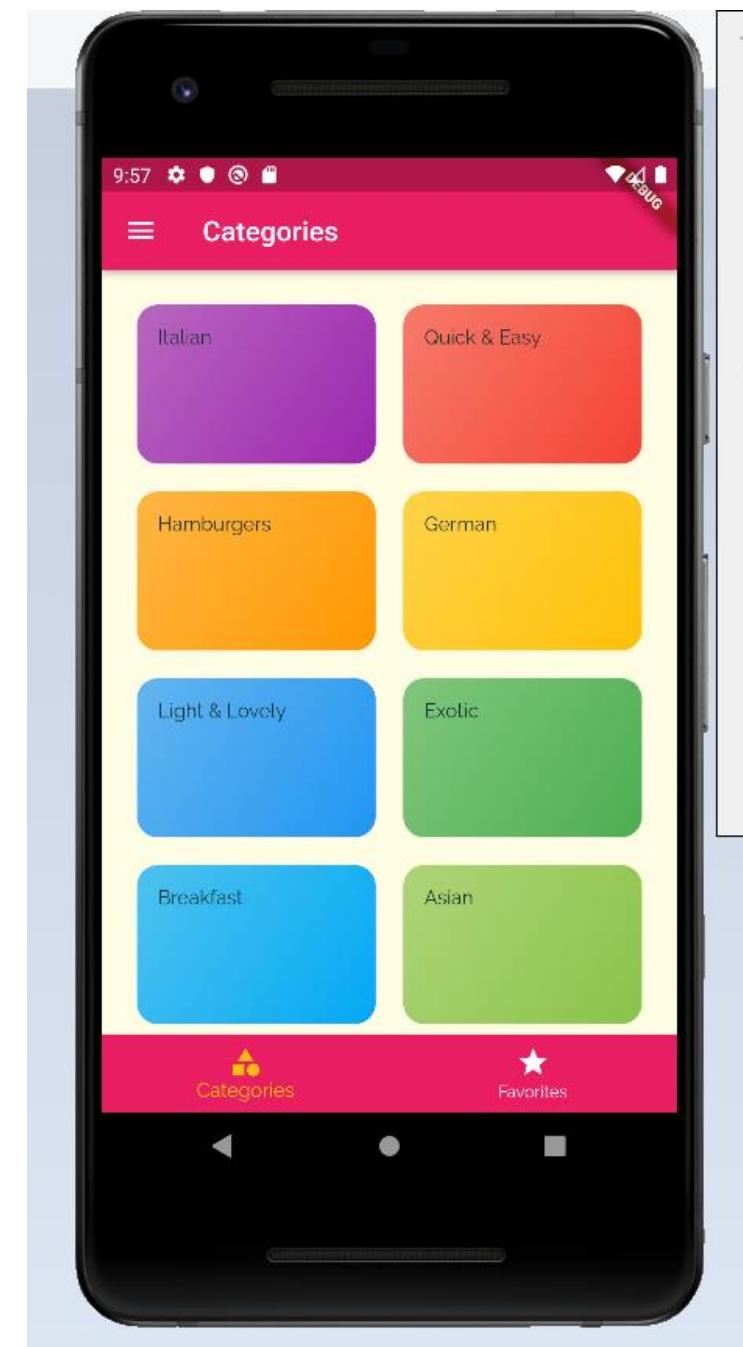
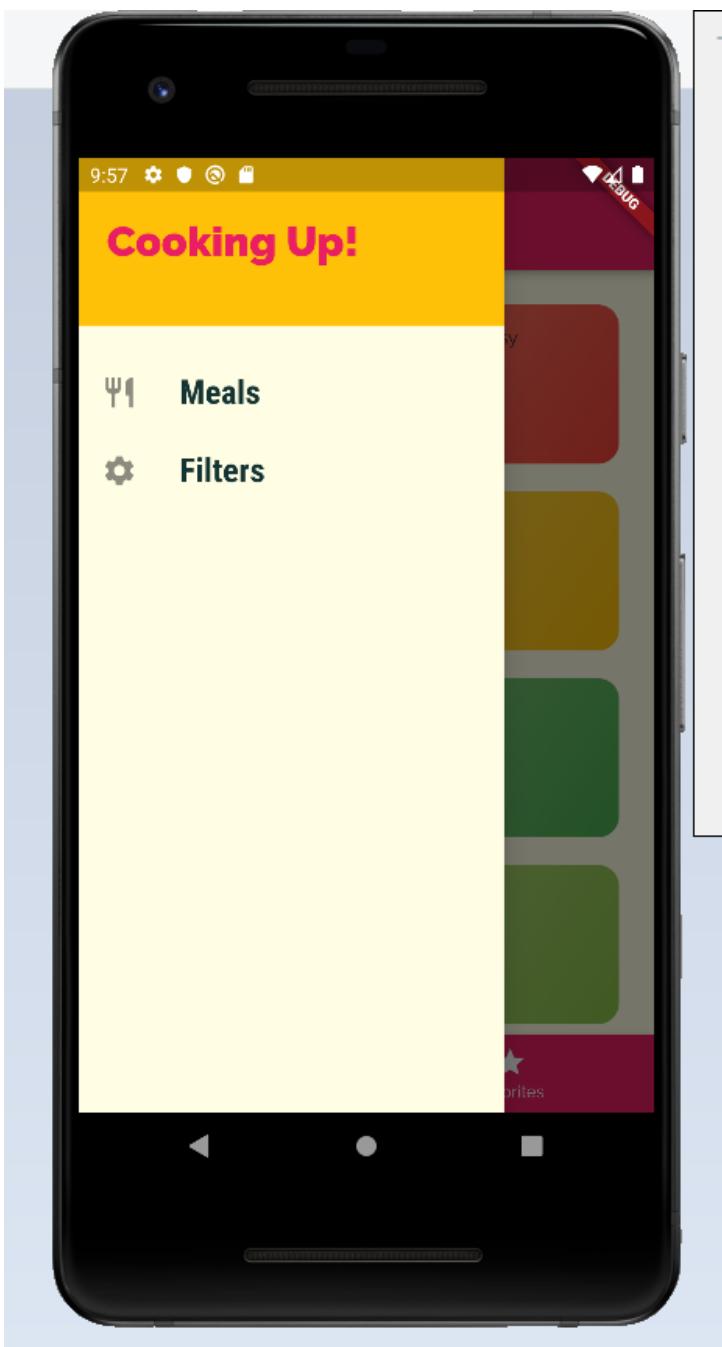
File Edit Selection View Go Run Terminal Help main_drawer.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart main.dart

OPEN EDITORS lib > widgets > main_drawer.dart > build
34 child: Text(
35 'Cooking Up!',
36 style: TextStyle(
37 fontWeight: FontWeight.w900,
38 fontSize: 30,
39 color: Theme.of(context).primaryColor), // TextStyle
40), // Text
41), // Container
42 SizedBox(
43 height: 20,
44), // SizedBox
45 buildListTile('Meals', Icons.restaurant, () {
46 Navigator.of(context).pushReplacementNamed('/');
47 },
48 buildListTile('Filters', Icons.settings, () {
49 Navigator.of(context).pushReplacementNamed(FiltersScreen.routeName);
50 }),
51], // <Widget>[]
52), // Column
53); // Drawer
54 }
55 }
56 }

