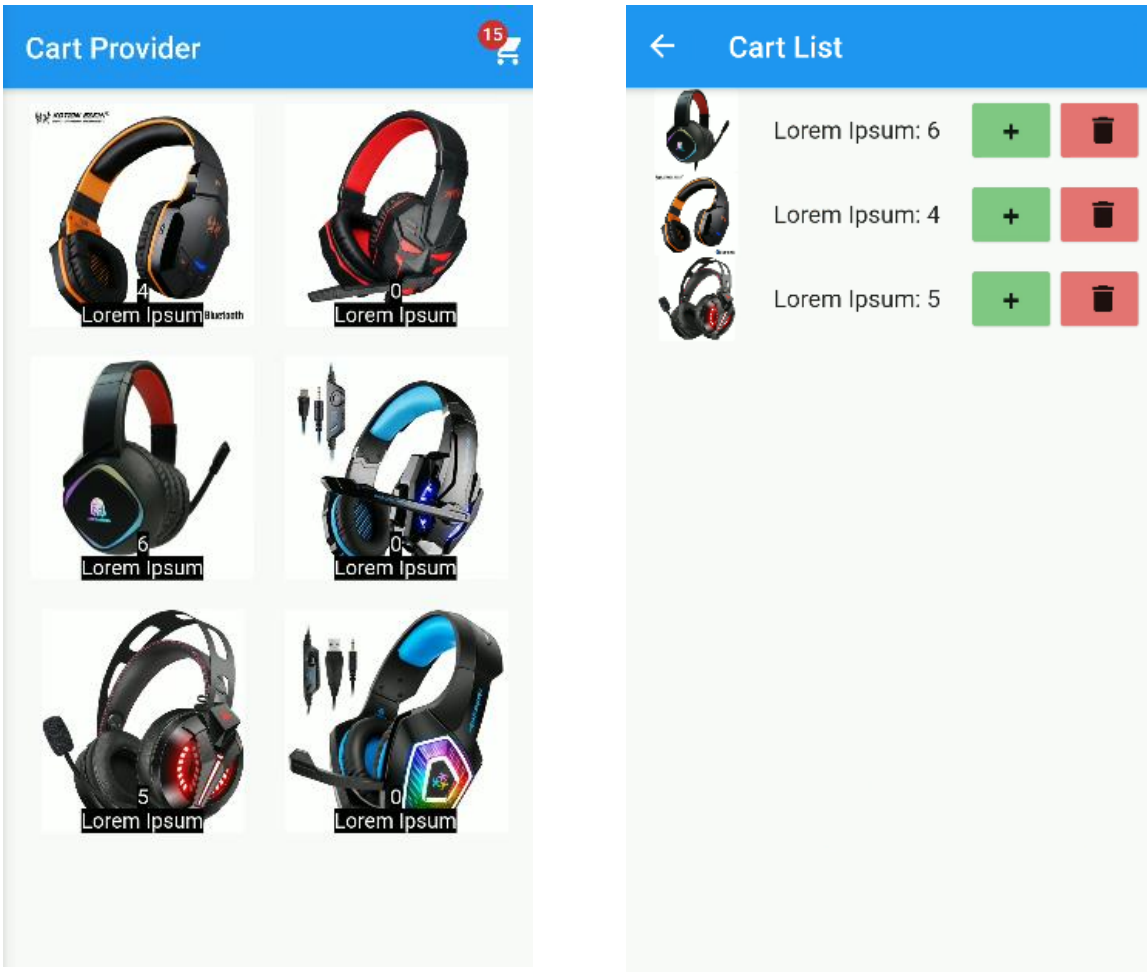


Shopping Cart Menggunakan State Management Provider



Kegunaan State Management adalah untuk memisahkan antara file logic dan file UI sehingga tidak tercampur dan memudahkan dalam maintenance.

Pada pubspec.yaml:

- Tambahkan package provider

Code:

1. Main

```
1 import 'package:flutter/material.dart';
2 import 'package:provider/provider.dart';
3 import './src/provider/cart_provider.dart';
4 import './src/views/homepage.dart';
5
6 void main() => runApp(MyApp());
7
8 class MyApp extends StatelessWidget {
9   @override
10  Widget build(BuildContext context) {
11    return ChangeNotifierProvider<CartProvider>(
12      create: (_) => CartProvider(),
13      child: MaterialApp(
14        debugShowCheckedModeBanner: false,
15        home: Homescreen(),
16      ), // MaterialApp
17    ); // ChangeNotifierProvider
18  }
19 }
```

2. Logic

```
1 import 'package:flutter/material.dart';
2
3 class CartProvider extends ChangeNotifier {
4   Map<int, int> _cart = {};
5   Map<int, int> get cart => _cart;
6
7   void addToCart(index) {
8     if (_cart.containsKey(index)) {
9       _cart[index] += 1;
10    } else {
11      _cart[index] = 1;
12    }
13    // _cart[index] = 1;
14    notifyListeners();
15  }
16
17   void reduceItem(index) {
18     if (_cart.containsKey(index) && _cart[index] > 1) {
19       _cart[index] -= 1;
20     } else {
21       clear(index);
22     }
23     notifyListeners();
24  }
25
26   void clear(index) {
27     if (_cart.containsKey(index)) {
28       _cart.remove(index);
29       notifyListeners();
30     }
31   }
32 }
33 }
```

