LAPORAN PRAKTIKUM PEMROGRAMAN PERANGKAT BERGERAK

MODUL V ANTARMUKA PENGGUNA LANJUTAN



Disusun Oleh:

Devrin Anggun Saputri / 2211104001 SE0601

Asisten Praktikum : Muhammad Faza Zulian Gesit Al Barru Aisyah Hasna Aulia

Dosen Pengampu:

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

PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
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GUIDED

1. File main.dart

```
import 'package:flutter/material.dart';
import 'flexible_expanded.dart'; // Tambahkan import ini

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

class MyApp extends StatelessWidget {
    const MyApp([super.key]);

@override

widget build(BuildContext context) {
    return MaterialApp(
    title: 'Flutter Demo',
    theme: ThemeData(
        colorScheme. ColorScheme.fromSeed(seedColor: Colors.deepPurple),
        useMaterial3: true,
    ),
    home: FlexibleExpandedScreen(), // Pastikan ini sesuai dengan nama kelas di flexible_expanded.dart
    );
}

processor

limport 'flexible Expanded.dart';
// Tambahkan import ini

solution:

colors MyApp();

deverride

widget build(BuildContext context) {
    return MaterialApp(
    title: 'Flutter Demo',
    theme: ThemeData(
        colorScheme.fromSeed(seedColor: Colors.deepPurple),
    useMaterial3: true,
    ),
    home: FlexibleExpandedScreen(), // Pastikan ini sesuai dengan nama kelas di flexible_expanded.dart
    );
}
```

2. Flexible_expanded.dart

```
// Section 2: CustomScrollView wrapped in Expanded to make it scrollable
Expanded(
    child: CustomScrollView(
        slivers: <Widgeto[</pre>
                                       // Sliver App Bar
const SliverAppBar(
                                                 Const SilverAppBar(
pinned: true,
expandedHeight: 258.0,
flexibleSpace: FlexibleSpaceBar(
title: Text('Selamat Datang Di Dunia Coding'),
),
                                            // Sliver Grid
SliverGrid(
gridDelegate: const SliverGridDelegateWithMaxCrossAxisExtent(
maxCrossAxisExtent: 200.0,
mainAxisSpacing: 10.0,
crossAxisSpacing: 10.0,
childAspectRatio: 4.0,
}
                                                childAspectner
),
delegate: SliverChildBuilderDelegate(
(BuildContext context, int index) {
   return container(
    alignment: Alignment.center,
        color: Colors.teal[100 * (index % 9)],
        child: Text('Grid Item $index'),
    );
},
                                           // 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'),
        );
```

3. Widget test.dart

```
// This is a basic Flutter widget test.

// Jo perform an interaction with a widget in your test, use the WidgetTester

// Utility in the flutter_test package. For example, you can send tap and scroll

// gestures. You can also use WidgetTester to find child widgets in the widget

// tree, read text, and verify that the values of widget properties are correct.

import 'package:flutter/material.dart';

import 'package:flutter_test/flutter_test.dart';

void main() {

testWidgets('Counter increments smoke test', (WidgetTester tester) async {

// Build our app and trigger a frame.

await tester.pumpWidget(const MyApp());

// Verify that our counter starts at 0.

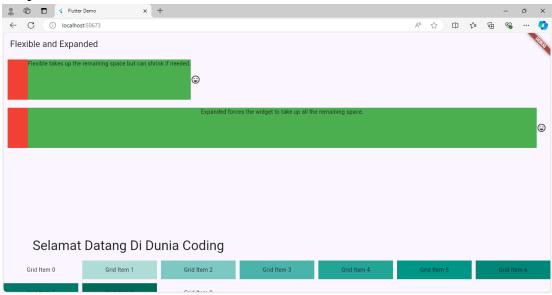
expect(find.text('0'), findsOneWidget);
expect(find.text('1'), findsNothing);

// Tap the '*' icon and trigger a frame.
await tester.pump();

// Verify that our counter has incremented.
expect(find.text('0'), findsNothing);
expect(find.text('0'), findsNothing);
expect(find.text('0'), findsNothing);
expect(find.text('1'), findsNothing);
expect(find.text('1'), findsOneWidget);
});

// Verify that our counter has incremented.
expect(find.text('1'), findsOneWidget);
});
```

Output:



UNGUIDED

1. Main.dart

```
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```

2. Widget_test.dart

```
// This is a basic Flutter widget test.