widgets\main_drawer.dart

LN 51, Col 1 (288 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



POPPING PAGES AND PASSING DATA BACK

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail_screen.s... screen.dart

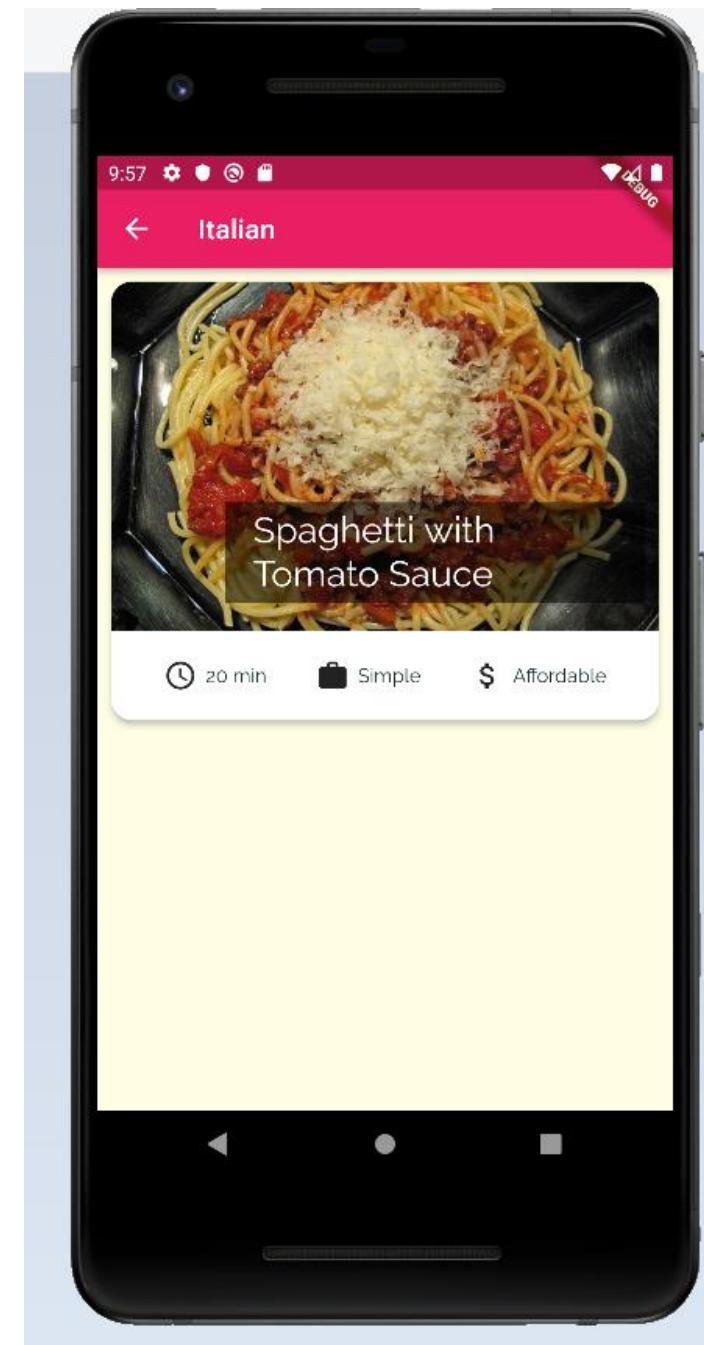
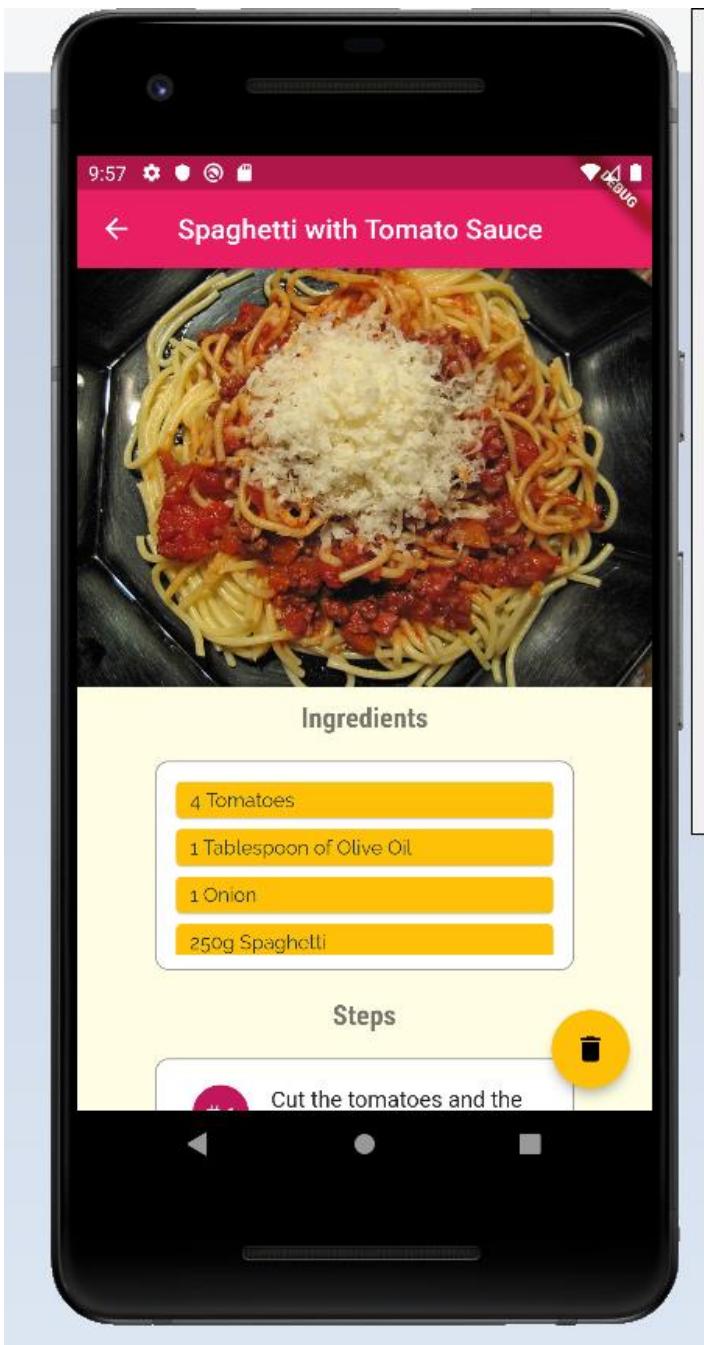
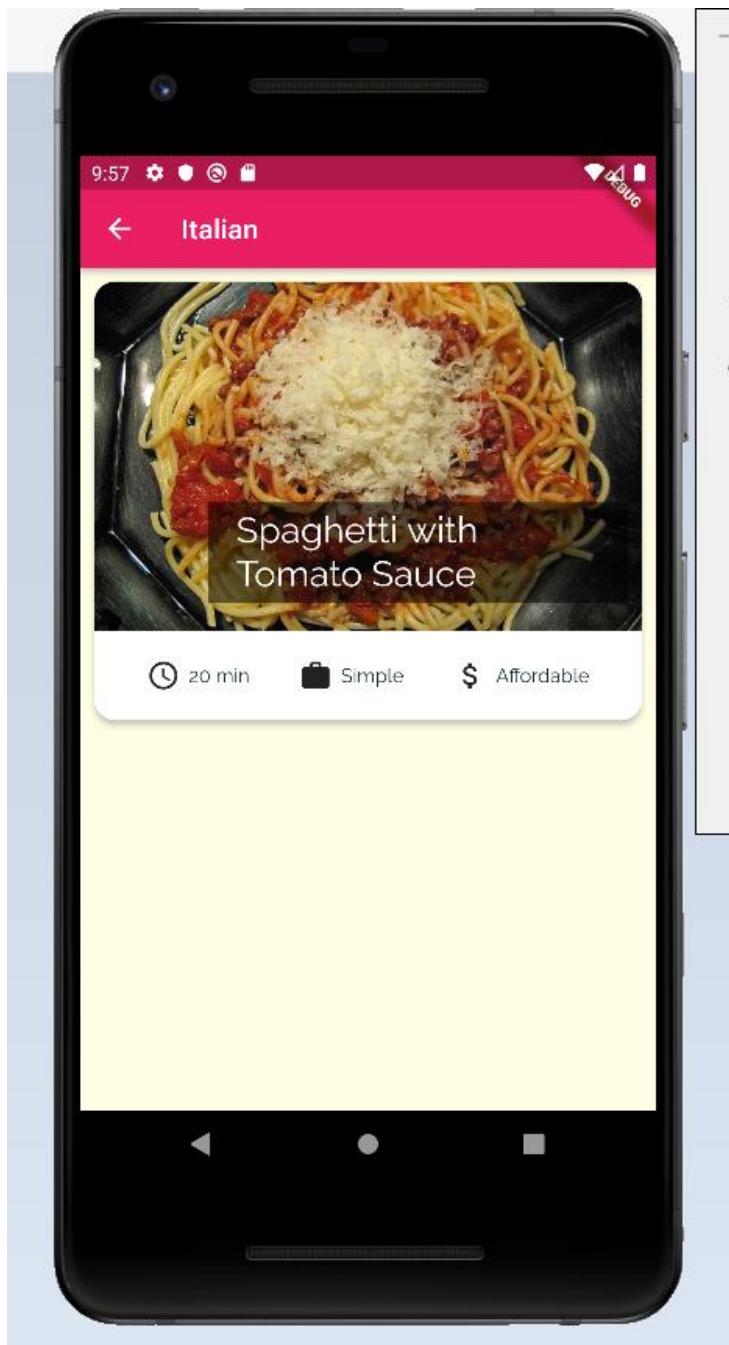
OPEN EDITORS tabs_screen.dart lib... main_drawer.dart lib... meal_detail_screen.... meal_detail_screen.dart main.dart lib filters_screen.dart lib...

MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.... category_meals_sc... favorites_screen.d... filters_screen.dart meal_detail_scre... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test

widgets\meal_detail_screen.dart

```
80     Divider()
81   ],
82 ),
83 itemCount: selectedMeal.steps.length,
84 ),
85 ),
86 ],
87 ),
88 ),
89 floatingActionButton: FloatingActionButton(
90   child: Icon(
91     Icons.delete,
92   ),
93   onPressed: () {
94     Navigator.of(context).pop(mealId);
95   },
96 ),
97 );
98 }
99 }
100
```

Ln 97, Col 1 (203 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



File Edit Selection View Go Run Terminal Help meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail_screen. main.dart filters_screen.dart

OPEN EDITORS lib > widgets > meal_item.dart > MealItem > MealItem

MEALSAPP_07

- > assets
- > build
- > ios
- lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen....
 - category_meals_sc...
 - favorites_screen.d...
 - filters_screen.dart
 - meal_detail_scre...
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
 - .gitignore
- OUTLINE
- DEPENDENCIES

```
5
6 class MealItem extends StatelessWidget {
7   final String id;
8   final String title;
9   final String imageUrl;
10  final int duration;
11  final Complexity complexity;
12  final Affordability affordability;
13  final Function removeItem;
```

MealItem({
 @required this.id,
 @required this.title,
 @required this.imageUrl,
 @required this.affordability,
 @required this.complexity,
 @required this.duration,
 @required this.removeItem,
});

```
25  String get complexityText {  
    switch (complexity) {
```

widgets\meal_item.dart

Ln 22, Col 31 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help meal_item.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > widgets > meal_item.dart > MeallItem

meal_item.dart 1

MEALSAPP_07 .dart_tool .idea android assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_sc... favorites_screen.d... filters_screen.dart meal_detail_scree... tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart 1 dummy_data.dart main.dart

widgets\meal_item.dart

```
52     default:
53     return 'Unknown';
54 }
55 }

56
57 void selectMeal(BuildContext context) {
58   Navigator.of(context)
59     .pushNamed(
60       MealDetailScreen.routeName,
61       arguments: id,
62     )
63     .then((result) {
64       if (result != null) {
65         removeItem(result);
66       }
67     });
68 }

69
70 @override
71 Widget build(BuildContext context) {
72   return InkWell(
73     onTap: () => selectMeal(context),
```

Ln 69, Col 1 (262 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart X main.dart filters_screen.dart

lib > screens > category_meals_screen.dart > CategoryMealsScreen

```
1 import 'package:flutter/material.dart';
2 import '../widgets/meal_item.dart';
3
4 import '../dummy_data.dart';
5
6 class CategoryMealsScreen extends StatelessWidget {
7     static const routeName = '/category-meal';
8     // final String categoryId;
9     // final String categoryTitle;
10
11 // CategoryMealsScreen(this.categoryId, this.categoryTitle);
12
13 @override
14 Widget build(BuildContext context) {
15     final routeArgs =
16         ModalRoute.of(context).settings.arguments as Map<String, String>;
17     final categoryTitle = routeArgs['title'];
18     final categoryId = routeArgs['id'];
19     final categoryMeals = DUMMY_MEALS.where((meal) {
20         return meal.categories.contains(categoryId);
21     }).toList();
22 }
```

screens\categories_meals_screen.dart

Ln 6, Col 41 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** category_meals_screen.dart - mealsapp_07 - Visual Studio Code.
- Explorer View (Left):** Shows the project structure under MEALSAPP_07:
 - assets
 - build
 - ios
 - lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
 - OUTLINE
 - DEPENDENCIES
- Code Editor (Center):** Displays the Dart code for the CategoryMealsScreen class.

```
import 'package:flutter/material.dart';
import '../models/meal.dart';
import '../widgets/meal_item.dart';
import '../dummy_data.dart';

class CategoryMealsScreen extends StatefulWidget {
    static const routeName = '/category-meals';

    @override
    State<CategoryMealsScreen> createState() => _CategoryMealsScreenState();
}

class _CategoryMealsScreenState extends State<CategoryMealsScreen> {
    String categoryTitle;
    List<Meal> displayedMeals;
    var _loadedInitData = false;

    @override
    void initState(){
        super.initState();
    }
}
```
- Status Bar (Bottom):** Shows file information (Ln 45, Col 1 (761 selected)), encoding (UTF-8), and tools (Dart DevTools, Flutter: 2.5.3, Flutter Emulator (android-x86 emulator), Prettier).
- Bottom Right:** A yellow text overlay: "screens\categories_meals_screen.dart"

