



PEMROGRAMAN PERANGKAT BERGERAK

Tahun Ajaran 2024/2025



ANTARMUKA PENGGUNA LANJUTAN



Pengembang Modul :

Yudha Islami Sulistya, S.Kom., M.Cs.

Muhammad Faza Zulian Gesit Al Barru

Aisyah Hasna Aulia

ANTARMUKA PENGGUNA LANJUTAN

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

GUIDED

Custom.scroll.view.dart

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

class CustomScrollViewScreen extends StatelessWidget {
  const CustomScrollViewScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      // appBar: AppBar(
      //   title: Text("Custom Scroll View"),
      //   backgroundColor: Colors.amber,
      // ),
      body: CustomScrollView(
        slivers: <Widget>[
          //Sliver App Bar
          const SliverAppBar(
            pinned: true,
            expandedHeight: 20,
            flexibleSpace: FlexibleSpaceBar(
              title: Text('Custom Demo'),
            ),
          ),
          // Sliver Grid -> Tampilan Grid
          SliverGrid(
            delegate: SliverChildBuilderDelegate(
              (BuildContext context, int index) {
                return Container(
                  alignment: Alignment.center,
                  color: Colors.amber[100 * (index % 9)],
```

```

        child: Text('Grid Item $index'));
    },
    childCount: 20,
  ),
  gridDelegate: const SliverGridDelegateWithMaxCrossAxisExtent(
    maxCrossAxisExtent: 200,
    mainAxisSpacing: 10,
    crossAxisSpacing: 10,
    childAspectRatio: 4,
  ),
),
],
),
);
}
}

```

Flexible_expanded.dart

```

import 'package:flutter/material.dart';

class flexibleExpandedScreen extends StatelessWidget {
  const flexibleExpandedScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Flexible vs Expanded"),
        backgroundColor: Colors.amber,
      ),
    ),
  ),
}

```

```
body: Column(  
  children: [  
    const Text(  
      "Flexible",  
      style: TextStyle(fontSize: 10),  
    ),  
    const SizedBox(  
      height: 8,  
    ),  
    Row(  
      children: [  
        Container(  
          width: 50,  
          height: 100,  
          color: Colors.red,  
        ),  
        Expanded(  
          child: Container(  
            height: 100,  
            color: Colors.amber,  
            child: Text(  
              "This is Flexible Widget, it takes up remaining space but can shrink if needed"),  
            ),  
          ),  
        Icon(Icons.sentiment_satisfied_alt_rounded)  
      ],  
    ),  
    const Text(  
      "Expanded",  
      style: TextStyle(fontSize: 10),  
    ),  
  ],  
)
```

```

const SizedBox(
  height: 8,
),
Row(
  children: [
    Container(
      width: 50,
      height: 100,
      color: Colors.red,
    ),
    Flexible(
      child: Container(
        height: 100,
        color: Colors.amber,
        child: Text(
          "This is Expanded Widget, it takes up remaining space but can shrink if needed"),
        ),
      ),
    Icon(Icons.sentiment_satisfied_alt_rounded)
  ],
),
],
),
);
}
}

```

Jenis_list_view.dart

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

```
class JenisListView extends StatelessWidget {  
  const JenisListView({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    final List<String> entries = <String>['A', 'B', 'C', 'D', 'E'];  
    final List<int> colorCodes = <int>[600, 500, 100, 200, 300];  
  
    return Scaffold(  
      appBar: AppBar(  
        title: Text("Latihan Jenis ListView"),  
        backgroundColor: Colors.amber,  
      ),  
      body: ListView.separated(  
        itemBuilder: (BuildContext context, int index) {  
          return Container(  
            height: 50,  
            color: Colors.amber[colorCodes[index]],  
            child: Center(  
              child: Text("Entry ${entries[index]}"),  
            ),  
          );  
        },  
        itemCount: entries.length,  
        separatorBuilder: (BuildContext context, int index) {  
          return Container(  
            height: 10,  
            color: Colors.red,  
          );  
        },  
      ),  
    );  
  }  
}
```

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

Main.dart

```
import 'package:flutter/material.dart';  
import 'package:flutter_application_5/custom_scroll_view.dart';  
// import 'package:praktikum_5/jenis_list_view.dart';  
// import 'package:praktikum_5/flexible_expanded.dart';  
  
void main() {  
  runApp(const MyApp());  
}  
  
class MyApp extends StatelessWidget {  
  const MyApp({super.key});  
  
  // This widget is the root of your application.  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      debugShowCheckedModeBanner: false,  
      title: 'Praktikum Jenis ListView',  
      theme: ThemeData(  
        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),  
        useMaterial3: true,  
      ),  
    );  
  }  
}
```

```
// home: JenisListView(), // 1. Memanggil ListView
// home: flexibleExpandedScreen(), // 2. Memanggil FlexibleExpandedScreen
home: CustomScrollViewScreen(), // 3. Memanggil CustomScrollViewScreen
);
}
}
```