



PEMROGRAMAN PERANGKAT BERGERAK

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PRAKTIKUM 4 :

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ANTARMUKA PENGGUNA

Tujuan Praktikum
Mahasiswa mampu memahami konsep layout pada Flutter
Mahasiswa dapat mengimplementasikan desain user interface pada Flutter

1. FILE gridview.dart

```
2. import 'package:flutter/material.dart';  
3.  
4. // buat class Stateful dengan short text 'stf'  
5. class GridView4 extends StatefulWidget {
```

```

6.   const GridView4({super.key});
7.
8.   @override
9.   State<GridView4> createState() => _GridView4State();
10.}
11.
12.class _GridView4State extends State<GridView4> {
13.  @override
14.  Widget build(BuildContext context) {
15.    return Scaffold(
16.      appBar: AppBar(
17.        title: Text('Praktikum 4'),
18.        backgroundColor: Colors.blueAccent[700],
19.      ),
20.      body: GridView.count(
21.        crossAxisCount: 2,
22.        mainAxisSpacing: 10,
23.        crossAxisSpacing: 10,
24.        padding: EdgeInsets.all(12),
25.        children: [
26.          Container(
27.            padding: EdgeInsets.all(10),
28.            child: Column(
29.              children: [
30.                Icon(Icons.add),
31.                Text('GridView 1'),
32.              ],
33.            ),
34.            color: Colors.amberAccent,
35.          ),
36.          Container(
37.            padding: EdgeInsets.all(10),
38.            child: Row(
39.              children: [
40.                Text('GridView 2'),
41.                Icon(Icons.ac_unit),
42.              ],
43.            ),
44.            color: Colors.cyanAccent,
45.          ),
46.          Container(
47.            padding: EdgeInsets.all(10),
48.            child: Text('GridView 3'),
49.            color: const Color.fromARGB(255, 55, 45, 200),
50.          ),
51.          Container(
52.            padding: EdgeInsets.all(10),
53.            child: Text('GridView 4'),

```

```

54.         color: const Color.fromARGB(255, 43, 244, 67),
55.     ),
56.     Container(
57.         padding: EdgeInsets.all(10),
58.         child: Text('GridView 5'),
59.         color: const Color.fromARGB(255, 17, 84, 139),
60.     ),
61.     Container(
62.         padding: EdgeInsets.all(10),
63.         child: Text('GridView 6'),
64.         color: const Color.fromARGB(255, 120, 253, 19),
65.     ),
66. ],
67. ),
68. );
69. }
70. }
71.

```

2. File listview.dart

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

```
class ListViewScreen extends StatelessWidget {
```

```
  const ListViewScreen({super.key});
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return Scaffold(
```

```
      appBar: AppBar(
```

```
        title: Text('Latihan List View'),
```

```
        backgroundColor: Colors.amber,
```

```
      ),
```

```
      body: ListView(
```

```
        scrollDirection: Axis.horizontal,
```

```
        children: [
```

```
          Container(
```

```
            height: 200,
```

```

        width: 200,
        color: Colors.red,
        child: Center(
          child: Text("Type A"),
        ),
      ),
    Container(
      height: 200,
      width: 200,
      color: Colors.deepOrange,
      child: Center(
        child: Text("Type B"),
      ),
    ),
  ],
),
);
}
}

```

3. stack.dart

```

import 'package:flutter/material.dart';

class Stack4 extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(

```

```
appBar: AppBar(  
  title: Text('Stack of 4 Rectangles'),  
,  
body: Center(  
  child: Stack(  
    children: [  
      // Persegi panjang 1: Hijau  
      Container(  
        width: 300,  
        height: 300,  
        color: Colors.green,  
      ),  
      // Persegi panjang 2: Biru  
      Container(  
        width: 250,  
        height: 250,  
        color: Colors.blue,  
      ),  
      // Persegi panjang 3: Oranye  
      Container(  
        width: 200,  
        height: 200,  
        color: Colors.orange,  
      ),  
      // Persegi panjang 4: Navy  
      Container(  
        width: 150,  
        height: 150,  
        color: Colors.blueGrey,  
      ),  
    ],  
  ),  
)
```

```
    ),  
    ),  
  );  
}  
}
```

4. main.dart

```
import 'package:flutter/material.dart';  
// import 'package:praktikum_4/gridview.dart';  
import 'package:flutter_application_4/listview.dart';  
// import 'package:praktikum_4/stack.dart'; // Import file stack.dart  
  
class MyApp extends StatelessWidget {  
  const MyApp({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Belajar GridView, ListView, dan Stack',  
      theme: ThemeData(  
        colorScheme: ColorScheme.fromSeed(  
          seedColor: const Color.fromARGB(255, 72, 10, 123)),  
        useMaterial3: true,  
      ),  
      // home: Stack4(), // Menampilkan Stack4 dari stack.dart  
      home: ListViewScreen(),  
      // home: GridView4(),  
    );  
  }  
}
```

```
    );  
  }  
}  
  
void main() {  
  runApp(const MyApp());  
}
```

