
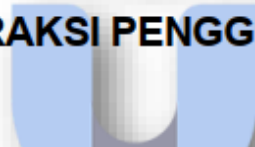




PEMROGRAMAN PERANGKAT BERGERAK

Tahun Ajaran 2024/2025


PRAKTIKUM 6 :
INTERAKSI PENGGUNA



INTERAKSI PENGGUNA



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INTERAKSI PENGGUNA

Tujuan Praktikum
Mahasiswa mampu memahami konsep layout pada Flutter
Mahasiswa dapat mengimplementasikan desain user interface pada Flutter

Tugas Guided

My.package.dart

```
import 'package:flutter/material.dart';
```

```

import 'package:google_fonts/google_fonts.dart';

class MyPackage extends StatefulWidget {
  const MyPackage({super.key});

  @override
  _MyPackageState createState() => _MyPackageState();
}

class _MyPackageState extends State<MyPackage> {
  String selectedValue = 'Ops'; // Nilai awal dari dropdown

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Belajar Package', style: GoogleFonts.poppins()), // Menggunakan Google Fonts
        backgroundColor: Colors.amber,
      ),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Column(
          children: [
            const TextField(
              decoration: InputDecoration(
                prefixIcon: Icon(Icons.person), // Ikon di depan input
                hintText: "Masukkan username", // Placeholder
                border: OutlineInputBorder(), // Border input
              ),
            ),
            const SizedBox(height: 16),
          ],
        ),
      ),
    );
  }
}

```

```

const TextField(
  obscureText: true, // Mengaktifkan mode password
  decoration: InputDecoration(
    prefixIcon: Icon(Icons.lock), // Ikon kunci
    hintText: "Masukkan password", // Placeholder
    border: OutlineInputBorder(), // Border input
  ),
),
const SizedBox(height: 15),
ElevatedButton(
  onPressed: () {
    // Tambahkan aksi yang diinginkan saat tombol ditekan
  },
  child: const Text(
    "Ini adalah Elevated Button",
    style: TextStyle(color: Colors.white),
  ),
  style: ElevatedButton.styleFrom(backgroundColor: Colors.blue),
),
const SizedBox(height: 20),
TextButton(
  onPressed: () {
    // Tambahkan aksi di sini
  },
  child: const Text(
    'Ini adalah TextButton',
    style: TextStyle(
      fontSize: 20,
      color: Color.fromARGB(255, 71, 128, 240),
    ),
  ),
),

```

```

    ),
    const SizedBox(height: 15),
    DropdownButton<String>(
      isExpanded: true,
      value: selectedValue, // Mengikat nilai terpilih ke dropdown
      items: <String>['Opsi', 'Opsi 2', 'Opsi 3']
        .map<DropdownMenuItem<String>>((String value) {
          return DropdownMenuItem<String>(
            value: value,
            child: Text(value),
          );
        }).toList(),
      onChanged: (String? newValue) {
        setState(() {
          selectedValue = newValue!; // Memperbarui nilai yang dipilih
        });
      },
    ),
  ],
),
),
);
}
}

class GoogleFonts {
}

```

Main.dart

```
import 'package:flutter/material.dart';

import 'package:tugas_flutter_6/my_navbar.dart'; // Sesuaikan dengan path yang benar


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: const MyBottomNavBar(), // Memastikan MyBottomNavBar ada di file my_navbar.dart
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});

  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}
```

```
class _MyHomePageState extends State<MyHomePage> {  
  int _counter = 0;  
  
  void _incrementCounter() {  
    setState(() {  
      _counter++;  
    });  
  }  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        backgroundColor: Theme.of(context).colorScheme.inversePrimary,  
        title: Text(widget.title),  
      ),  
      body: Center(  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: <Widget>[  
            const Text('You have pushed the button this many times:'),  
            Text(  
              '$_counter',  
              style: Theme.of(context).textTheme.headlineMedium,  
            ),  
          ],  
        ),  
      ),  
      floatingActionButton: FloatingActionButton(  
        onPressed: _incrementCounter,
```

```

        tooltip: 'Increment',
        child: const Icon(Icons.add),
      ),
    );
  }
}

