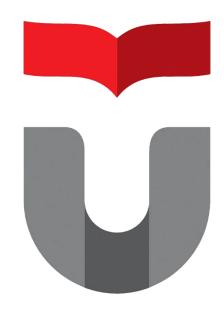
LAPORAN TUGAS GUIDED PEMROGRAMAN PERANGKAT BERGERAK

MODUL 5
ANTARMUKA PENGGUNA LANJUTAN



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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO

GUIDED DAN UNGUIDED

A. Main.dart

```
• • •
import 'package:flutter/material.dart';
import 'package:praktikum5/flexible_expanded_screen.dart';
import 'package:praktikum5/jenis_list_view.dart';
import 'package:praktikum5/custom_scroll_view.dart';
void main() {
  runApp(const MyApp());
class MyApp extends StatelessWidget {
  const MyApp({super.key});
    Widget build(BuildContext context) {
return MaterialApp(
    title: 'Flutter Demo',
    theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor:
Colors.deepBaMpte)jal3: true,
class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});
    @override
State<MyHomePage> createState() => _MyHomePageState();
class _MyHomePageState extends State<MyHomePage> {
    void _incrementCounter() {
  setState(() {
    _counter++;
    @override
Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
   backgroundColor: Theme.of(context).colorScheme.inversePrimary,
   title: Text(widget.title),
           title.
),
body: Center(
child: Column(
mainAxisAlignment: MainAxisAlignment.center,
children: <Widget>[
const Text(
'You have pushed the button this many times:',
             ),
floatingActionButton: FloatingActionButton(
  onPressed: _incrementCounter,
  tooltip: 'Increment',
  child: const Icon(Icons.add),
```

B. CUSTOM SCROLL VIEW DART

```
. . .
import 'package:flutter/material.dart';
class CustomScreen extends StatelessWidget {
  const CustomScreen({super.key});
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text("Custom"),
        centerTitle: true,
backgroundColor: Colors.amber,
      body: CustomScrollView(
        slivers: <Widget>[
          const SliverAppBar(
            pinned: true,
            expandedHeight: 250.0, flexibleSpace: FlexibleSpaceBar(
              title: Text('Custom Demo'),
          SliverGrid(
            delegate: SliverChildBuilderDelegate(
              (BuildContext context, int index) {
                return Container(
                   alignment: Alignment.center,
                  color: Colors.cyan[100 * (index % 9)],
                  child: Text('Grid item $index'),
            gridDelegate: const
SliverGridDelemax6WothMax6EateAtisEatent(
              mainAxisSpacing: 10,
              crossAxisSpacing: 10,
              childAspectRatio: 4,
```

C. Flexible Expanded Screen.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(
                          "Flexible",
style: TextStyle(fontSize: 10),
                      ),
SizedBox(
                      height: 8,
),
Row(
children: [
                                 width: 50,
height: 100,
color: Colors.red,
                            ),
Flexible(
child: Container(
height: 100,
or: Colors.a
                                    color: Colors.amber,
child: const Text(
    "This is flexible widget, it takes up remaining space but can shrink if
                             ), const Icon(Icons.sentiment_satisfied_alt_rounded)
                      ),
SizedBox(
                       ),
Text(
                          "Expanded",
style: TextStyle(fontSize: 18),
                       const SizedBox(
                      ),
Row(
                             (
hildren: [
Container(
                                 width: 50,
height: 100,
color: Colors.red,
                            ),
Expanded(
child: Container(
height: 100,
color: Colors.amber,
child: const Text(

"This is flexible widget, it takes up remaining space but can shrink if
```

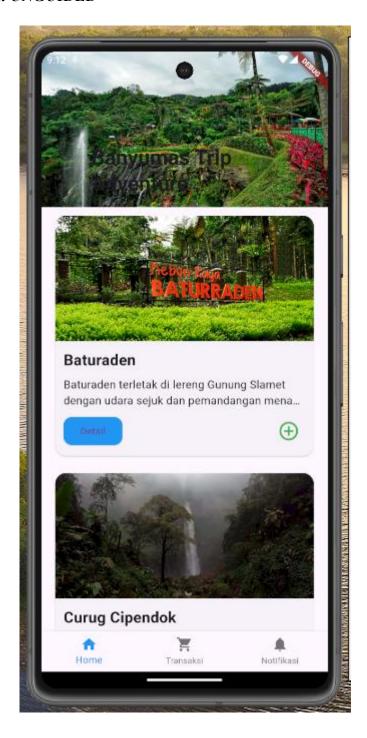
D. Jenis List View.dart

```
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, 400, 300, 200];
    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, int index) {
            return Container(
              height: 10,
          }),
```

Output:



E. UNGUIDED



Deskripsi:

- CustomScrollView: Digunakan untuk menampung elemen-elemen dengan efek scroll.
- **SliverAppBar**: Membuat header yang bisa di-*scroll*, memiliki fitur seperti berubah ukuran saat di-*scroll* ke atas.
- **SliverList**: Digunakan untuk menampilkan daftar wisata secara dinamis dengan *scrolling*.
- **BottomNavigationBar**: Ditambahkan di bagian bawah halaman utama. Ketika pengguna mengetuk salah satu item (Home, Transaksi, atau Notifikasi), aplikasi akan menampilkan halaman yang sesuai.

Tampilan aplikasi akan lebih interaktif, dengan efek *scroll* yang lebih menarik serta tampilan aplikasi yang lebih fleksibel untuk data wisata.