

WIDGETS GRIDVIEW – 57

```
main.dart x GridView.dart Scrolls.dart

lib > main.dart > % MyApp
1 import 'package:flutter/material.dart';
2
3 import 'package:mediaquery/GridView.dart';
4
5 Run | Debug | Profile
6 void main() => runApp(const MyApp());
7
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   @override
12   Widget build(BuildContext context) {
13     return MaterialApp(
14       debugShowCheckedModeBanner: false,
15       title: 'Material App',
16       home: GridElements(),
17     ); // MaterialApp // MaterialApp
18   }
19
20
21
22
```

```
main.dart x GridView.dart x Scrolls.dart x imagen_widget.dart

lib > GridView.dart > % GridElements > @ build
3 class GridElements extends StatelessWidget {
4   Widget build(BuildContext context) {
5     // PageView // PageView
29 body: Padding(
30   padding: const EdgeInsets.all(8.0),
31   child: GridView.builder(
32     itemCount: frutas.length,
33     gridDelegate: const SliverGridDelegateWithFixedCrossAxisCount(
34       crossAxisCount: 2,
35       crossAxisSpacing: 10,
36       mainAxisSpacing: 10,
37       childAspectRatio: 1,
38     ), // SliverGridDelegateWithFixedCrossAxisCount // SliverGridDelegateWithFixedCrossAxisCount
39     itemBuilder: (context, index) {
40       return GestureDetector(
41         onTap: () {
42           ScaffoldMessenger.of(context).showSnackBar(
43             SnackBar(content: Text('Seleccionaste: ${frutas[index]}')),
44           );
45         },
46         child: Container(
47           decoration: BoxDecoration(
48             color: Colors.teal.shade100,
49             borderRadius: BorderRadius.circular(12),
50             boxShadow: const [
51               BoxShadow(
52                 color: Colors.black26,
53                 blurRadius: 4,
54                 offset: Offset(2, 2),
55               ), // BoxShadow // BoxShadow
56             ], // BoxDecoration // BoxDecoration
57           child: Center(
58             child: Text(
59               frutas[index],
60               style: const TextStyle(
61                 fontSize: 18,
62                 fontWeight: FontWeight.bold,
63               ), // TextStyle // TextStyle
64             ), // Text // Text
65           ), // Center // Center
66         ), // Container // Container
67       ); // GestureDetector // GestureDetector
68     }, // GridView.builder // GridView.builder
69   ), // Padding // Padding
70 ), // Scaffold // Scaffold
71 ); // MaterialApp // MaterialApp
72
73
74
75
76
```

```
main.dart x GridView.dart x Scrolls.dart x imagen_widget.dart

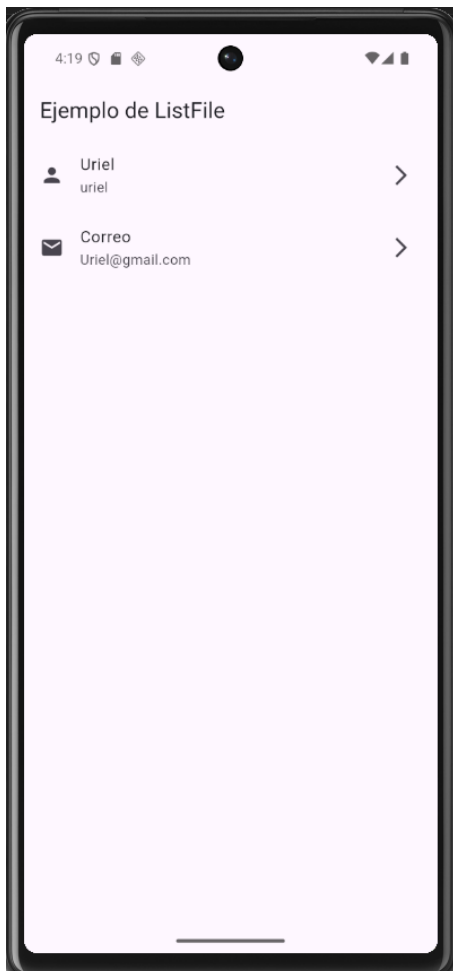
lib > GridView.dart > % GridElements > @ build
1 import 'package:flutter/material.dart'; // The file name "GridView.dart" isn't a lower_case_with_underscores identifier, if you change the file name to "gridview.dart", the code will still work.