```

My_navbar.dart

```

import 'package:flutter/material.dart';

class MyBottomNavBar extends StatefulWidget {
  const MyBottomNavBar({super.key});

  @override
  State<MyBottomNavBar> createState() =>
    _MyBottomNavBarState();
}

class _MyBottomNavBarState extends State<MyBottomNavBar> {
  int _selectedIndex = 0;

  static const TextStyle optionStyle =
    TextStyle(fontSize: 30, fontWeight:
      FontWeight.bold);

  static const List<Widget> _widgetOptions = <Widget>[
    Text(
      'My tabBar',
      style: optionStyle,
    ),
    Text(
      'My package 1',
      style: optionStyle,
    ),
    Text(

```



```

        'my package 2',
        style: optionStyle,
    ),
];

void _onItemTapped(int index) {
    setState(() {
        _selectedIndex = index;
    });
}

@override
Widget build(BuildContext context) {
    return Scaffold(
        appBar: AppBar(
            title: const Text('Bottom Navigation Bar Sample'),
        ),
        body: Center(
            child: _widgetOptions.elementAt(_selectedIndex),
        ),
        bottomNavigationBar: BottomNavigationBar(
            items: const <BottomNavigationBarItem>[
                BottomNavigationBarItem(
                    icon: Icon(Icons.home),
                    label: 'my tabbar',
                ),
                BottomNavigationBarItem(
                    icon: Icon(Icons.business),
                    label: 'my package 1',
                ),
                BottomNavigationBarItem(
                    icon: Icon(Icons.school),
                    label: 'my package 2',
                ),
            ],
        ),
    );
}

```

```

    ),
  ],
  currentIndex: _selectedIndex,
  selectedItemColor: const Color.fromARGB(255, 9, 206, 206),
  onTap: _onItemTapped,
),
);
}
}

```

My.tabbar.dart

```

import 'package:flutter/material.dart';

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: DefaultTabController(
        length: 3, // Jumlah tab
        child: Scaffold(
          appBar: AppBar(
            title: const Text('menu TabBar'),
            backgroundColor: const Color.fromARGB(255, 255, 255, 255),
            bottom: const TabBar(
              tabs: [
                Tab(
                  text: 'Tab 1'),

```

```

        Tab(text: 'Tab 2'),
        Tab(text: 'Tab 3'),
    ],
),
    ),
    body: const TabBarView(
      children: [
        Center(child: Text('isi konten menu')),

        Center(child: Text('isi konten kalender')),

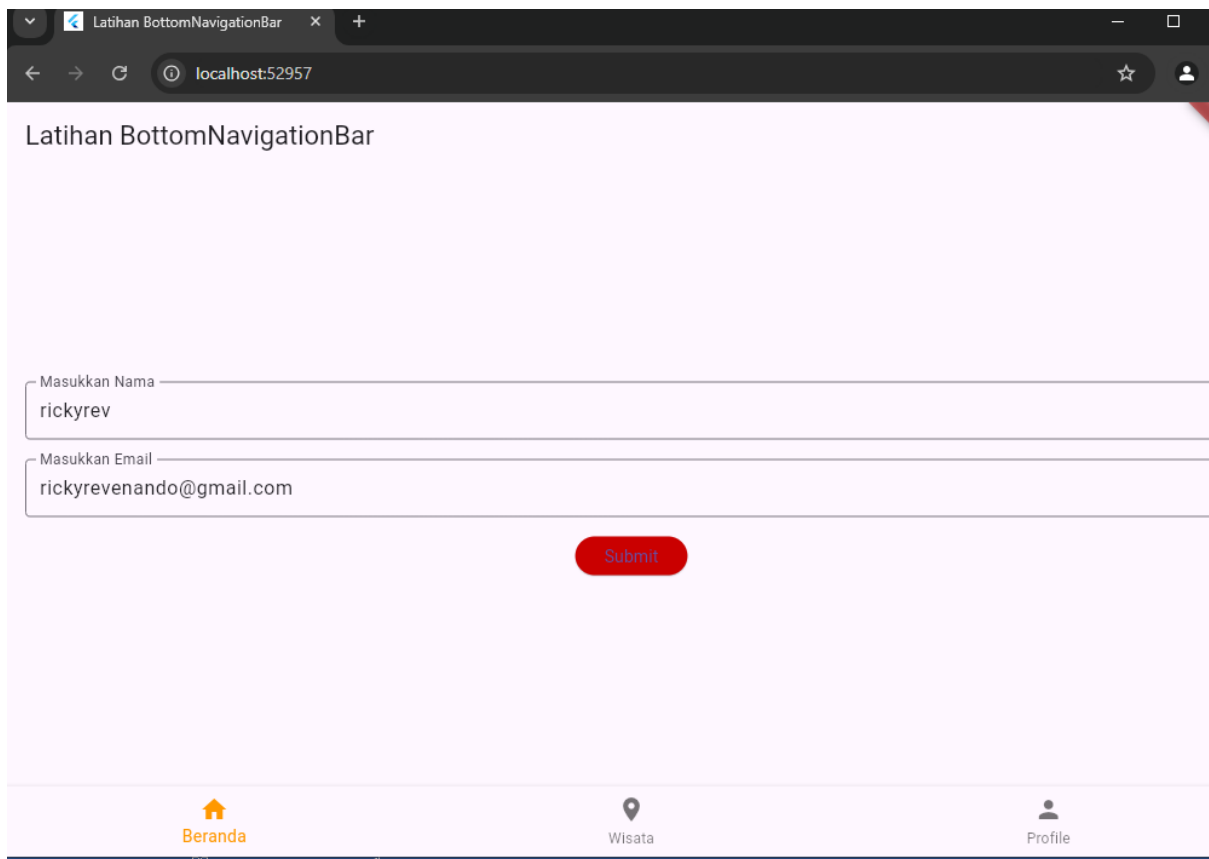
        Center(child: Text('isi Konten history')),

      ],),
    ),
  ),
);
}
}

```

Unguided

Contoh output



Main.dart

```
import 'package:flutter/material.dart';

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

class MyApp extends StatefulWidget {
  @override
  _MyAppState createState() => _MyAppState();
}

class _MyAppState extends State<MyApp> {
  int _selectedIndex = 0;
```

```

// Controller untuk form Nama dan Email

final TextEditingController _nameController = TextEditingController();
final TextEditingController _emailController = TextEditingController();

// Function untuk menampilkan hasil input dari form
void _submitForm() {
  String name = _nameController.text;
  String email = _emailController.text;
  showDialog(
    context: context,
    builder: (context) {
      return AlertDialog(
        title: Text('Data Dikirim'),
        content: Text('Nama: $name\nEmail: $email'),
        actions: [
          TextButton(
            onPressed: () {
              Navigator.of(context).pop();
            },
            child: Text('OK'),
          ),
        ],
      );
    },
  );
}

static const List<Widget> _widgetOptions = <Widget>[
  Text('Ini Halaman Wisata', style: TextStyle(fontSize: 24)),
  Text('Ini Halaman Profile', style: TextStyle(fontSize: 24)),

```

```
];
```

```
@override
```

```
Widget build(BuildContext context) {  
  return MaterialApp(  
    title: 'Latihan BottomNavigationBar',  
    theme: ThemeData(  
      primarySwatch: Colors.orange,  
    ),  
    home: Scaffold(  
      appBar: AppBar(  
        title: const Text('Latihan BottomNavigationBar'),  
      ),  
      body: Center(  
        // Menampilkan halaman Beranda dengan form input  
        child: _selectedIndex == 0  
          ? Padding(  
            padding: const EdgeInsets.all(16.0),  
            child: Column(  
              mainAxisAlignment: MainAxisAlignment.center,  
              children: <Widget>[  
                TextField(  
                  controller: _nameController,  
                  decoration: InputDecoration(  
                    labelText: 'Masukkan Nama',  
                    border: OutlineInputBorder(),  
                  ),  
                ),  
                SizedBox(height: 16),  
                TextField(  
                  controller: _emailController,
```

```

        decoration: InputDecoration(
          labelText: 'Masukkan Email',
          border: OutlineInputBorder(),
        ),
      ),
      SizedBox(height: 16),
      ElevatedButton(
        onPressed: _submitForm,
        child: Text('Submit'),
        style: ElevatedButton.styleFrom(
          backgroundColor: const Color.fromARGB(255, 202, 0, 0),
        ),
      ),
    ],
  ),
)
: _widgetOptions.elementAt(_selectedIndex - 1),
),
bottomNavigationBar: BottomNavigationBar(
  items: const <BottomNavigationBarItem>[
    BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: 'Beranda',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.place),
      label: 'Wisata',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.person),
      label: 'Profile',

```

```

        ),
      ],
      currentIndex: _selectedIndex,
      selectedItemColor: Colors.orange,
      onTap: (index) {
        setState(() {
          _selectedIndex = index;
        });
      },
    ),
  ),
);
}
}

```

TUGAS.DART

```
import 'package:flutter/material.dart';
```

```

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

```

```

class MyApp extends StatefulWidget {
  @override
  _MyAppState createState() => _MyAppState();
}

```

```
class _MyAppState extends State<MyApp> {
```



```

int _selectedIndex = 0;

PageController _pageController = PageController();

// Controller untuk form Nama dan Email

final TextEditingController _nameController = TextEditingController();
final TextEditingController _emailController = TextEditingController();

void _onItemTapped(int index) {
  setState(() {
    _selectedIndex = index;
  });
  _pageController.jumpToPage(index);
}

// Function untuk menampilkan hasil input dari form

void _submitForm() {
  String name = _nameController.text;
  String email = _emailController.text;
  showDialog(
    context: context,
    builder: (context) {
      return AlertDialog(
        title: Text('Data Dikirim'),
        content: Text('Nama: $name\nEmail: $email'),
        actions: [
          TextButton(
            onPressed: () {
              Navigator.of(context).pop();
            },
            child: Text('OK'),
          ),
        ],
      );
    },
  );
}

```

```
    ],  
  );  
},  
);  
}
```

@override

Widget build(BuildContext context) {

return MaterialApp(
 theme: ThemeData(
 primarySwatch: Colors.orange, // Menggunakan MaterialColor yang valid
),
 home: Scaffold(
 appBar: AppBar(
 title: Text('SafeArea & PageView'),
 backgroundColor: Colors.orange, // Warna yang benar
),
 body: SafeArea(
 child: PageView(
 controller: _pageController,
 onPageChanged: (index) {
 setState(() {
 _selectedIndex = index;
 });
 },
 children: <Widget>[
 // Halaman Home
 Container(
 alignment: Alignment.topCenter,
 child: Text('Home page', style: TextStyle(fontSize: 24)),
),
],
),
),
),
);
}

```
// Halaman Form Email

Padding(
  padding: const EdgeInsets.all(16.0),
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: <Widget>[
      TextField(
        controller: _nameController,
        decoration: InputDecoration(
          labelText: 'Masukkan Nama',
          border: OutlineInputBorder(),
        ),
      ),
      SizedBox(height: 16),
      TextField(
        controller: _emailController,
        decoration: InputDecoration(
          labelText: 'Masukkan Email',
          border: OutlineInputBorder(),
        ),
      ),
      SizedBox(height: 16),
      ElevatedButton(
        onPressed: _submitForm,
        child: Text('Submit'),
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.orange, // Warna yang benar
        ),
      ),
    ],
  ),
)
```

```

    ),
    // Halaman Profile
    Center(
      child: Text('Profile page', style: TextStyle(fontSize: 24)),
    ),
  ],
),
),
bottomNavigationBar: BottomNavigationBar(
  items: const <BottomNavigationBarItem>[
    BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: 'Home',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.email),
      label: 'Email',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.person),
      label: 'Profile',
    ),
  ],
  currentIndex: _selectedIndex,
  selectedItemColor: Colors.orange, // Menggunakan warna yang benar
  onTap: _onItemTapped,
),
),
);
}
}

```