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart X main.dart filters_screen.dart

OPEN EDITORS lib > screens > category_meals_screen.dart > _CategoryMealsScreenState

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

```
23
24  @override
25  void didChangeDependencies() {
26    if (!_loadedInitData) {
27      final routeArgs =
28        ModalRoute.of(context).settings.arguments as Map<String, String>;
29      categoryTitle = routeArgs['title'];
30      final categoryId = routeArgs['id'];
31      displayedMeals = DUMMY_MEALS.where((meal) {
32        return meal.categories.contains(categoryId);
33      }).toList();
34      _loadedInitData = true;
35    }
36    super.didChangeDependencies();
37  }
38
39  void _removeMeal(String mealId) {
40    setState(() {
41      displayedMeals.removeWhere((meal) => meal.id == mealId);
42    });
43  }
44
```

screens\categories_meals_screen.dart

Ln 45, Col 1 (761 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help category_meals_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart X main.dart filters_screen.dart

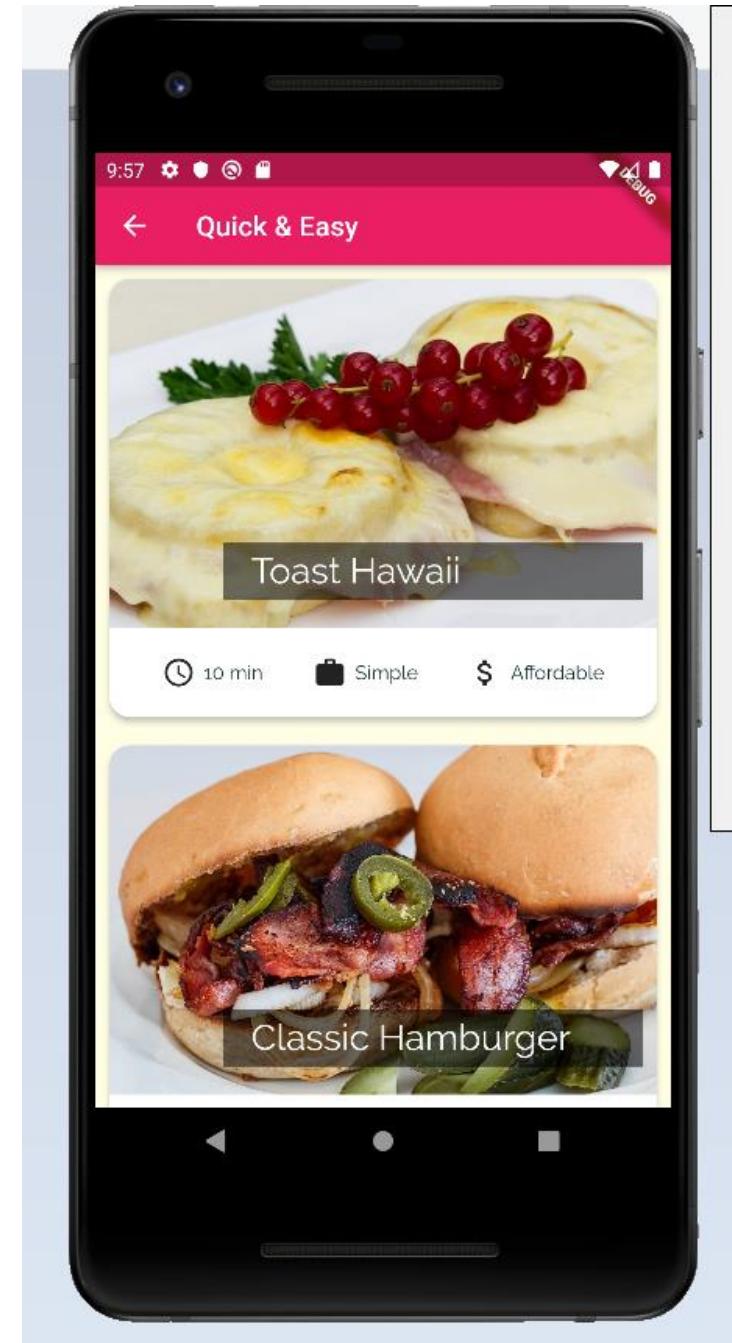
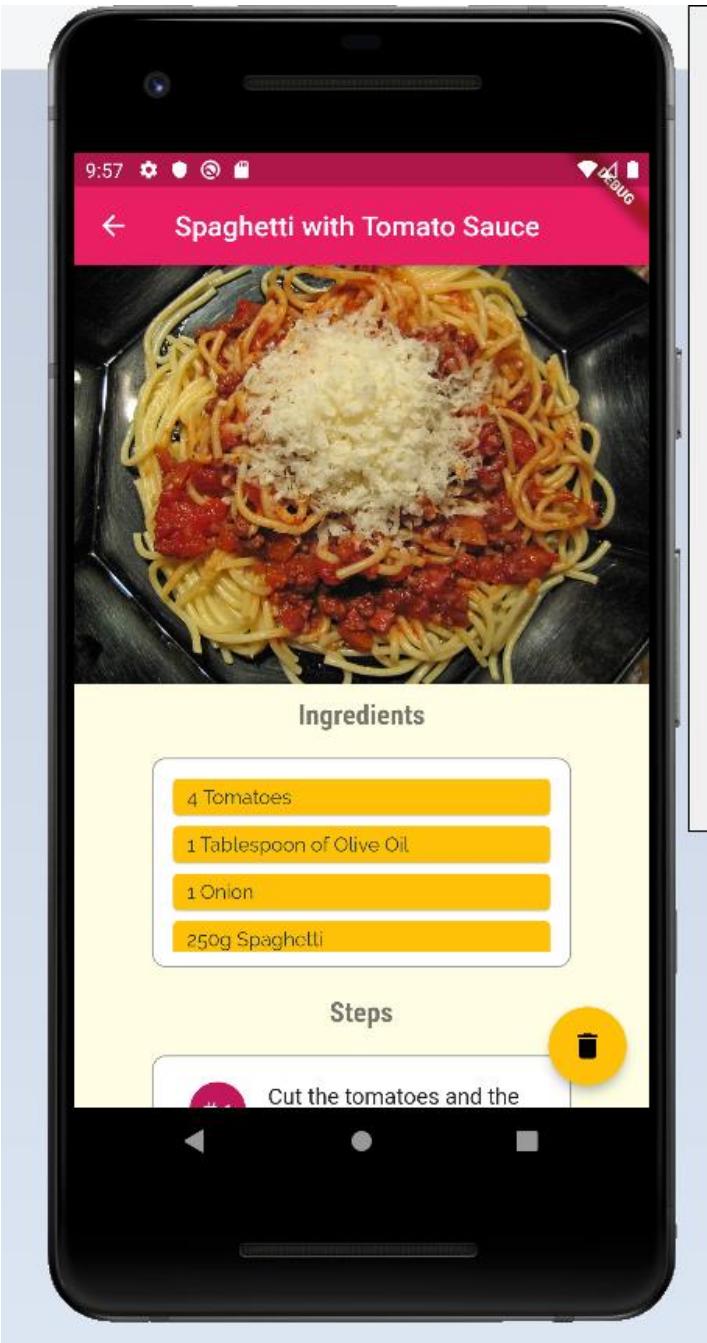
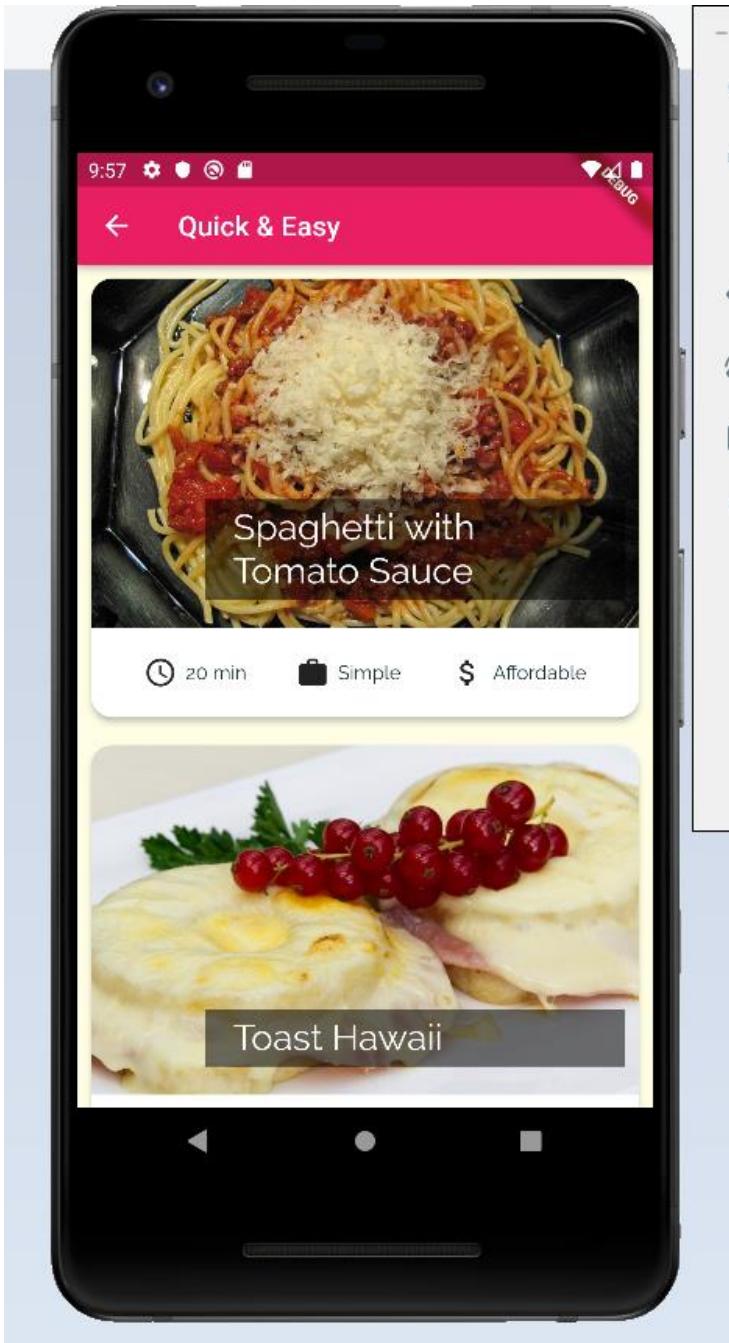
OPEN EDITORS lib > screens > category_meals_screen.dart > _CategoryMealsScreenState