2
3 class GridElements extends StatelessWidget {
4   const GridElements({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     final List<String> frutas = [
9       'Manzana',
10      'Banana',
11      'Naranja',
12      'Uva',
13      'Sandia',
14      'Mango',
15      'Fresa',
16      'Melón',
17      'Guayaba',
18      'Piña',
19      'Cereza',
20    ];
21
22    return MaterialApp(
23      title: 'Material App',
24      home: Scaffold(
25        appBar: AppBar(
26          title: const Text('Cuadrícula de frutas'),
27          backgroundColor: Colors.teal,
28        ), // AppBar // AppBar
29        body: Padding(
30          padding: const EdgeInsets.all(8.0),
31          child: GridView.builder(
32            itemCount: frutas.length,
33            gridDelegate: const SliverGridDelegateWithFixedCrossAxisCount(
34              crossAxisCount: 2,
35              crossAxisSpacing: 10,
36              mainAxisSpacing: 10,
37              childAspectRatio: 1,
38            ), // SliverGridDelegateWithFixedCrossAxisCount // SliverGridDelegateWithFixedCrossAxisCount
39            itemBuilder: (context, index) {
40              return GestureDetector(
41                onTap: () {
42                  ScaffoldMessenger.of(context).showSnackBar(
43                    SnackBar(content: Text('Seleccionaste: ${frutas[index]}')),
44                  );
45                },
46                child: Container(
47                  decoration: BoxDecoration(
48                    color: Colors.teal.shade100,
49                    borderRadius: BorderRadius.circular(12),
50                    boxShadow: const [
51                      BoxShadow(
52                        color: Colors.black26,
53                        blurRadius: 4,
54                        offset: Offset(2, 2),
55                      ), // BoxShadow // BoxShadow
56                    ], // BoxDecoration // BoxDecoration
57                  child: Center(
58                    child: Text(
59                      frutas[index],
60                      style: const TextStyle(
61                        fontSize: 18,
62                        fontWeight: FontWeight.bold,
63                      ), // TextStyle // TextStyle
64                    ), // Text // Text
65                  ), // Center // Center
66                ), // Container // Container
67              ); // GestureDetector // GestureDetector
68            }, // GridView.builder // GridView.builder
69          ), // Padding // Padding
70        ), // Scaffold // Scaffold
71      ); // MaterialApp // MaterialApp
72    );
73
74
75
76
```



WIDGETS LISTVIEW - 58

```
lib > main.dart > ...
1 import 'package:flutter/material.dart';
2 import 'package:mediaquery/ListFile.dart';
3
Run | Debug | Profile
4 void main() => runApp(const MyApp());
5
6 class MyApp extends StatelessWidget {
7   const MyApp({super.key});
8
9   @override
10  Widget build(BuildContext context) {
11    return const MaterialApp(
12      debugShowCheckedModeBanner: false,
13      home: Listfile(),
14    ); // MaterialApp
15  }
16 }
17
18
```

```
lib > ListFile.dart > Listfile > build
1 import 'package:flutter/material.dart'; The file name
2
3 class Listfile extends StatelessWidget {
4   const Listfile({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     return MaterialApp(
9       debugShowCheckedModeBanner: false,
10      title: 'Material App',
11      home: Scaffold(
12        appBar: AppBar(
13          title: const Text('Ejemplo de ListFile'),
14        ), // AppBar // AppBar
15        body: ListView(
16          children: const [
17            ListFile(
18              leading: Icon(Icons.person),
19              title: Text('Uriel'),
20              subtitle: Text('uriel'),
21              trailing: Icon(Icons.arrow_forward_ios),
22            ), // ListFile // ListFile
23            ListFile(
24              leading: Icon(Icons.email),
25              title: Text('Correo'),
26              subtitle: Text('Uriel@gmail.com'),
27              trailing: Icon(Icons.arrow_forward_ios),
28            ), // ListFile // ListFile
29          ],
30        ), // ListView // ListView
31      ), // Scaffold // Scaffold
32    ); // MaterialApp // MaterialApp
33  }
34 }
```



WIDGETS CARDS - 59

```
main.dart x Card.dart ListTile.dart Grid
lib > main.dart > ...
1 import 'package:flutter/material.dart';
2 import 'Card.dart';
3
Run | Debug | Profile
4 void main() => runApp(const MyApp());
5
6 class MyApp extends StatelessWidget {
7   const MyApp({super.key});
8
9   @override
10  Widget build(BuildContext context) {
11    return const MaterialApp(
12      debugShowCheckedModeBanner: false,
13      home: MyCard(),
14    ); // MaterialApp
15  }
16 }
17
```



```
main.dart Card.dart ListTile.dart GridView.dart Scrolls.dart in
lib > Card.dart > ...
1 import 'package:flutter/material.dart'; The file name 'Card.dart' isn't a lo
2
3 class MyCard extends StatelessWidget {
4   const MyCard({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     return MaterialApp(
9       title: 'Material App',
10      home: Scaffold(
11        appBar: AppBar(
12          title: const Text('Uso de Widget Card'),
13        ), // AppBar // AppBar
14        body: Padding(
15          padding: const EdgeInsets.all(16.0),
16          child: Card(
17            elevation: 5,
18            shape: RoundedRectangleBorder(
19              borderRadius: BorderRadius.circular(15),
20            ), // RoundedRectangleBorder // RoundedRectangleBorder
21            child: const Padding(
22              padding: EdgeInsets.all(20),
23              child: Column(
24                mainAxisAlignment: MainAxisAlignment.min,
25                crossAxisAlignment: CrossAxisAlignment.start,
26                children: [
27                  Text(
28                    'Aviso importante',
29                    style: TextStyle(
30                      fontSize: 20,
31                      fontWeight: FontWeight.bold
32                    ), // TextStyle
33                  ), // Text // Text
34                  SizedBox(height: 8),
35                  Text('Tienes actualizaciones pendientes en tu aplicación'),
36                ],
37              ), // Column // Column
38            ), // Padding // Padding
39          ), // Card // Card
40        ), // Padding // Padding
41      ), // Scaffold // Scaffold
42    ); // MaterialApp // MaterialApp
43  }
44 }
45
```

SCROLL VIEWS – 60

```
main.dart • Scrolls.dart
lib > main.dart > ...
