#### LAPORAN PRAKTIKUM PEMROGRAMAN PERANGKAT BERGERAK

## MODUL V ANTARMUKA PENGGUNA LANJUTAN



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#### **GUIDED**

#### **Source Code:**

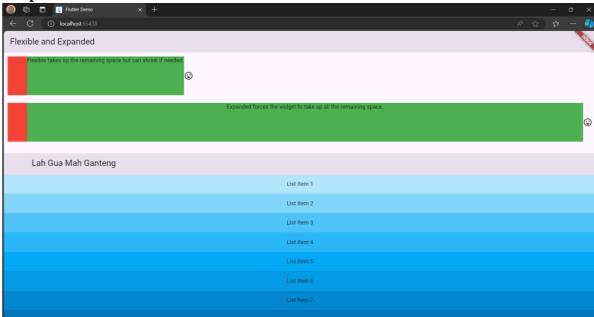
#### Main.dart

#### Flexible\_expanded.dart

```
import 'package:flutter/material.dart';
class FlexibleExpandedScreen extends StatelessWidget {
  const FlexibleExpandedScreen({super.key});
   goverrace
Widget build(BuildContext context) {
    // Data for ListView.builder and ListView.separated
    final List<String> entries = <Strings['A', 'B', 'C'];
    final List<int> colorCodes = <int>[690, 500, 100];
             appBar: AppBar(
   title: const Text('Flexible and Expanded'),
             body: Column(
children: [
// Section 1: Flexible & Expanded
                     Padding(
padding: const EdgeInsets.all(10.0),
child: Column(
                            color:
),
Flexible(
child: Container(
  height: 100,
  color: Colors.green,
  child: const Text(
    "Flexible takes up the remaining space but can shrink if needed.",
  textAlign: TextAlign.center,
  softWrap: true,
    "log: TextOverflow.ellipsis,
                                    // Expanded
Row(
                                          Container(
width: 50,
height: 100,
color: Colors.red,
                                       ),
Expanded(
child: Container(
height: 100,
color: Colors.green,
child: const Text(
"Expanded forces to
lign: TextAli
                                                      "Expanded forces the widget to take up all the remaining space.", textAlign: TextAlign.center,
                                                        softWrap: true,
overflow: TextOverflow.ellipsis,
                      // Section 2: CustomScrollView wrapped in Expanded to make it scrollable
Expanded(
  child: CustomScrollView(
                              slivers: <Widget>[
  // SLiver App Bar
  const SliverAppBar(
                                      pinned: true,
expandedHeight: 250.0,
flexibleSpace: FlexibleSpaceBar(
title: Text('Lah Gua Mah Ganteng'),
                                  // Sliver Grid
SliverGrid(
gridDelegate: const SliverGridDelegateWithMaxCrossAxisExtent(
                                          maxCrossAxisExtent: 200.0,
mainAxisSpacing: 10.0,
crossAxisSpacing: 10.0,
childAspectRatio: 4.0,
                                           elegate: SilverUnilabuliderDelegate(
GuildContext context, int index) {
  return Container(
    alignment: Alignment.center,
    color: Colors.teal[180 * (index % 9)],
    child: Text('Grid Item $index'),
```

```
// Sliver List (ListView.builder)
SliverList(
  delegate: SliverChildBuilderDelegate(
    (BuildContext context, int index) {
      return Container(
        height: 50,
        color: Colors.amber[colorCodes[index]],
        child: Center(
          child: Text('Entry ${entries[index]}'),
    childCount: entries.length,
// Sliver List with Separator (ListView.separated)
SliverList(
  delegate: SliverChildBuilderDelegate(
    (BuildContext context, int index) {
      return Column(
        children: [
          Container(
            height: 50,
            color: Colors.amber[colorCodes[index]],
            child: Center(
              child: Text('Separated Entry ${entries[index]}'),
          // Separator
          const Divider(),
    childCount: entries.length,
// Sliver Fixed List
SliverFixedExtentList(
  itemExtent: 50.0,
  delegate: SliverChildBuilderDelegate(
    (BuildContext context, int index) {
      return Container(
        alignment: Alignment.center,
        color: Colors.lightBlue[100 * (index % 9)],
        child: Text('List Item $index'),
    childCount: 10, // Limit List to 10 items
```

Output:



# UNGUIDED

### **Source Code:**

```
child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
                                                     // Gambar wisata
                                                            topLeft: Radius.circular(15),
topRight: Radius.circular(15),
                                                         ),
child: Image.network(
                                                            wisataImages[index],
height: 200,
                                                             fit: BoxFit.cover,
                                                     ),
// Nama dan Deskripsi Wisata
                                                                    fontSize: 20,
fontWeight: FontWeight.bold,
color: Colors.teal,
                                                                const SizedBox(height: 8),
Text(
                                                                   wisataDescriptions[index],
style: const TextStyle(
                                                                       fontSize: 16,
color: Colors.grey,
                                                                 const SizedBox(height: 8),
                                                                         showDialog(
                                                                            context: context,
builder: (BuildContext context) {
                                                                                return AlertDialog(
  title: Text(wisataTitles[index]),
                                                                                   content: Text(
   'Informasi lebih lanjut...'),
                                                                                         child: const Text("Tutup"),
onPressed: () {
                                                                                              Navigator.of(context).pop():
                                                                    },
child: const Text('Lihat Selengkapnya'),
                              childCount: wisataTitles.length,
// Daftar gambar wisata
// Jody Con youngain wisdow
final ListStrings wisataImages = [
'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTwBwAYW9PMHqQ_uM1Yr7otTFLmb5xgGSakMQ&s',
    'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSvq3f6dJ219euMBEC8-1nY7WLbf2wBSZSYjg8s',
'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSH-117XQzDy4Rpd0W_K_A0KQop4TUDErt8Zg8s',
'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQuLUz27VNWWGIfJr3pUv1YQoyJvQwJnVh9QA8s',
// Daftar title wisata
final List<String> wisataTitles = [
    'Baturaden',
'Curug Cipendok',
    'Telaga Sunyi',
'Taman Andhang Pangrenan',
// Daftar deskripsi wisata
final List<String> wisataDescriptions = [
    'Baturaden adalah objek wisata alam di lereng Gunung Slamet dengan pemandangan indah dan udara sejuk.',
    'Curug Cipendok adalah air terjun yang megah dan terkenal dengan keindahan alam serta sejuknya udara pegunungan.',
    'Telaga Sunyi adalah tempat wisata alam yang menyajikan ketenangan dengan air yang jernih dan suasana asri.',
    'Taman kota yang cocok untuk rekreasi keluarga dengan berbagai fasilitas umum yang menarik.',
```

. . .

### Output:

