

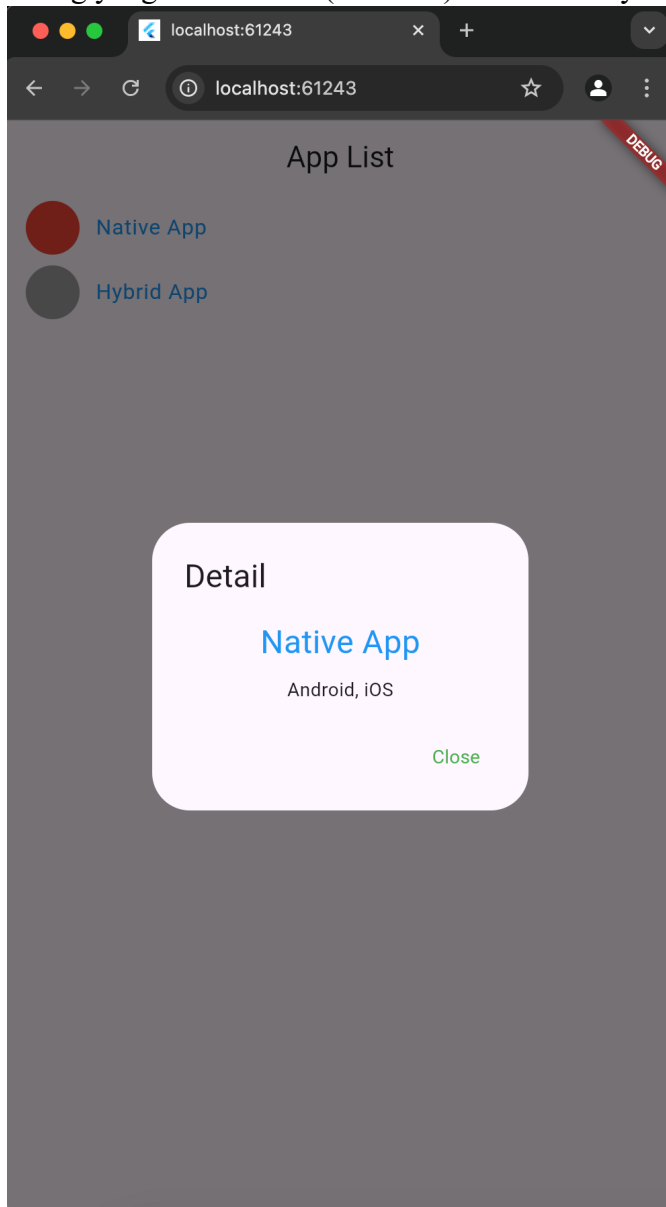
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**Soal:**

Buatlah aplikasi Flutter dengan ListView. Ketika elemen List di-klik maka akan memunculkan dialog yang berisi detail (data lain) dari elemen yang di-klik:



**Jawab:**

**Source code:**

Main.dart

```

import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: AppListScreen(),
    );
  }
}

class AppListScreen extends StatelessWidget {
  void _showPopup(BuildContext context, String title, String
description) {
    showDialog(
      context: context,
      builder: (BuildContext context) {
        return AlertDialog(
          title: Text("Detail"),
          content: Column(
            mainAxisAlignment: MainAxisAlignment.min,
            children: [
              Text(
                title,
                style: TextStyle(
                  fontSize: 24,
                  color: Colors.blue,
                ),
              ),
              SizedBox(height: 8),
              Text(description),
            ],
          ),
          actions: <Widget>[
            TextButton(
              child: Text("Close", style: TextStyle(color:
Colors.green)),
              onPressed: () {
                Navigator.of(context).pop();
              },
            ),
          ],
        );
      },
    );
  }
}

```

```

    );
  },
);
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("App List"),
    ),
    body: ListView(
      children: [
        ListTile(
          leading: CircleAvatar(
            backgroundColor: Colors.red,
          ),
          title: Text("Native App", style: TextStyle(color:
Colors.blue)),
          onTap: () => _showPopup(context, "Native App",
"Android, iOS"),
        ),
        ListTile(
          leading: CircleAvatar(
            backgroundColor: Colors.grey,
          ),
          title: Text("Hybrid App", style: TextStyle(color:
Colors.blue)),
          onTap: () => _showPopup(
            context,
            "Hybrid App",
            "Android, iOS, Web\nJavascript, Dart",
          ),
        ),
      ],
    ),
  );
}
}

```

Source Code 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:tugas6_user_interaction/main.dart';

void main() {
  testWidgets('Counter increments smoke test', (WidgetTester tester) async {
    // Build our app and trigger a frame.
    await tester.pumpWidget(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.tap(find.byIcon(Icons.add));
    await tester.pump();

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

```
expect(find.text('Email page'), findsOneWidget);
expect(find.text('Profile page'), findsNothing);

// Tap the 'Profile' icon and trigger a frame.
await tester.tap(find.byIcon(Icons.person));
await tester.pumpAndSettle();

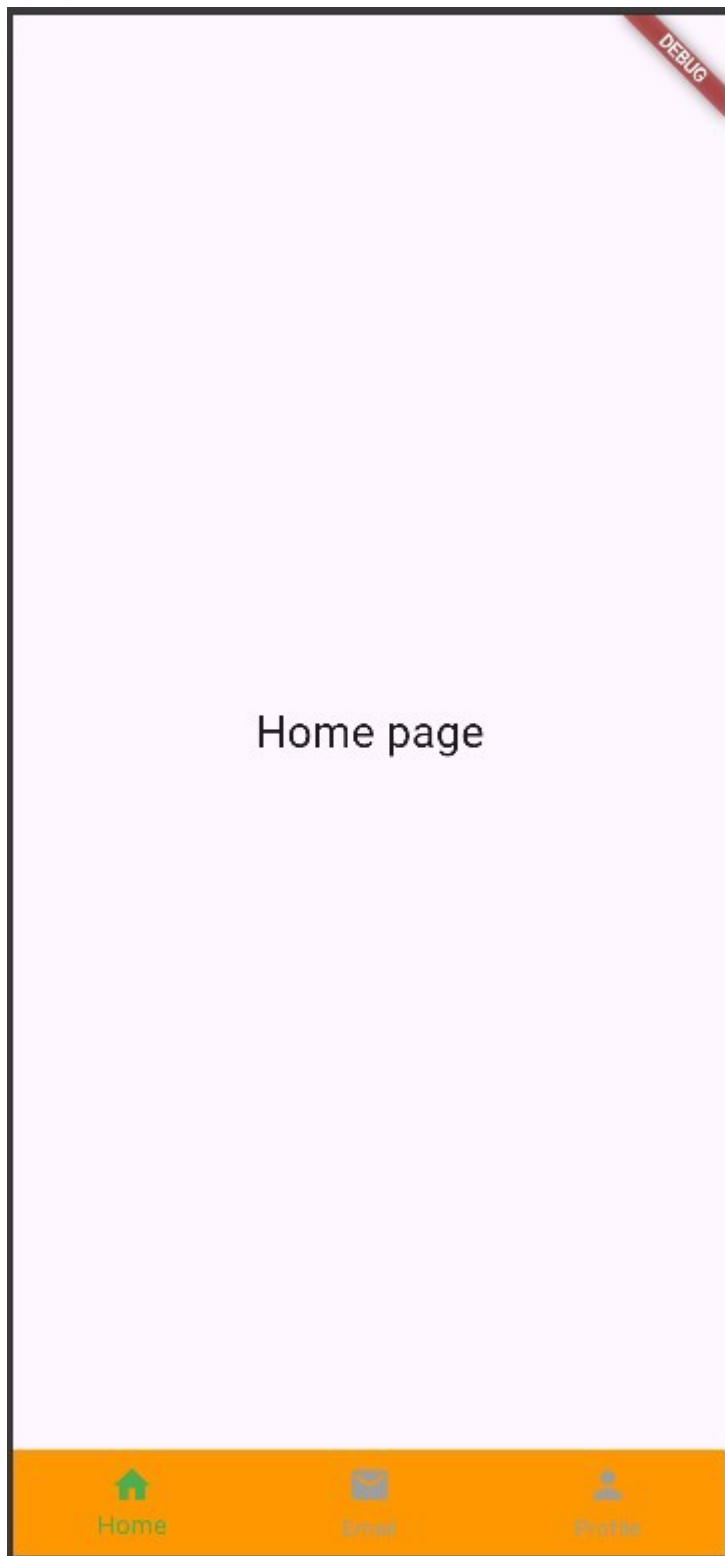
// Verify that the Profile page is displayed.
expect(find.text('Home page'), findsNothing);
expect(find.text('Email page'), findsNothing);
expect(find.text('Profile page'), findsOneWidget);

// Tap the 'Home' icon and trigger a frame.
await tester.tap(find.byIcon(Icons.home));
await tester.pumpAndSettle();

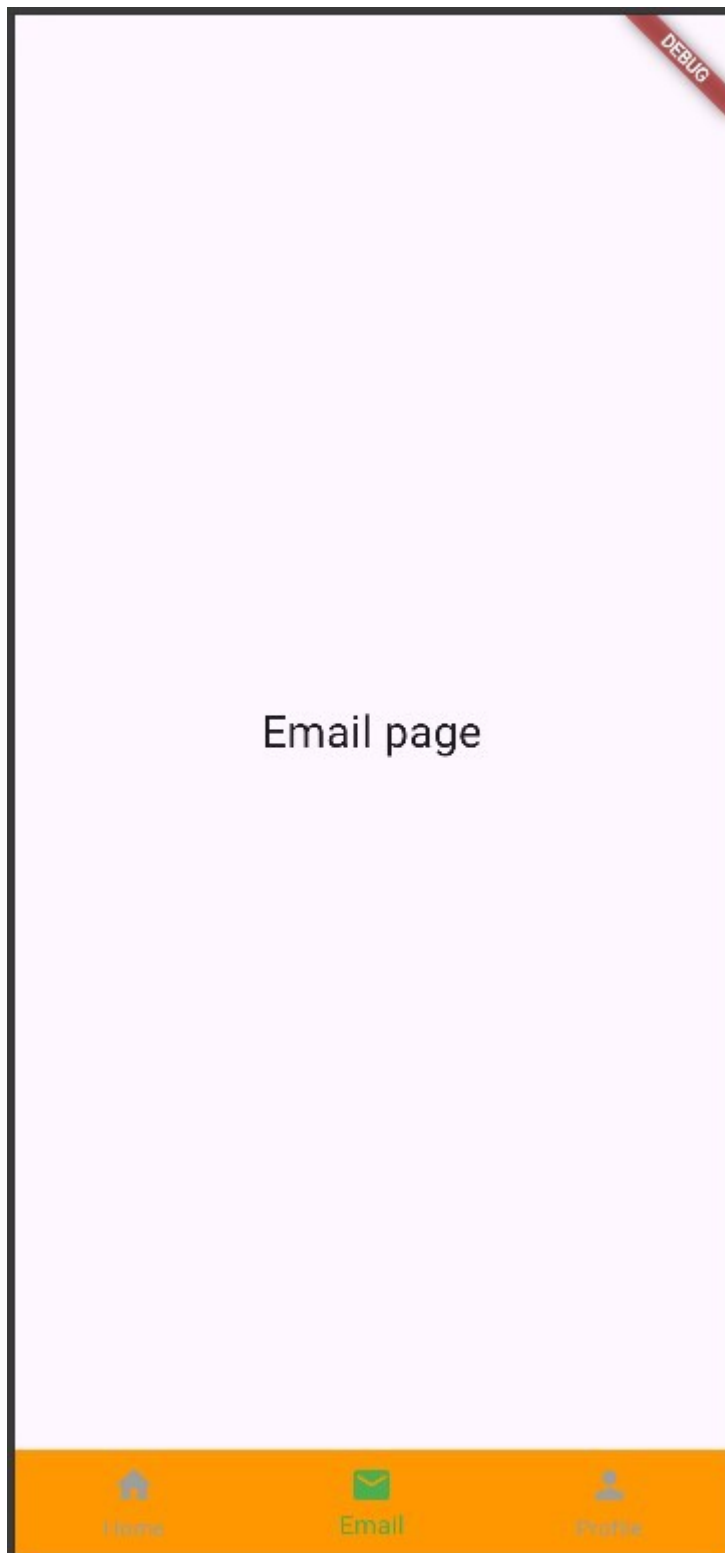
// Verify that the Home page is displayed again.
expect(find.text('Home page'), findsOneWidget);
expect(find.text('Email page'), findsNothing);
expect(find.text('Profile page'), findsNothing);
});
}
```

**Output:**

**Home page**



**Email page**



**Profile page**

DEBUG

Profile page