1 import 'package:flutter/material.dart';
2 import 'Scrolls.dart';
3
Run | Debug | Profile
4 void main() {
5   runApp(MaterialApp(
6     debugShowCheckedModeBanner: false,
7     home: ClassScroll(),
8   )); // MaterialApp
9 }
10
```

```
main.dart • Scrolls.dart X
lib > Scrolls.dart > ClassScroll > build
3 class ClassScroll extends StatelessWidget {
7   Widget build(BuildContext context) {
94   },
95   ), // ListView.builder
96   ), // SizedBox
97
98   const SizedBox(height: 24),
99
100   // GridView de imágenes de libros
101   const Text(
102     'Galería de Libros',
103     style: TextStyle(
104       fontSize: 20,
105       fontWeight: FontWeight.bold,
106       color: Colors.deepPurple,
107     ), // TextStyle
108   ), // Text
109   const SizedBox(height: 16),
110
111   SizedBox(
112     height: 250,
113     child: GridView.count(
114       crossAxisCount: 3,
115       crossAxisSpacing: 8,
116       mainAxisSpacing: 8,
117       children: List.generate(
118         9,
119         (index) => Container(
120           color: Colors.primaryes[index % Colors.primaryes.length],
121           child: const Center(
122             child: Text(
123               'Imagen de libro',
124               style: TextStyle(
125                 color: Colors.white,
126                 fontWeight: FontWeight.bold,
127               ), // TextStyle
128               textAlign: TextAlign.center,
129             ), // Text
130           ), // Center
131         ), // Container
132       ), // List.generate
133     ), // GridView.count
134   ), // SizedBox
135   ), // Column
136   ), // SingleChildScrollView
137 ); // Scaffold
138 }
139 }
140 }
```

```
main.dart • Scrolls.dart X
lib > Scrolls.dart > ClassScroll > build
1 import 'package:flutter/material.dart'; // The file name 'Scrolls.dart' isn't a lower_case_with_underscores identifier. Try changing the name.
2
3 class ClassScroll extends StatelessWidget {
4   const ClassScroll({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     final List<Map<String, String>> libros = [
9       {'titulo': 'Cien años de soledad', 'autor': 'Gabriel García Márquez'},
10      {'titulo': 'Don Quijote de la Mancha', 'autor': 'Miguel de Cervantes'},
11      {'titulo': 'El principito', 'autor': 'Antoine de Saint-Exupéry'},
12      {'titulo': '1984', 'autor': 'George Orwell'},
13      {'titulo': 'La sombra del viento', 'autor': 'Carlos Ruiz Zafón'},
14      {'titulo': 'Rayuela', 'autor': 'Julio Cortázar'},
15      {'titulo': 'Crimen y castigo', 'autor': 'Fiodor Dostoyevski'},
16      {'titulo': 'Orgullo y prejuicio', 'autor': 'Jane Austen'},
17      {'titulo': 'Los juegos del hambre', 'autor': 'Suzanne Collins'},
18      {'titulo': 'Harry Potter y la piedra filosofal', 'autor': 'J.K. Rowling'},
19    ];
20
21    // QUITA el MaterialApp de aquí, solo devuelve Scaffold
22    return Scaffold(
23      appBar: AppBar(
24        title: const Text('Librería El Rincón de los Libros'),
25        backgroundColor: Colors.deepPurple,
26        foregroundColor: Colors.white,
27      ), // AppBar
28      body: SingleChildScrollView(
29        padding: const EdgeInsets.all(16.0),
30        child: Column(
31          crossAxisAlignment: CrossAxisAlignment.start,
32          children: [
33            // Card de información importante
34            Card(
35              elevation: 4,
36              margin: const EdgeInsets.only(bottom: 16),
37              child: Padding(
38                padding: const EdgeInsets.all(16.0),
39                child: Column(
40                  crossAxisAlignment: CrossAxisAlignment.start,
41                  children: [
42                    Row(
43                      children: const [
44                        Icon(Icons.campaign, color: Colors.deepPurple),
45                        SizedBox(width: 8),
46                        Text(
47                          'Información Importante',
48                          style: TextStyle(
49                            fontSize: 18,
50                            fontWeight: FontWeight.bold,
51                          ), // TextStyle
52                        ),
43
```