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

```
44
45   @override
46   Widget build(BuildContext context) {
47     return Scaffold(
48       appBar: AppBar(
49         title: Text(categoryTitle),
50       ), // AppBar
51       body: ListView.builder(
52         itemBuilder: (ctx, index) {
53           return MealItem(
54             id: displayedMeals[index].id,
55             title: displayedMeals[index].title,
56             imageUrl: displayedMeals[index].imageUrl,
57             duration: displayedMeals[index].duration,
58             affordability: displayedMeals[index].affordability,
59             complexity: displayedMeals[index].complexity,
60             removeItem: _removeMeal,
61           ); // MealItem
62         },
63         itemCount: displayedMeals.length,
64       ), // ListView.builder
65     ); // Scaffold
```

screens\categories_meals_screen.dart

Ln 67, Col 1 (697 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



ADDING FILTER SWITCHES

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER

OPEN EDITORS

- tabs_screen.dart lib\screens
- main_drawer.dart lib\widgets
- meal_detail_screen.dart lib\sc...
- meal_item.dart lib\widgets
- category_meals_screen.dart li...
- main.dart lib
- filters_screen.dart lib\screens**

MEALSAPP_07

- > assets
- > build
- > ios
- > lib
 - > models
 - category.dart
 - meal.dart
 - > screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart**
 - meal_detail_screen.dart
 - tabs_screen.dart
 - > widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
 - > test
 - > web

OUTLINE

DEPENDENCIES

filters_screen.dart

lib > screens > filters_screen.dart > FiltersScreen

```
1 import 'package:flutter/material.dart';
2
3 import '../widgets/main_drawer.dart';
4
5 class FiltersScreen extends StatelessWidget {
6     static const routeName = '/filters' Convert to StatefulWidget
7
8     @override
9     Widget build(BuildContext context) {
10         return Scaffold(
11             appBar: AppBar(
12                 title: Text('Your Filters'),
13             ), // AppBar
14             drawer: MainDrawer(),
15             body: Center(
16                 child: Text('Filters!'),
17             ), // Center
18         ); // Scaffold
19     }
20 }
21
```

screens\filters_screen.dart

Ln 5, Col 37 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > screens > filters_screen.dart > _FiltersScreenState

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

```
import 'package:flutter/material.dart';
import '../widgets/main_drawer.dart';

class FiltersScreen extends StatefulWidget {
    static const routeName = '/filters';

    @override
    State<FiltersScreen> createState() => _FiltersScreenState();
}

class _FiltersScreenState extends State<FiltersScreen> {
    bool _glutenFree = false;
    bool _vegetarian = false;
    bool _vegan = false;
    bool _lactoseFree = false;

    Widget _buildSwitchListTile(
        String title,
        String description,
        bool currentValue,
        Function updateValue,
    ) {
        return SwitchListTile(
            title: Text(title),
            subtitle: Text(description),
            value: currentValue,
            onChanged: updateValue,
        );
    }

    void _setFilter(String filterType, bool isChecked) {
        setState(() {
            if (filterType == 'gluten-free') {
                _glutenFree = isChecked;
            } else if (filterType == 'vegetarian') {
                _vegetarian = isChecked;
            } else if (filterType == 'vegan') {
                _vegan = isChecked;
            } else if (filterType == 'lactose-free') {
                _lactoseFree = isChecked;
            }
        });
    }

    void _showFilterBottomSheet(BuildContext context) {
        showModalBottomSheet(
            context: context,
            builder: (bottomSheetContext) {
                return Container(
                    padding: EdgeInsets.all(10),
                    child: Column(
                        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                        children: [
                            Text('Set your meal filters'),
                            Row(
                                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                                children: [
                                    _buildSwitchListTile('Gluten-free', 'Exclude meals containing gluten', _glutenFree, _setFilter),
                                    _buildSwitchListTile('Vegetarian', 'Exclude non-vegetarian meals', _vegetarian, _setFilter),
                                ],
                            ),
                            Row(
                                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                                children: [
                                    _buildSwitchListTile('Vegan', 'Exclude non-vegan meals', _vegan, _setFilter),
                                    _buildSwitchListTile('Lactose-free', 'Exclude meals containing lactose', _lactoseFree, _setFilter),
                                ],
                            ),
                            ElevatedButton(
                                onPressed: () {
                                    Navigator.pop(context);
                                },
                                child: Text('Done'),
                            )
                        ],
                    ),
                );
            }
        );
    }

    @override
    void initState() {
        super.initState();
        _showFilterBottomSheet(context);
    }

    @override
    void dispose() {
        super.dispose();
    }
}
```

screens\filters_screen.dart

Ln 33, Col 1 (430 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS

- tabs_screen.dart lib\screens
- main_drawer.dart lib\widgets
- meal_detail_screen.dart lib\sc...
- meal_item.dart lib\widgets
- category_meals_screen.dart li...
- main.dart lib
- filters_screen.dart lib\screens

MEALSAPP_07

- > assets
- > build
- > ios
- > lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- > test
- > web

OUTLINE

DEPENDENCIES

filters_screen.dart

lib > screens > filters_screen.dart > _FiltersScreenState

```
21     bool currentValue,  
22     Function updateValue,  
23   ) {  
24     return SwitchListTile(  
25       title: Text(title),  
26       value: currentValue,  
27       subtitle: Text(  
28         description,  
29       ), // Text  
30       onChanged: updateValue,  
31     ); // SwitchListTile  
32   }  
33  
34   @override  
35   Widget build(BuildContext context) {  
36     return Scaffold(  
37       appBar: AppBar(  
38         title: Text('Your Filters'),  
39       ), // AppBar  
40       drawer: MainDrawer(),  
41       body: Column(  
42         children: <Widget>[
```

screens\filters_screen.dart

Ln 33, Col 1 (430 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > screens > filters_screen.dart > _FiltersScreenState > build

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

OUTLINE DEPENDENCIES

```
34 @override
35 Widget build(BuildContext context) {
36   return Scaffold(
37     appBar: AppBar(
38       title: Text('Your Filters'),
39     ), // AppBar
40     drawer: MainDrawer(),
41     body: Column(
42       children: <Widget>[
43         Container(
44           padding: EdgeInsets.all(20),
45           child: Text(
46             'Adjust your meal selection.',
47             style: Theme.of(context).textTheme.headline1,
48           ), // Text
49         ), // Container
50         Expanded(
51           child: ListView(
52             children: <Widget>[
53               _buildSwitchListTile(
54                 'Gluten-free',
55                 'Only include gluten-free meals.',
56               ),
57             ],
58           ),
59         ),
60       ],
61     ),
62   );
63 }
```

screens\filters_screen.dart

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > screens > filters_screen.dart > _FiltersScreenState > build

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

OUTLINE DEPENDENCIES

50 Expanded(51 child: ListView(52 children: <Widget>[53 _buildSwitchListTile(54 'Gluten-free', 55 'Only include gluten-free meals.', 56 _glutenFree, 57 (newValue) { 58 setState(59 () { 60 _glutenFree = newValue; 61 }, 62), 63), 64), 65], // <Widget>[] 66), // ListView 67), // Expanded 68], // <Widget>[] 69), // Column 70); // Scaffold 71 }

Expanded(child: ListView(children: <Widget>[_buildSwitchListTile('Gluten-free', 'Only include gluten-free meals.', _glutenFree, (newValue) { setState(() { _glutenFree = newValue; },),),], // <Widget>[]), // ListView), // Expanded], // <Widget>[]), // Column); // Scaffold }

9:57 Your Filters Adjust your meal selection. Gluten-free Only include gluten-free meals.

screens\filters_screen.dart

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS

- tabs_screen.dart lib\screens
- main_drawer.dart lib\widgets
- meal_detail_screen.dart lib\sc...
- meal_item.dart lib\widgets
- category_meals_screen.dart li...
- main.dart lib
- filters_screen.dart lib\screens**

MEALSAPP_07

- > assets
- > build
- > ios
- > lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart**
 - meal_detail_screen.dart
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
- > test
- > web

OUTLINE

DEPENDENCIES

filters_screen.dart X

lib > screens > filters_screen.dart > _FiltersScreenState > build

```
58 setState(  
59     () {  
60         _glutenFree = newValue;  
61     },  
62 );  
63 },  
64 ),  
65 _buildSwitchListTile(  
66     'Lactose-free',  
67     'Only include lactose-free meals.',  
68     _lactoseFree,  
69     (newValue) {  
70         setState(  
71             () {  
72                 _lactoseFree = newValue;  
73             },  
74         );  
75     },  
76 ),  
77 _buildSwitchListTile(  
78     'Vegetarian',  
79     'Only include vegetarian meals.',
```

Ln 65, Col 1 (1153 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

screens\filters_screen.dart

File Edit Selection View Go Run Terminal Help filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > screens > filters_screen.dart > _FiltersScreenState > build

MEALSAPP_07 assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

OUTLINE DEPENDENCIES

79 'Only include vegetarian meals.',
80 _vegetarian,
81 (newValue) {
82 setState(
83 () {
84 _vegetarian = newValue;
85 },
86);
87 },
88),
89 _buildSwitchListTile(
90 'Vegan',
91 'Only include vegan meals.',
92 _vegan,
93 (newValue) {
94 setState(
95 () {
96 _vegan = newValue;
97 },
98);
99 },
100),

9:57 Your Filters Adjust your meal selection.

Gluten-free Only include gluten-free meals.

Lactose-free Only include lactose-free meals.

Vegetarian Only include vegetarian meals.

