

**TUGAS GUIDED
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL V
ANTARMUKA PENGGUNA LANJUTAN**



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**PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO**

2024

1. FLEXIBLE EXPANDED

Source Code

```
1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(MyApp());
5 }
6
7 class MyApp extends StatelessWidget {
8   @override
9   Widget build(BuildContext context) {
10    return MaterialApp(
11      title: 'Sliver Demo',
12      theme: ThemeData(
13        primarySwatch: Colors.blue,
14      ),
15      home: SliverDemo(),
16    );
17  }
18 }
19
20 class SliverDemo extends StatelessWidget {
21   @override
22   Widget build(BuildContext context) {
23     return Scaffold(
24       body: CustomScrollView(
25         slivers: <Widget>[
26           // Sliver App Bar
27           const SliverAppBar(
28             pinned: true,
29             expandedHeight: 250.0,
30             flexibleSpace: FlexibleSpaceBar(
31               title: Text('Sliver Demo'),
32               background: FlutterLogo(), // Optional: Background in AppBar
33             ),
34           ),
35           // Sliver Grid
36           SliverGrid(
37             gridDelegate: const SliverGridDelegateWithMaxCrossAxisExtent(
38               maxCrossAxisExtent: 200.0, // Maximum width of each grid item
39               mainAxisSpacing: 10.0, // Vertical spacing
40               crossAxisSpacing: 10.0, // Horizontal spacing
41               childAspectRatio: 4.0, // Width to height ratio
42             ),
43             delegate: SliverChildBuilderDelegate(
44               (BuildContext context, int index) {
45                 return Container(
46                   alignment: Alignment.center,
47                   color: Colors.teal[100 * (index % 9)], // Color variation
48                   child: Text('Grid Item $index'),
49                 );
50               },
51               childCount: 20, // Total number of grid items
52             ),
53           ),
54           // Sliver Fixed List
55           SliverFixedExtentList(
56             itemExtent: 50.0, // Fixed height for each list item
57             delegate: SliverChildBuilderDelegate(
58               (BuildContext context, int index) {
59                 return Container(
60                   alignment: Alignment.center,
61                   color: Colors.lightBlue[100 * (index % 9)], // Color variation
62                   child: Text('List Item $index'),
63                 );
64               },
65               childCount: 10, // Total number of list items
66             ),
67           ),
68         ],
69       ),
70     );
71   }
72 }
73
```

Hasil Output



2. CUSTOM SCROLLLL VIEW

Source Code

```
1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(MyApp());
5 }
6
7 class MyApp extends StatelessWidget {
8   @override
9   Widget build(BuildContext context) {
10    return MaterialApp(
11      title: 'Sliver Demo',
12      theme: ThemeData(
13        primarySwatch: Colors.blue,
14      ),
15      home: SliverDemo(),
16    );
17  }
18 }
19
20 class SliverDemo extends StatelessWidget {
21   @override
22   Widget build(BuildContext context) {
23     return Scaffold(
24       body: CustomScrollView(
25         slivers: <Widget>[
26           // Sliver App Bar
27           const SliverAppBar(
28             pinned: true,
29             expandedHeight: 250.0,
30             flexibleSpace: FlexibleSpaceBar(
31               title: Text('Sliver Demo'),
32               background: FlutterLogo(), // Optional: Background in AppBar
33             ),
34           ),
35           // Sliver Grid
36           SliverGrid(
37             gridDelegate: const SliverGridDelegateWithMaxCrossAxisExtent(
38               maxCrossAxisExtent: 200.0, // Maximum width of each grid item
39               mainAxisSpacing: 10.0, // Vertical spacing
40               crossAxisSpacing: 10.0, // Horizontal spacing
41               childAspectRatio: 4.0, // Width to height ratio
42             ),
43             delegate: SliverChildBuilderDelegate(
44               (BuildContext context, int index) {
45                 return Container(
46                   alignment: Alignment.center,
47                   color: Colors.teal[100 * (index % 9)], // Color variation
48                   child: Text('Grid Item $index'),
49                 );
50               },
51               childCount: 20, // Total number of grid items
52             ),
53           ),
54           // Sliver Fixed List
55           SliverFixedExtentList(
56             itemExtent: 50.0, // Fixed height for each list item
57             delegate: SliverChildBuilderDelegate(
58               (BuildContext context, int index) {
59                 return Container(
60                   alignment: Alignment.center,
61                   color: Colors.lightBlue[100 * (index % 9)], // Color variation
62                   child: Text('List Item $index'),
63                 );
64               },
65               childCount: 10, // Total number of list items
66             ),
67           ),
68         ],
69       ),
70     );
71   }
72 }
73
```

Output :

Sliver Demo

DEBUG

Grid Item 0	Grid Item 1	Grid Item 2
Grid Item 3	Grid Item 4	Grid Item 5
Grid Item 6	Grid Item 7	Grid Item 8
Grid Item 9	Grid Item 10	Grid Item 11
Grid Item 12	Grid Item 13	Grid Item 14
Grid Item 15	Grid Item 16	Grid Item 17
Grid Item 18	Grid Item 19	

List Item 0

List Item 1

List Item 2

List Item 3

List Item 4

List Item 5

List Item 6