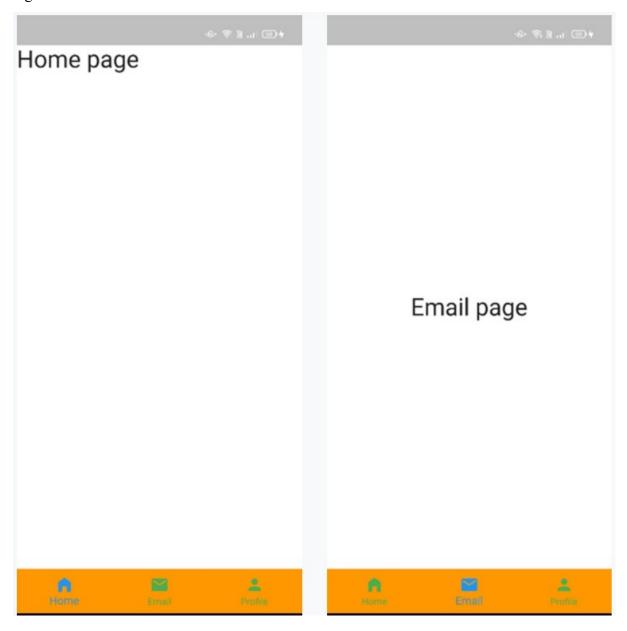
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## **Soal:**

Buatlah aplikasi Flutter dengan tampilan seperti di bawah ini menggunakan SafeArea dan PageView:



Jawab:

**Source code:** 

Main.dart

```
import 'package:flutter/material.dart';
void main() {
runApp(MyApp());
class MyApp extends StatefulWidget {
 @override
 _MyAppState createState() => _MyAppState();
class MyAppState extends State<MyApp> {
// Controller for PageView
 PageController pageController = PageController();
int selectedIndex = 0;
// Function to handle page navigation
 void onItemTapped(int index) {
setState(() {
   _selectedIndex = index;
   pageController.animateToPage(index,
     duration: Duration(milliseconds: 300), curve: Curves.easeInOut);
  });
 }
 @override
 Widget build(BuildContext context)
{ return MaterialApp(
                            home:
Scaffold(
    // SafeArea to prevent overlapping with status bar
                      child: PageView(
body: SafeArea(
controller: pageController,
      onPageChanged: (index) {
setState(() {
         selectedIndex = index;
       });
      },
      children: [
       // Pages for Home, Email, and Profile
        Center(child: Text('Home page', style: TextStyle(fontSize: 24))),
        Center(child: Text('Email page', style: TextStyle(fontSize: 24))),
        Center(
                          child: Text('Profile page', style:
TextStyle(fontSize: 24))),
      ],
```

), ), // Bottom Navigation Bar
bottomNavigationBar: BottomNavigationBar( items: const <bottomnavigationbaritem>[</bottomnavigationbaritem>

```
BottomNavigationBarItem(
                                         icon:
Icon(Icons.home),
       label: 'Home',
      BottomNavigationBarItem(
                                         icon:
Icon(Icons.email),
       label: 'Email',
      BottomNavigationBarItem(
                                         icon:
Icon(Icons.person),
       label: 'Profile',
      ),
     l,
     currentIndex: _selectedIndex,
selectedItemColor: Colors.green,
unselectedItemColor: Colors.grey,
backgroundColor: Colors.orange,
     onTap: onItemTapped,
    ),
   ),
 ); }
```

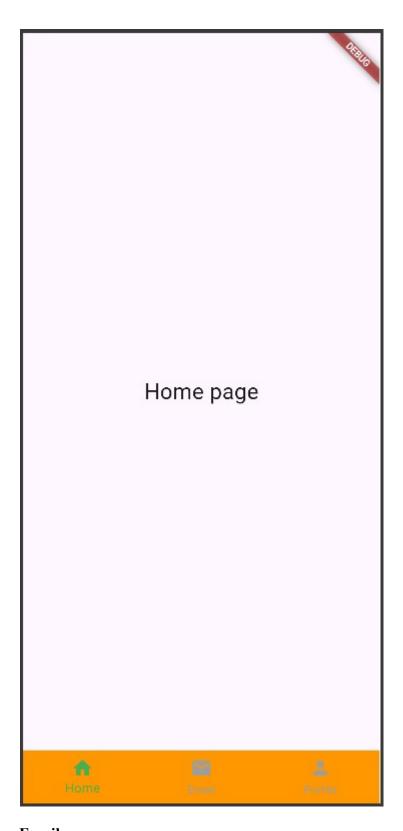
Source Code widget\_test.dart

```
import 'package:flutter/material.dart'; import
'package:flutter test/flutter test.dart';
import 'package:tugas5 advance layout/main.dart'; // Pastikan import ini sesuai
dengan nama aplikasi Anda.
void main() {
 testWidgets('Test bottom navigation bar and page view',
   (WidgetTester tester) async {
  // Build the app and trigger a frame.
await tester.pumpWidget(MyApp());
  // Verify that initially the Home page is displayed.
expect(find.text('Home page'), findsOneWidget);
expect(find.text('Email page'), findsNothing);
                                                expect(find.text('Profile
page'), findsNothing);
  // Tap the 'Email' icon and trigger a frame.
await tester.tap(find.byIcon(Icons.email));
                                             await
tester.pumpAndSettle();
  // Verify that the Email page is displayed.
expect(find.text('Home page'), findsNothing);
  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);
});
```

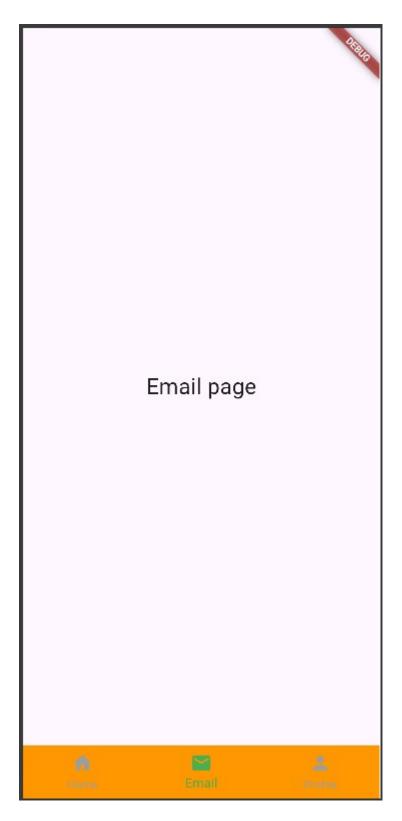
}			

Output:

Home page



Email page



Profile page