Vegan Only include vegan meals.

filters_screen.dart

ADDING FILTERING LOGIC

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart

OPEN EDITORS lib > lib > MyApp

```
5 import 'screens/categories_screen.dart';
6 import 'screens/category_meals_screen.dart';
7 import 'screens/filters_screen.dart';
8
Run | Debug | Profile
9 void main() => runApp(MyApp());
10
11 class MyApp extends StatelessWidget {
12     @override
Convert to StatefulWidget
13     Widget build(BuildContext context) {
14         return MaterialApp(
15             title: 'DeliMeals',
16             theme: ThemeData(
17                 primarySwatch: Colors.pink,
18                 accentColor: Colors.amber,
19                 canvasColor: Color.fromRGBO(255, 254, 229, 1),
20                 fontFamily: 'Raleway',
21                 textTheme: ThemeData.light().textTheme.copyWith(
22                     bodyText1: TextStyle(
23                         color: Color.fromRGBO(20, 51, 51, 1),
24                     ), // TextStyle
25                     bodyText2: TextStyle(
```

main.dart

assets build ios lib models category.dart meal.dart screens categories_screen.dart category_meals_screen.dart favorites_screen.dart filters_screen.dart meal_detail_screen.dart tabs_screen.dart widgets category_item.dart main_drawer.dart meal_item.dart dummy_data.dart main.dart test web

OUTLINE

DEPENDENCIES

0 1 5 Debug my code Ln 11, Col 28 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

A screenshot of the Visual Studio Code interface showing a Dart file named `main.dart` from a project called `mealsapp_07`. The code defines a `MyApp` stateful widget and its `_AppState` state class. It includes a `_filters` map and lists for available and favorite meals, along with a `_setFilters` method for updating filters.

```
void main() => runApp(MyApp());  
  
class MyApp extends StatefulWidget {  
  @override  
  State<MyApp> createState() => _MyAppState();  
}  
  
class _AppState extends State<MyApp> {  
  Map<String, bool> _filters = {  
    'gluten': false,  
    'lactose': false,  
    'vegan': false,  
    'vegetarian': false,  
  };  
  List<Meal> _availableMeals = DUMMY_MEALS;  
  List<Meal> _favoriteMeals = [];  
  
  void _setFilters(Map<String, bool> filterData) {  
    setState(() {  
      _filters = filterData;  
  
      _availableMeals = DUMMY_MEALS.where((meal) {  
        return _filters[meal.type] == true;  
      }).toList();  
    });  
  }  
}
```

The code editor shows syntax highlighting for Dart, including blue for keywords and variables, green for comments, and red for errors. A yellow lightbulb icon is visible near the `_availableMeals` assignment. The status bar at the bottom indicates the current line (Ln 49), column (Col 1), character count (797 selected), and encoding (UTF-8). The title bar shows the file name `main.dart - mealsapp_07 - Visual Studio Code`.

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... nain_drawer.dart meal_detail_screen.dart meal_item.dart categories_screen.dart main.dart 2 filters_screen.dart

OPEN EDITORS 2 UNSAVED lib > main.dart > _MyAppState

31 _availableMeals = DUMMY_MEALS.where((meal) {

32 if (_filters['gluten'] && !meal.isGlutenFree) {

33 return false;

34 }

35 if (_filters['lactose'] && !meal.isLactoseFree) {

36 return false;

37 }

38 if (_filters['vegan'] && !meal.isVegan) {

39 return false;

40 }

41 if (_filters['vegetarian'] && !meal.isVegetarian) {

42 return false;

43 }

44 return true;

45 }).toList();

46 });

47 }

48 }

49

50 @override

51 Widget build(BuildContext context) {

52 return MaterialApp(

main.dart

Ln 49, Col 1 (797 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... nain_drawer.dart meal_detail_screen.dart meal_item.dart categories_screen.dart main.dart filters_screen.dart ...

OPEN EDITORS 3 UNSAVED

tabs_screen.dart lib\screens
main_drawer.dart lib\widgets
meal_detail_screen.dart lib\sc...
meal_item.dart lib\widgets
category_meals_screen.dart li...
categories_screen.dart lib\scre...
main.dart lib
filters_screen.dart lib\screens

MEALSAPP_07

assets
build
ios
lib
models
category.dart
meal.dart
screens
categories_screen.dart
category_meals_screen.dart
favorites_screen.dart
filters_screen.dart
meal_detail_screen.dart
tabs_screen.dart
widgets
category_item.dart
main_drawer.dart
meal_item.dart
dummy_data.dart
main.dart

test
OUTLINE
DEPENDENCIES

lib > main.dart > _MyAppState > build

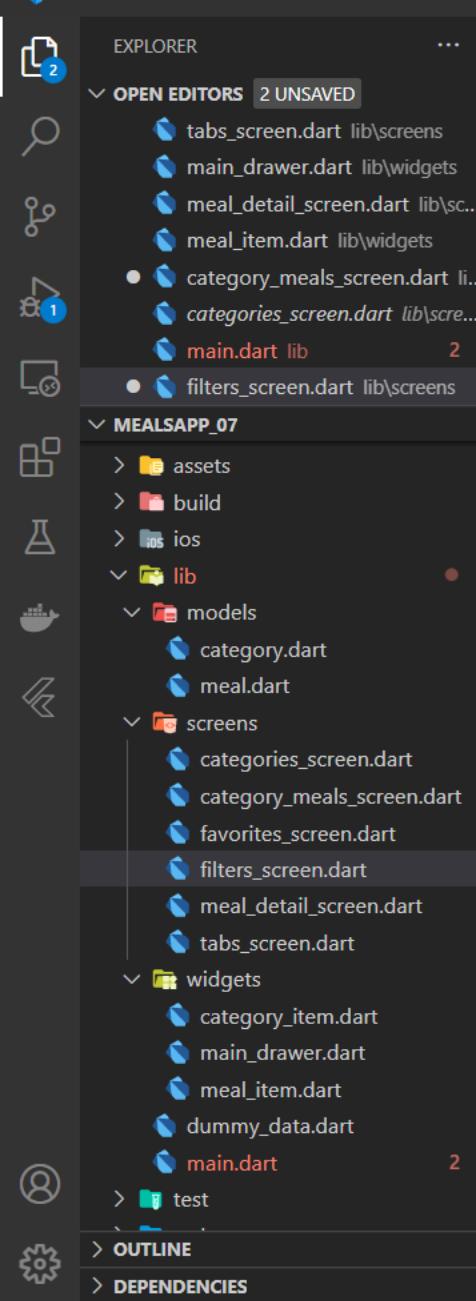
```
68     fontFamily: 'RobotoCondensed',
69     fontWeight: FontWeight.bold,
70   ), // TextStyle
71   ), // ThemeData
72   // home: CategoriesScreen(),
73   initialRoute: '/', // default is '/'
74   routes: {
75     '/': (ctx) => TabsScreen(),
76     CategoryMealsScreen.routeName: (ctx) => CategoryMealsScreen(_availableMeals),
77     MealDetailScreen.routeName: (ctx) => MealDetailScreen(),
78     FiltersScreen.routeName: (ctx) => FiltersScreen(_filters, _setFilters),
79   },
80   onGenerateRoute: (settings) {
81     print(settings.arguments);
82     // if (settings.name == '/meal-detail') {
83     //   return ...
84     // } else if (settings.name == '/something-else') {
85     //   return ...
86     // }
87     // return MaterialPageRoute(builder: (ctx) => CategoriesScreen());
88   },
89   onUnknownRoute: (settings) {
90     return MaterialPageRoute(
```

main.dart

Ln 79, Col 1 (271 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** filters_screen.dart - mealsapp_07 - Visual Studio Code
- Explorer Bar (Left):**
 - OPEN EDITORS: 2 UNSAVED (main_drawer.dart, meal_detail_screen.dart)
 - MEALSAPP_07 folder
 - assets
 - build
 - ios
 - lib
 - models (category.dart, meal.dart)
 - screens (categories_screen.dart, category_meals_screen.dart, favorites_screen.dart, filters_screen.dart, meal_detail_screen.dart, tabs_screen.dart)
 - widgets (category_item.dart, main_drawer.dart, meal_item.dart, dummy_data.dart, main.dart)
 - test
 - OUTLINE
 - DEPENDENCIES
- Editor Area (Center):** The code for `filters_screen.dart` is displayed. The file path is shown as lib > screens > filters_screen.dart > FiltersScreen. The code defines a `FiltersScreen` class that extends `StatefulWidget`. It includes static const `routeName`, final `Function saveFilters`, and final `Map<String, bool> currentFilters`. The constructor `FiltersScreen(this.currentFilters, this.saveFilters)` is highlighted. The `_FiltersScreenState` class extends `State<FiltersScreen>` and initializes boolean variables for glutenFree, vegetarian, vegan, and lactoseFree.
- Bottom Status Bar:** Lines 12, Col 1 (133 selected), Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Flutter Emulator (android-x86 emulator), Prettier, and a few other icons.



```
17 class _FiltersScreenState extends State<FiltersScreen> {
18     bool _glutenFree = false;
19     bool _vegetarian = false;
20     bool _vegan = false;
21     bool _lactoseFree = false;
22
23     @override
24     initState() {
25         _glutenFree = widget.currentFilters['gluten'];
26         _lactoseFree = widget.currentFilters['lactose'];
27         _vegetarian = widget.currentFilters['vegetarian'];
28         _vegan = widget.currentFilters['vegan'];
29         super.initState();
30     }
31
32     Widget _buildSwitchListTile(
33         String title,
34         String description,
35         bool currentValue,
36         Function updateValue,
37     ) {
38         return SwitchListTile(
```

screens\filters_screen.dart

File Edit Selection View Go Run Terminal Help

filters_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... nain_drawer.dart meal_detail_screen.dart meal_item.dart filters_screen.dart categories_screen.dart main.dart 2 filters_screen.dart

OPEN EDITORS 2 UNSAVED

lib > screens > filters_screen.dart > _FiltersScreenState > build

```
48 @override
49 Widget build(BuildContext context) {
50   return Scaffold(
51     appBar: AppBar(
52       title: Text('Your Filters'),
53       actions: <Widget>[
54         IconButton(
55           icon: Icon(Icons.save),
56           onPressed: () {
57             final selectedFilters = {
58               'gluten': _glutenFree,
59               'lactose': _lactoseFree,
60               'vegan': _vegan,
61               'vegetarian': _vegetarian,
62             };
63             widget.saveFilters(selectedFilters);
64           },
65         ) // IconButton
66       ], // <Widget>[]
67     ), // AppBar
68     drawer: MainDrawer(),
69     body: Column(
70       children: <Widget>[
```

screens\filters_screen.dart

Ln 64, Col 1 (52 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** category_meals_screen.dart - mealsapp_07 - Visual Studio Code
- Left Sidebar (Explorer):** Shows the project structure under MEALSAPP_07:
 - assets
 - build
 - ios
 - lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
 - test
 - web
- Center Area:** Displays the code for category_meals_screen.dart.

```
import 'package:flutter/material.dart';
import '../models/meal.dart';
import '../widgets/meal_item.dart';

class CategoryMealsScreen extends StatefulWidget {
    static const routeName = '/category-meals';

    final List<Meal> availableMeals;

    CategoryMealsScreen(this.availableMeals);

    @override
    State<CategoryMealsScreen> createState() => _CategoryMealsScreenState();
}

class _CategoryMealsScreenState extends State<CategoryMealsScreen> {
    String categoryTitle;
    List<Meal> displayedMeals;
    var _loadedInitData = false;

    @override
```
- Bottom Status Bar:** Ln 12, Col 1 (83 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier
- Bottom Right:** screens\category_meals_screen.dart

A screenshot of the Visual Studio Code interface showing the code editor with Dart code for a meal application. The code handles the initial state and dependency changes for a category screen.

