

**LAPORAN PRAKTIKUM
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL IV
ANTARMUKA PENGGUNA**



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PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
2024

GUIDED

1. File main.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:pertemuan_4/list_view.dart';
3
4
5 void main() {
6   runApp(const MyApp());
7 }
8
9 class MyApp extends StatelessWidget {
10   const MyApp({super.key});
11
12   @override
13   Widget build(BuildContext context) {
14     return MaterialApp(
15       title: 'Flutter Demo',
16       theme: ThemeData(
17         colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
18         useMaterial3: true,
19       ),
20       home: const LatihanListView(),
21     );
22   }
23 }
24
25 class MyHomePage extends StatefulWidget {
26   const MyHomePage({super.key, required this.title});
27
28   final String title;
29
30   @override
31   State<MyHomePage> createState() => _MyHomePageState();
32 }
33
34 class _MyHomePageState extends State<MyHomePage> {
35   // int _counter = 0;
36
37   // void _incrementCounter() {
38   //   setState(() {
39   //     _counter++;
40   //   });
41   // }
42
43   @override
44   Widget build(BuildContext context) {
45     return Scaffold(
46       // appBar: AppBar(
47       //   backgroundColor: Theme.of(context).colorScheme.inversePrimary,
48       //   title: Text(widget.title),
49       // ),
50       body: GridView.count(
51         crossAxisCount: 2,
52         mainAxisSpacing: 10,
53         crossAxisSpacing: 10,
54         padding: const EdgeInsets.all(16.0),
55         children: [
56           Container(
57             padding: const EdgeInsets.all(8),
58             child: Center(
59               child: Column(
60                 mainAxisAlignment: MainAxisAlignment.center,
61                 children: [
62                   Icon(Icons.access_alarm_rounded),
63                   SizedBox(
64                     height: 24,
65                   ),
66                   const Text("Set My Alarm"),
67                 ],
68               ),
69             ),
70             color: Colors.amber,
71           ),
72         ],
73       ),
74     );
75   }
76 }
```