2. UI

2.1.Homepage

```
1 import 'package:flutter/material.dart';
2 import 'package:provider/provider.dart';
3 import './my_unit_list.dart';
4 import './provider/cart_provider.dart';
5 import './src/models/unit_list.dart';
6
7 class Homescreen extends StatefulWidget {
8   @override
9   _HomescreenState createState() => _HomescreenState();
10 }
11
12 class _HomescreenState extends State<Homescreen> {
13   @override
14   Widget build(BuildContext context) {
15     var bloc = Provider.of<CartProvider>(context);
16     var cart = bloc.cart;
17
18     int totalCount = 0;
19
20     if (cart.length > 0) {
21       totalCount = cart.values.reduce((a, b) => a + b);
22     }
23
24     return Scaffold(
25       appBar: AppBar(
26         title: Text("Cart Provider"),
27         actions: <Widget>[
28           Padding(
29             padding: const EdgeInsets.all(10.0),
30             child: Container(
31               height: 150.0,
32               width: 30.0,
33               child: GestureDetector(
34                 onTap: () => Navigator.push(
35                   context,
36                   MaterialPageRoute(builder: (context) => Cart()),
37                 ),
38               ), // GestureDetector
39             ), // Container
40           ), // Padding
41         ], // List.generate
42       ), // Gridview.count
43     ); // Scaffold
44 }
```

```
37 ),
38 > child: Stack( // Stack
39   ), // GestureDetector
40   ), // Container
41   ), // Padding
42 ], // <Widget>[]
43 ), // AppBar
44 body: Padding(
45   padding: const EdgeInsets.symmetric(horizontal: 10.0),
46   child: GridView.count(
47     crossAxisCount: 2,
48     children: List.generate(
49       units.length,
50       (index) {
51         Unit unit = units[index];
52         return Padding(
53           padding: const EdgeInsets.symmetric(vertical: 10.0),
54           child: GestureDetector(
55             onTap: () => bloc.addToCart(index),
56             child: Container(
57               height: 200.0,
58               width: 200.0,
59               decoration: BoxDecoration(
60                 borderRadius: BorderRadius.circular(12.0),
61                 image: DecorationImage(
62                   image: AssetImage(unit.img),
63                   fit: BoxFit.fitHeight,
64                 ), // DecorationImage
65               ), // BoxDecoration
66             ), // GestureDetector
67           ), // Column
68         ), // Container
69       ), // GestureDetector
70     ); // Padding
71   ), // List.generate
72 ), // Gridview.count
73 ), // Padding
74 ), // Scaffold
75 )
```

2.2.Cart List

```
1 import 'package:flutter/material.dart';
2 import 'package:provider/provider.dart';
3 import '../provider/cart_provider.dart';
4 import '../../src/models/unit_list.dart';
5
6 You, 18 minutes ago | 1 author (You)
7 class Cart extends StatelessWidget {
8   Cart({Key key}) : super(key: key);
9
10  @override
11  Widget build(BuildContext context) {
12    var bloc = Provider.of<CartProvider>(context);
13    var cart = bloc.cart;
14
15    return Scaffold(
16      appBar: AppBar(
17        title: Text("Cart List"),
18      ), // AppBar
19      body: ListView.builder(
20        itemCount: cart.length,
21        itemBuilder: (context, index) {
22          int giftIndex = cart.keys.toList()[index];
23          int count = cart[giftIndex];
24          Unit unit = units[giftIndex];
25
26          return ListTile(
27            leading: Container(
28              height: 70.0,
29              width: 70.0,
30              decoration: BoxDecoration( // BoxDecoration
31                // Container
32              ), // Container
33            title: Text("${unit.name}: $count"),
34            trailing: Container(
35              width: 110.0,
36              child: Row(
37                mainAxisAlignment: MainAxisAlignment.end,
38                children: <Widget>[
39                  Expanded(
40                    flex: 1,
```

```
25     return ListTile(
26       leading: Container(
27         height: 70.0,
28         width: 70.0,
29       ), // Container
30       title: Text("${unit.name}: $count"),
31       trailing: Container(
32         width: 110.0,
33         child: Row(
34           mainAxisAlignment: MainAxisAlignment.end,
35           children: <Widget>[
36             Expanded(
37               flex: 1,
38             ), // Expanded
39             child: RaisedButton( // RaisedButton
40               // Expanded
41             ), // Expanded
42             SizedBox(width: 7.0),
43             Expanded(
44               flex: 1,
45             ), // Expanded
46             child: RaisedButton( // RaisedButton
47               // Expanded
48             ), // Expanded
49           ], // <Widget>[]
50         ), // Row
51       ), // Container
52     ); // ListTile
53   },
54 ); // ListView.builder
55 ); // Scaffold
56 }
```