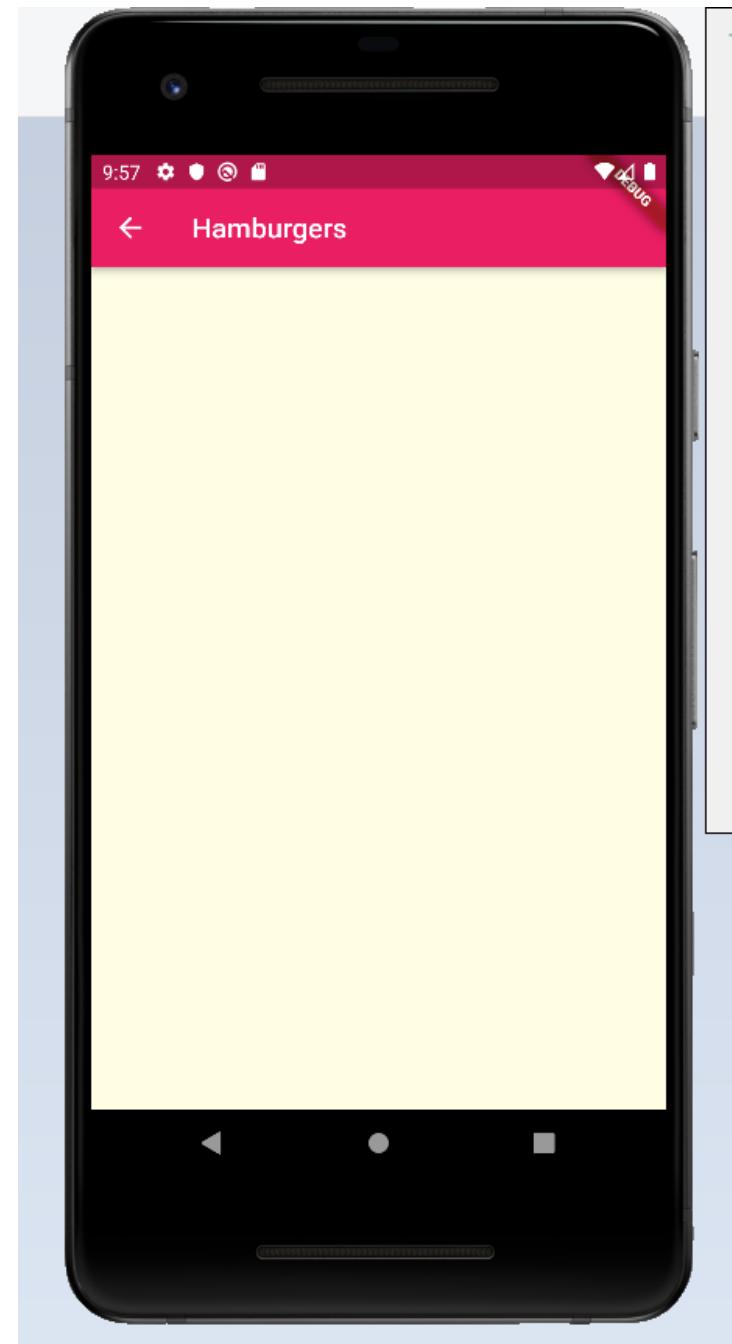
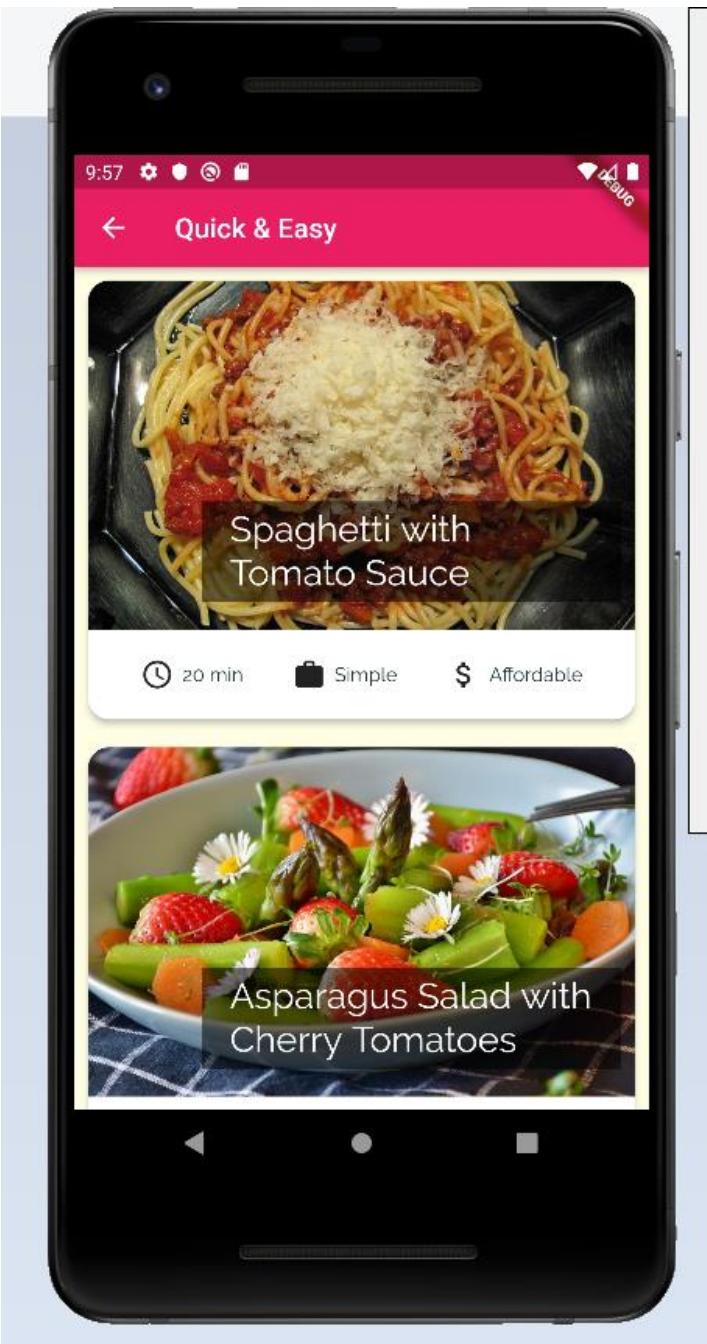
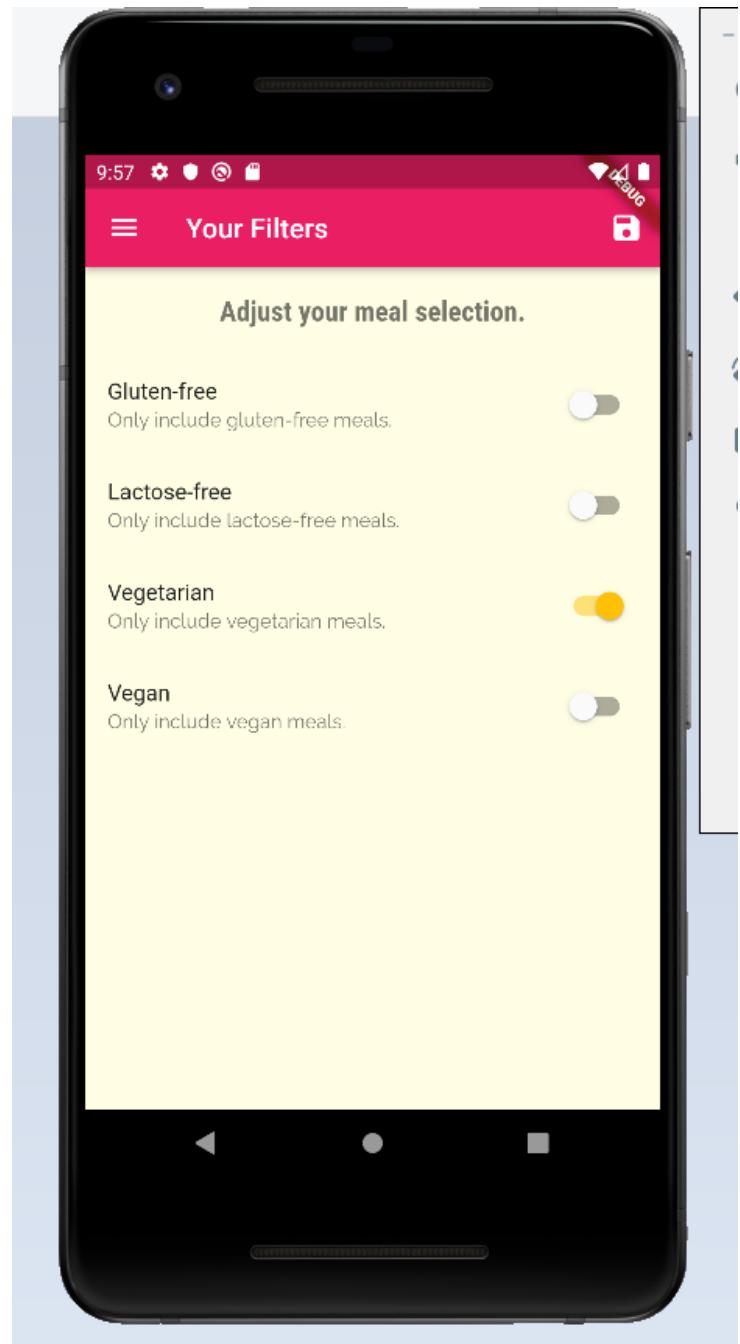
The code in the editor:

```
21 @override
22 void initState() {
23   super.initState();
24 }
25
26
27 @override
28 void didChangeDependencies() {
29   if (!_loadedInitData) {
30     final routeArgs =
31       ModalRoute.of(context).settings.arguments as Map<String, String>;
32     categoryTitle = routeArgs['title'];
33     final categoryId = routeArgs['id'];
34     displayedMeals = widget.availableMeals.where((meal) {
35       return meal.categories.contains(categoryId);
36     }).toList();
37     _loadedInitData = true;
38   }
39   super.didChangeDependencies();
40 }
41
42 void _removeMeal(String mealId) {
```

The code editor's status bar shows:

- Ln 35, Col 1 (61 selected)
- Spaces: 2
- UTF-8
- CRLF
- Dart
- Dart DevTools
- Flutter: 2.5.3
- Flutter Emulator (android-x86 emulator)
- Prettier

The title bar indicates the file is "category_meals_screen.dart - mealsapp_07 - Visual Studio Code".



ADDING THE MARK AS FAVORITE FEATURE

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** favorites_screen.dart - mealapp_07 - Visual Studio Code.
- Left Sidebar (Explorer):**
 - OPEN EDITORS: 1 UNSAVED
 - MEALSAPP_07
 - assets
 - build
 - ios
 - lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart**
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart
 - test
 - OUTLINE
 - DEPENDENCIES
 - Central Area:** The code editor displays the `favorites_screen.dart` file from the `lib/screens` directory. The file contains Dart code for a `FavoritesScreen` widget that lists favorite meals. A yellow annotation highlights the word `screens` in the `MealItem` constructor call at the bottom of the code.
 - Bottom Status Bar:** Ln 13, Col 24, Spaces: 2, UTF-8, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Flutter Emulator (android-x86 emulator), Prettier.
 - Bottom Taskbar:** Debug my code.

A screenshot of the Visual Studio Code interface showing a Dart file named `favorites_screen.dart` in the editor. The code implements a `FavoritesScreen` class that displays a list of favorite meals if there are any, or a centered message if there are none.

```
if (favoriteMeals.isEmpty) {
    return Center(
        child: Text('You have no favorites yet - start adding some!'),
    ); // Center
} else {
    return ListView.builder(
        itemBuilder: (ctx, index) {
            return MealItem(
                id: favoriteMeals[index].id,
                title: favoriteMeals[index].title,
                imageUrl: favoriteMeals[index].imageUrl,
                duration: favoriteMeals[index].duration,
                affordability: favoriteMeals[index].affordability,
                complexity: favoriteMeals[index].complexity,
            ); // MealItem
        },
        itemCount: favoriteMeals.length,
    ); // ListView.builder
}
```

The code editor shows the following details:

- File Path:** lib > screens > favorites_screen.dart > FavoritesScreen > build
- Editor Status:** 1 UNSAVED
- Code Line Numbers:** 13 to 34
- Code Content:** The code uses `ListView.builder` to build a list of `MealItem` widgets based on the `favoriteMeals` list. If the list is empty, it returns a centered text message.

The sidebar on the left shows the project structure under the `MEALSAPP_07` folder, including `assets`, `build`, `ios`, `lib` (which contains `models` and `screens`), `widgets`, and `test`.

The status bar at the bottom provides information about the code: Line 13, Column 24, Spaces: 2, CRLF, Dart, Dart DevTools, Flutter: 2.5.3, Flutter Emulator (android-x86 emulator), Prettier, and a search icon.

File Edit Selection View Go Run Terminal Help

meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS 2 UNSAVED

- tabs_screen.dart lib\screens 1
- main_drawer.dart lib\widgets
- meal_detail_screen.dart lib\screens 1
- meal_item.dart lib\widgets
- category_meals_screen.dart lib\... 1
- main.dart lib 1
- filters_screen.dart lib\screens
- favorites_screen.dart lib\screens

MEALSAPP_07

- > assets
- > build
- > ios
- > lib
- > models
 - category.dart
 - meal.dart
- > screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart 1
- > widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart 1
- > test

lib > screens > meal_detail_screen.dart > MealDetailScreen

```
1 import 'package:flutter/material.dart';
2
3 import '../dummy_data.dart';
4
5 class MealDetailScreen extends StatelessWidget {
6     static const routeName = '/meal-detail';
7
8     final Function toggleFavorite;
9     final Function isFavorite;
10
11     MealDetailScreen(this.toggleFavorite, this.isFavorite);
12
13     Widget buildSectionTitle(BuildContext context, String text) {
14         return Container(
15             margin: EdgeInsets.symmetric(vertical: 10),
16             child: Text(
17                 text,
18                 style: Theme.of(context).textTheme.headline1,
19             ), // Text
20         ); // Container
21     }
22 }
```

screens\meal_detail_screen.dart

Ln 12, Col 1 (125 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help meal_detail_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS 1 UNSAVED

- tabs_screen.dart 1
- main_drawer.dart
- meal_detail_screen.dart
- meal_item.dart
- category_meals_screen.dart
- main.dart 1
- filters_screen.dart
- favorites_screen.dart

MEALSAPP_07

- > assets
- > build
- > ios
- > lib
 - models
 - category.dart
 - meal.dart
 - screens
 - categories_screen.dart
 - category_meals_screen.dart
 - favorites_screen.dart
 - filters_screen.dart
 - meal_detail_screen.dart
 - tabs_screen.dart 1
 - widgets
 - category_item.dart
 - main_drawer.dart
 - meal_item.dart
 - dummy_data.dart
 - main.dart 1
- > test

OUTLINE

DEPENDENCIES

meal_detail_screen.dart - screens > meal_detail_screen.dart > MealDetailScreen > build

```
selectedMeal.steps[index],  
), // Text  
, // ListTile  
Divider()  
,  
, // Column  
itemCount: selectedMeal.steps.length,  
, // ListView.builder  
,  
, // <Widget>[]  
, // Column  
, // SingleChildScrollView  
floatingActionButton: FloatingActionButton(  
    child: Icon(  
        isFavorite(mealId) ? Icons.star : Icons.star_border,  
    ), // Icon  
    onPressed: () => toggleFavorite(mealId),  
), // FloatingActionButton  
, // Scaffold  
};  
}  
}
```

screens\meal_detail_screen.dart

Ln 99, Col 1 (50 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ...

OPEN EDITORS 1 UNSAVED

lib > screens > tabs_screen.dart > TabsScreen

```
1 import 'package:flutter/material.dart';
2
3 import '../models/meal.dart';
4 import '../widgets/main_drawer.dart';
5 import './favorites_screen.dart';
6 import './categories_screen.dart';
7
8 class TabsScreen extends StatefulWidget {
9   final List<Meal> favoriteMeals;
10
11   TabsScreen(this.favoriteMeals);
12
13   @override
14   _TabsScreenState createState() => _TabsScreenState();
15 }
16
17 class _TabsScreenState extends State<TabsScreen> {
18   List<Map<String, Object>> _pages;
19   int _selectedPageIndex = 0;
20
21   @override
22   void initState() {
```

screens\tabs_screen.dart

Ln 13, Col 1 (74 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help tabs_screen.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart X main_drawer.dart meal_detail.dart _TabsScreenState category_meals_screen.dart main.dart filters_screen.dart > screens > tabs_screen.dart > _TabsScreenState

16
17 class _TabsScreenState extends State<TabsScreen> {
18 List<Map<String, Object>> _pages;
19 int _selectedPageIndex = 0;
20
21 @override
22 void initState(){
23 _pages = [
24 {
25 'page': CategoriesScreen(),
26 'title': 'Categories',
27 },
28 {
29 'page': FavoritesScreen(widget.favoriteMeals),
30 'title': 'Your Favorite',
31 },
32];
33 super.initState();
34 }
35
36 void _selectPage(int index) {
37 setState(() {

screens\tabs_screen.dart

Ln 35, Col 1 (356 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart ...

OPEN EDITORS 1 UNSAVED lib > main.dart > _MyAppState

50 void _toggleFavorite(String mealId) {
51 final existingIndex =
52 _favoriteMeals.indexWhere((meal) => meal.id == mealId);
53 if (existingIndex >= 0) {
54 setState(() {
55 _favoriteMeals.removeAt(existingIndex);
56 });
57 } else {
58 setState(() {
59 _favoriteMeals.add(
60 DUMMY_MEALS.firstWhere((meal) => meal.id == mealId),
61);
62 });
63 }
64 }
65
66 bool _isMealFavorite(String id) {
67 return _favoriteMeals.any((meal) => meal.id == id);
68 }
69
70 @override
71 Widget build(BuildContext context) {

main.dart

Ln 69, Col 1 (509 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help main.dart - mealsapp_07 - Visual Studio Code

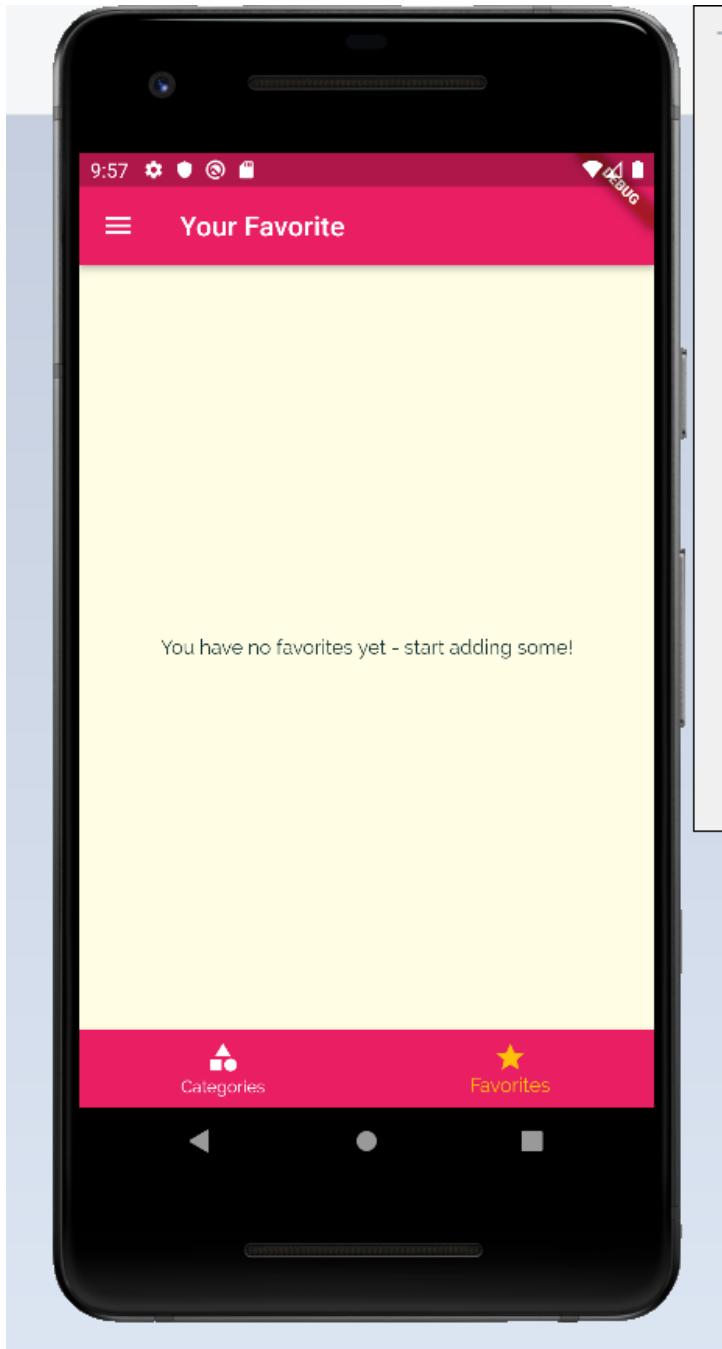
EXPLORER ... tabs_screen.dart main_drawer.dart meal_detail.dart category_meals_screen.dart main.dart filters_screen.dart ...