```

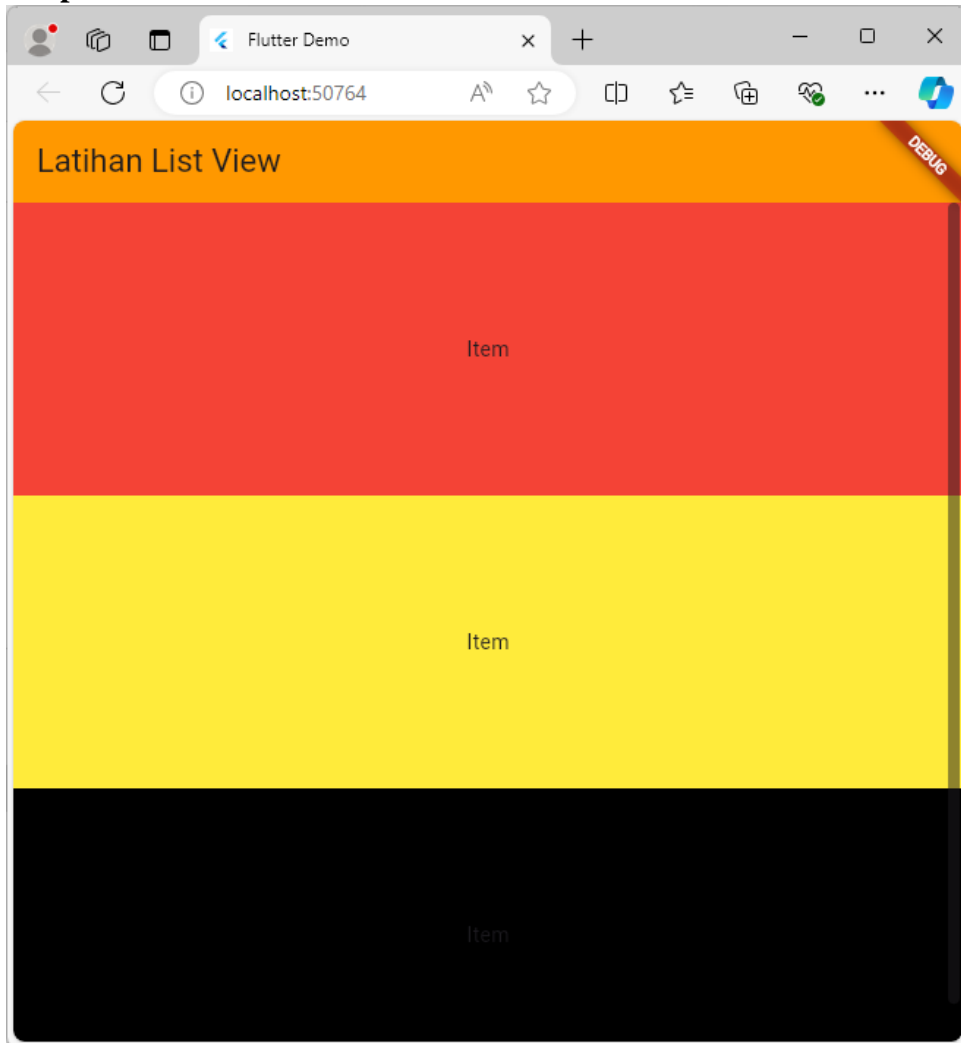
1      Container(
2        padding: const EdgeInsets.all(8),
3        child: Center(
4          child: Column(
5            mainAxisAlignment: MainAxisAlignment.center,
6            children: [
7              Icon(Icons.account_balance_wallet_outlined),
8              SizedBox(
9                height: 24,
10              ),
11              const Text("My Balance"),
12            ],
13          ),
14        ),
15        color: Colors.blue,
16      ),
17      Container(
18        padding: const EdgeInsets.all(8),
19        child: Center(
20          child: Column(
21            mainAxisAlignment: MainAxisAlignment.center,
22            children: [
23              Icon(Icons.add_chart_outlined),
24              SizedBox(
25                height: 24,
26              ),
27              const Text("My Chart"),
28            ],
29          ),
30        ),
31        color: Colors.lightGreen,
32      ),
33      Container(
34        padding: const EdgeInsets.all(8),
35        child: Center(
36          child: Column(
37            mainAxisAlignment: MainAxisAlignment.center,
38            children: [
39              Icon(Icons.ad_units_outlined),
40              SizedBox(
41                height: 24,
42              ),
43              const Text("My Units"),
44            ],
45          ),
46        ),
47        color: Colors.blueGrey,
48      ),
49      Container(
50        padding: const EdgeInsets.all(8),
51        child: Center(
52          child: Column(
53            mainAxisAlignment: MainAxisAlignment.center,
54            children: [
55              Icon(Icons.add_a_photo_outlined),
56              SizedBox(
57                height: 24,
58              ),
59              const Text("My Gallery"),
60            ],
61          ),
62        ),
63        color: Colors.teal,
64      ),
65      Container(
66        padding: const EdgeInsets.all(8),
67        child: Center(
68          child: Column(
69            mainAxisAlignment: MainAxisAlignment.center,
70            children: [
71              Icon(Icons.add_shopping_cart_outlined),
72              SizedBox(
73                height: 24,
74              ),
75              const Text("My Cart"),
76            ],
77          ),
78        ),
79        color: Colors.redAccent,
80      ),
81    ],
82  ),
83 );
84 }
85 }

```

File list_view.dart