//

// To perform an interaction with a widget in your test, use the WidgetTester

// utility in the flutter_test package. For example, you can send tap and scroll

// gestures. You can also use WidgetTester to find child widgets in the widget

// tree, read text, and verify that the values of widget properties are correct.

import 'package:flutter_material.dart';

import 'package:flutter_test/flutter_test.dart';

import 'package:unguided_wisata/main.dart'; // Sesuaikan dengan struktur project

void main() {

testWidgets('Counter increments smoke test', (WidgetTester tester) async {

// Build our app and trigger a frame.

await tester.pumpWidget(const MainApp()); // Ubah dari MyApp ke MainApp

// Verifikasi bahwa counter dimulai dari 0.

expect(find.text('1'), findsOneWidget);

expect(find.text('1'), findsNothing);

// Tap pada icon '+' dan trigger frame.

await tester.tap(find.byIcon(Icons.add));

await tester.pump();

// Verifikasi bahwa counter bertambah menjadi 1.

expect(find.text('0'), findsNothing);

expect(find.text('1'), findsOneWidget);

};

expect(find.text('1'), findsOneWidget);

};

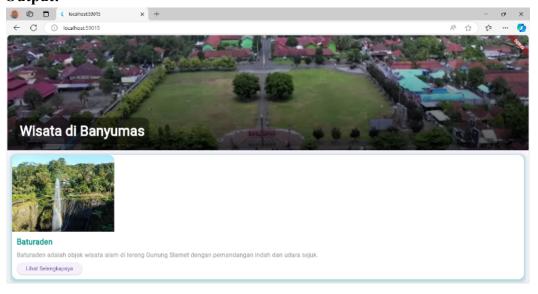
avpect(find.text('1'), findsOneWidget);

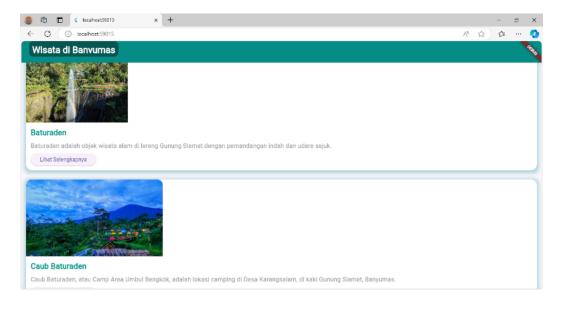
};

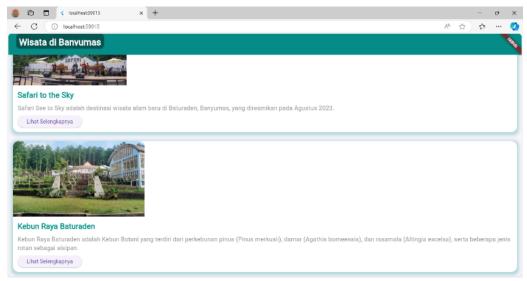
avpect(find.text('1'), findsOneWidget);

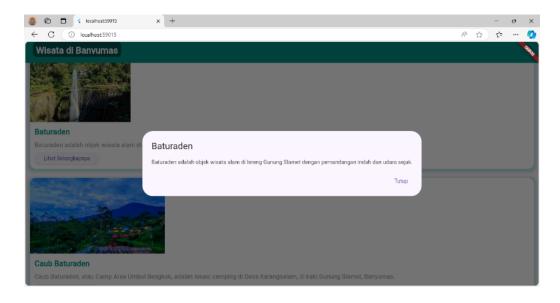
};
```

Output:









Penjelasan:

Program ini berhasil mengimplementasikan CustomScrollView, SliverAppBar, dan SliverList dengan efektif untuk menampilkan informasi tempat wisata di Banyumas. Desain yang responsif dan interaktif membuat aplikasi ini menarik untuk digunakan dan memberikan kemudahan dalam mencari wisata di Banyumas. Code ini dapat dikembangkan untuk menambah lebih banyak fitur dan informasi sesuai kebutuhan pengguna.