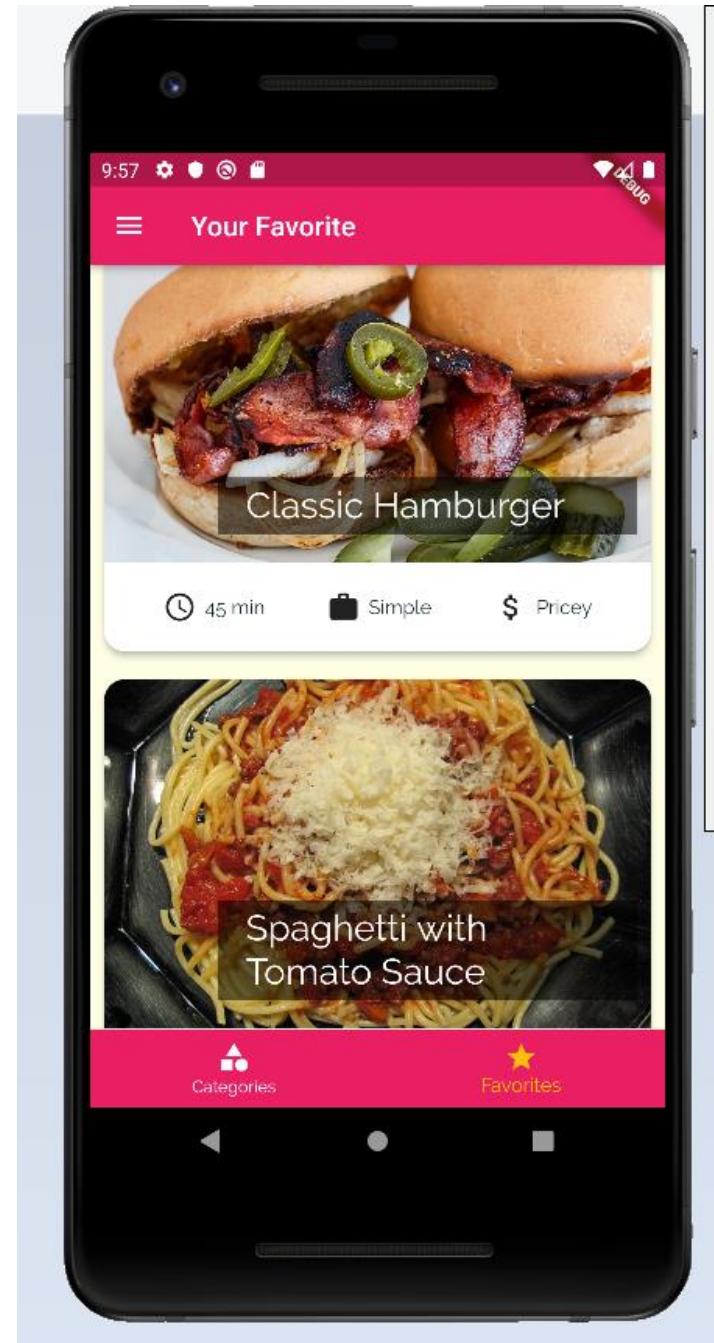
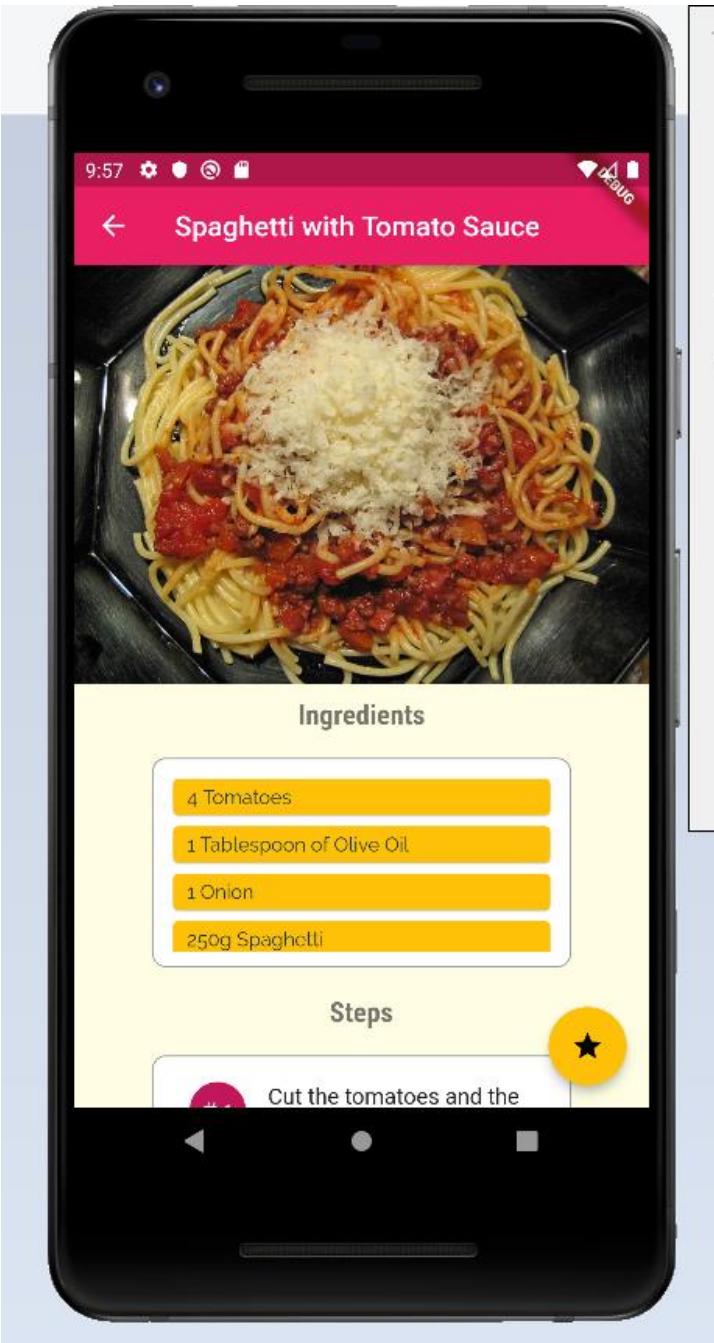
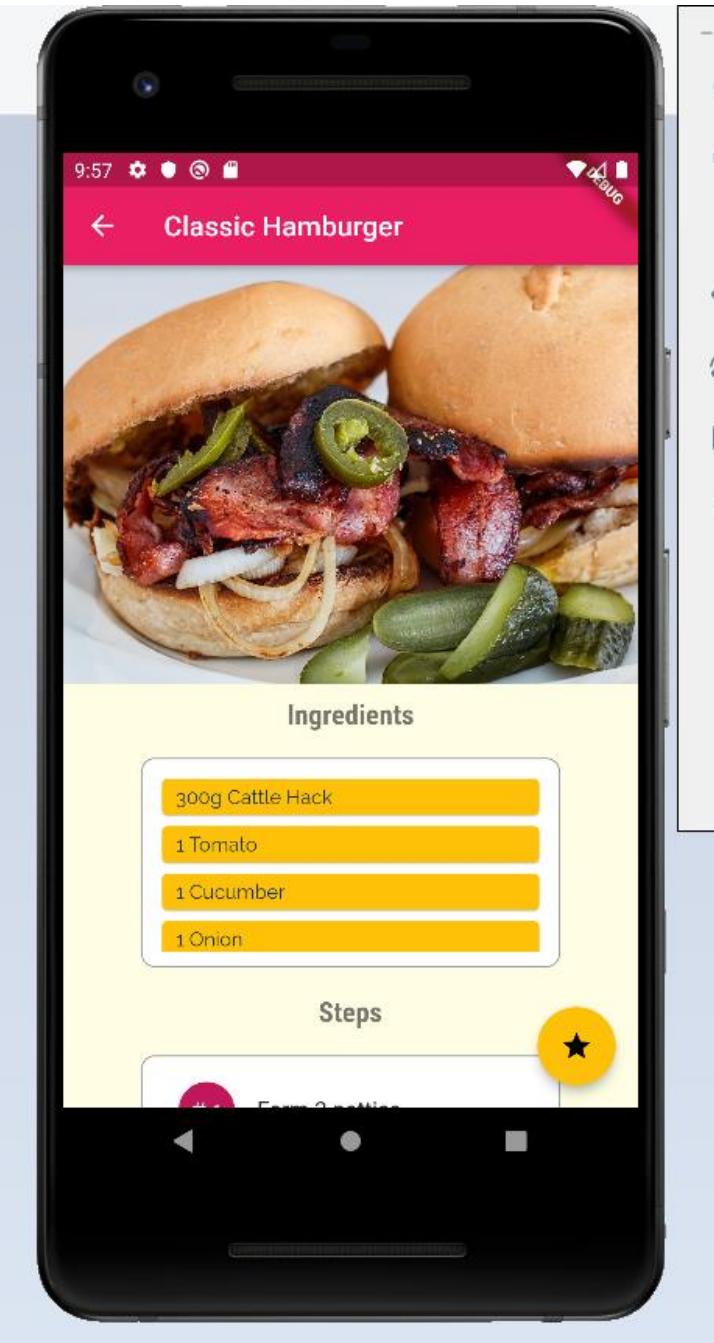
OPEN EDITORS lib > main.dart > _MyAppState > build

83 bodyText2: TextStyle(
84 color: Color.fromRGBO(20, 51, 51, 1),
85), // TextStyle
86 headline1: TextStyle(
87 fontSize: 20,
88 fontFamily: 'RobotoCondensed',
89 fontWeight: FontWeight.bold,
90), // TextStyle
91), // ThemeData
92 // home: CategoriesScreen(),
93 initialRoute: '/', // default is '/'
94 routes: {
95 '/': (ctx) => TabsScreen(_favoriteMeals),
96 CategoryMealsScreen.routeName: (ctx) =>
97 CategoryMealsScreen(_availableMeals),
98 MealDetailScreen.routeName: (ctx) =>
99 MealDetailScreen(_toggleFavorite, _isMealFavorite),
100 FiltersScreen.routeName: (ctx) => FiltersScreen(_filters, _setFilters),
101 },
102 onGenerateRoute: (settings) {
103 print(settings.arguments);
104 // if (settings.name == '/meal-detail') main.dart
105 // return ;

Ln 101, Col 1 (343 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

0 △ 1 ① 6 ↻ Debug my code





Module Summary

Navigation Basics

- “Screens” (or “Routes”, “Pages”) are just widgets!
- The Flutter Navigator allows you to switch (push / pop / replace) between pages
- You can use named routes or unnamed routes

Passing Data

- Data can be passed between pages via arguments (directly or via “arguments” key)
- Data can be passed back, too (read via Future)
- Data can be anything! (strings, ints, objects...)

Tabs

- You can add tabs in the AppBar or at the bottom of the page
- Tabs allow you to switch between different stacks (i.e. no popping)

Drawers & Dialogs

- Drawers (side menus) also allow you to switch between different stacks
- Drawers and other dialogs (e.g. alerts, modal bottom sheet) can be closed via Navigator.pop()