```
1 import 'package:flutter/material.dart';
2
3 class LatihanListView extends StatelessWidget {
4   const LatihanListView({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     List<Widget> listContainer = [
9       Container(
10        height: 200,
11        width: 200,
12        color: Colors.red,
13        child: Center(
14          child: Text('Item'),
15        ),
16      ),
17      Container(
18        height: 200,
19        width: 200,
20        color: Colors.yellow,
21        child: Center(
22          child: Text('Item'),
23        ),
24      ),
25      Container(
26        height: 200,
27        width: 200,
28        color: Colors.black,
29        child: Center(
30          child: Text('Item'),
31        ),
32      ),
33      Container(
34        height: 200,
35        width: 200,
36        color: Colors.blue,
37        child: Center(
38          child: Text('Item'),
39        ),
40      ),
41      Container(
42        height: 200,
43        width: 200,
44        color: Colors.pink,
45        child: Center(
46          child: Text('Item'),
47        ),
48      ),
49    ];
50    return Scaffold(
51      appBar: AppBar(
52        title: Text('Latihan List View'),
53        backgroundColor: Colors.orange,
54      ),
55      body: ListView.builder(
56        itemCount: 3,
57        itemBuilder: (context, index) {
58          return listContainer[index];
59        },
60      )
61
62      // ListView(
63      //   // scrollDirection: Axis.horizontal,
64      //   // children: listContainer,
65      // ),
66    );
67  }
68 }
```

Output :



Penjelasan :

main.dart

1. Fungsi MyApp: Ini adalah aplikasi utama yang menjalankan LatihanListView sebagai halaman pertama aplikasi.
2. Widget MyHomePage: Pada bagian ini, sebuah GridView ditampilkan dengan 2 kolom, dan masing-masing item berisi ikon dan teks yang disusun secara vertikal di dalam Container.
3. Widget GridView.count: Ini digunakan untuk menampilkan beberapa widget dalam bentuk grid dengan jumlah kolom yang ditentukan oleh crossAxisCount. Setiap Container berisi ikon dan teks yang berpusat, menggunakan Center dan Column.

list_view.dart

1. Fungsi LatihanListView: Ini menampilkan sebuah halaman dengan judul "Latihan List View" dan menggunakan ListView.builder untuk menampilkan 3 item dari list listContainer yang berisi beberapa Container dengan warna dan ukuran yang berbeda.
2. ListView.builder: Digunakan untuk membangun item secara dinamis berdasarkan jumlah elemen yang ada di dalam list.

UNGUIDED

1. File main.dart

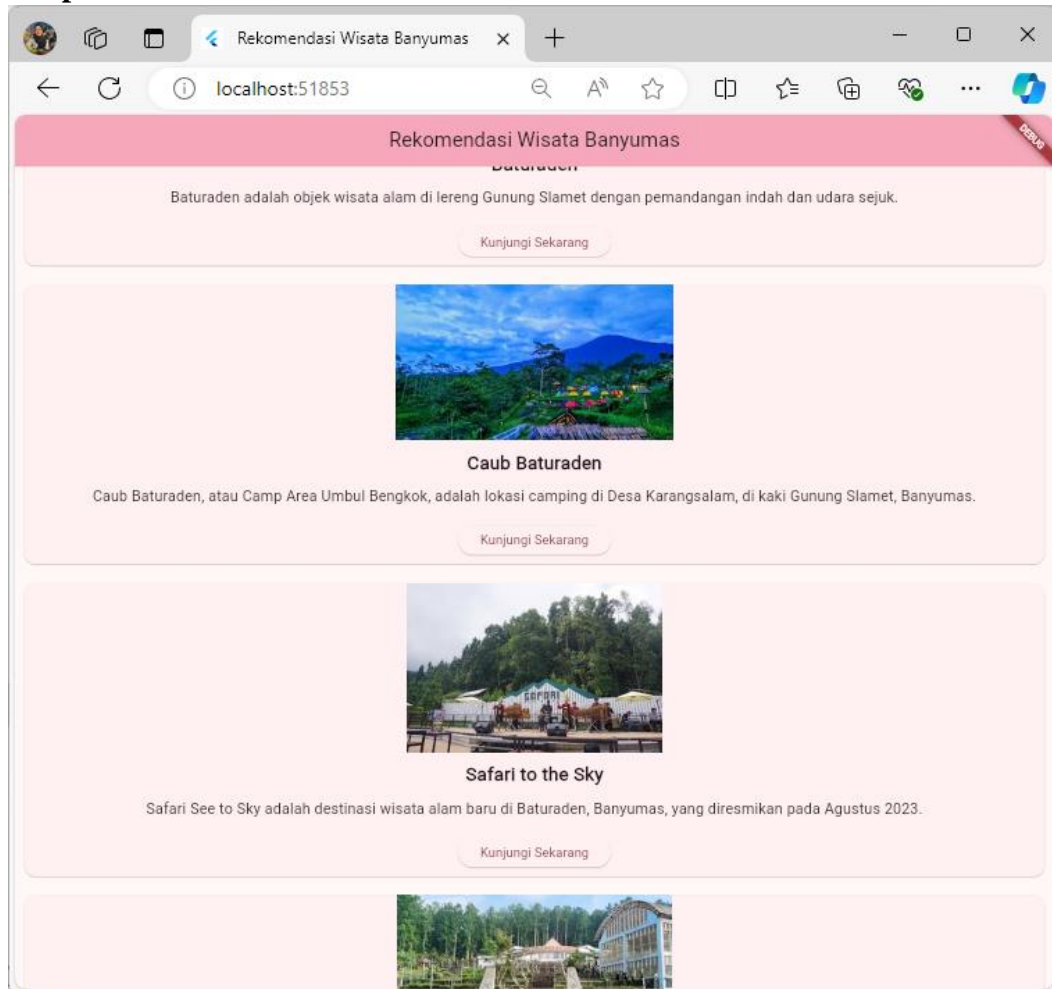
```
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2 import 'package:pertemuan_4/list_view.dart';
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6   runApp(const MyApp());
7 }
8
9 class MyApp extends StatelessWidget {
10   const MyApp({super.key});
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12   @override
13   Widget build(BuildContext context) {
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15       title: 'Flutter Demo',
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25 class MyHomePage extends StatefulWidget {
26   const MyHomePage({super.key, required this.title});
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43   @override
44   Widget build(BuildContext context) {
45     return Scaffold(
46       appBar: AppBar(
47         backgroundColor: Theme.of(context).colorScheme.inversePrimary,
48         title: Text(widget.title),
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57             padding: const EdgeInsets.all(8),
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62                   Icon(Icons.access_alarm_rounded),
63                   SizedBox(
64                     height: 24,
65                   ),
66                   const Text("Set My Alarm"),
67                 ],
68               ),
69             ),
70             color: Colors.amber,
71           ),
```

```

1      Container(
2        padding: const EdgeInsets.all(8),
3        child: Center(
4          child: Column(
5            mainAxisAlignment: MainAxisAlignment.center,
6            children: [
7              Icon(Icons.account_balance_wallet_outlined),
8              SizedBox(
9                height: 24,
10             ),
11             const Text("My Balance"),
12           ],
13         ),
14       ),
15       color: Colors.blue,
16     ),
17     Container(
18       padding: const EdgeInsets.all(8),
19       child: Center(
20         child: Column(
21           mainAxisAlignment: MainAxisAlignment.center,
22           children: [
23             Icon(Icons.add_chart_outlined),
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45         ),
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47       color: Colors.blueGrey,
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49     Container(
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75             const Text("My Cart"),
76           ],
77         ),
78       ),
79       color: Colors.redAccent,
80     ),
81   ],
82 ),
83 );
84 }
85 }

```

Output :



Penjelasan:

Kode tersebut merupakan aplikasi Flutter yang menampilkan rekomendasi tempat wisata di Banyumas. Aplikasi ini menggunakan `ListView.builder` untuk membuat daftar destinasi wisata secara dinamis, di mana setiap item terdiri dari gambar, nama, deskripsi, dan tombol "Kunjungi Sekarang". Data mengenai tempat wisata diambil dari daftar `places`, yang berisi informasi tentang nama, gambar, dan deskripsi masing-masing lokasi. Kode ini juga memanfaatkan widget seperti `Card` untuk menata tata letak dengan rapi, serta `Image.network` untuk menampilkan gambar dari URL.