

**LAPORAN PRAKTIKUM
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL VI
INTERAKSI PENGGUNA**



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PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
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GUIDED

1. main.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:praktikum_6/myBottomTab.dart';
3 // import 'package:guided_6/myPackage.dart';
4 // import 'package:guided_6/myTabbar.dart';
5 import 'package:google_fonts/google_fonts.dart';
6
7 void main() {
8   runApp(const MyApp());
9 }
10
11 class MyApp extends StatelessWidget {
12   const MyApp({super.key});
13
14   @override
15   Widget build(BuildContext context) {
16     return MaterialApp(
17       title: 'Package Flutter',
18       theme: ThemeData(
19         colorScheme: ColorScheme.fromSeed(
20           seedColor: const Color.fromARGB(255, 158, 24, 15)),
21         useMaterial3: true,
22         textTheme: GoogleFonts.poppinsTextTheme(),
23       ),
24       home: const MyBottomTab(),
25       debugShowCheckedModeBanner: false,
26     );
27   }
28 }
29
30 class MyHomePage extends StatefulWidget {
31   const MyHomePage({super.key, required this.title});
32   final String title;
33   @override
34   State<MyHomePage> createState() => _MyHomePageState();
35 }
36
37 class _MyHomePageState extends State<MyHomePage> {
38   @override
39   Widget build(BuildContext context) {
40     return Scaffold(
41       appBar: AppBar(
42         backgroundColor: Theme.of(context).colorScheme.inversePrimary,
43         title: Text(widget.title),
44       ),
45       body: const Center(
46         child: Column(
47           mainAxisAlignment: MainAxisAlignment.center,
48           children: <Widget>[
49             const Text(
50               'Homepage',
51             ),
52           ],
53         ),
54       ),
55     );
56   }
57 }
```

2. mybottomtab.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:praktikum_6/myTabbar.dart';
3 import 'package:praktikum_6/mypackage.dart';
4
5 class MyBottomTab extends StatefulWidget {
6   const MyBottomTab({super.key});
7
8   @override
9   State<MyBottomTab> createState() => _MyBottomTabState();
10 }
11
12 class _MyBottomTabState extends State<MyBottomTab> {
13   int _currentIndex = 0;
14
15   static const List<Widget> _page = <Widget>[
16     MyTabBar(),
17     MyPackage(),
18     MyPackage()
19   ];
20
21   void _onItemTapped(int index) {
22     setState(() {
23       _currentIndex = index;
24     });
25   }
26
27   @override
28   Widget build(BuildContext context) {
29     return Scaffold(
30       appBar: AppBar(
31         title: const Text('Bottom Navbar'),
32         centerTitle: true,
33       ),
34       body: _page[_currentIndex],
35       bottomNavigationBar: BottomNavigationBar(
36         items: const <BottomNavigationBarItem>[
37           BottomNavigationBarItem(icon: Icon(Icons.home_filled), label: "Home"),
38           BottomNavigationBarItem(
39             icon: Icon(Icons.camera_enhance_rounded), label: "Post"),
40           BottomNavigationBarItem(
41             icon: Icon(Icons.account_box_rounded), label: "Account")
42         ],
43         currentIndex: _currentIndex,
44         onTap: _onItemTapped,
45         selectedItemColor: const Color.fromARGB(255, 158, 24, 15),
46       ),
47     );
48   }
49 }
```

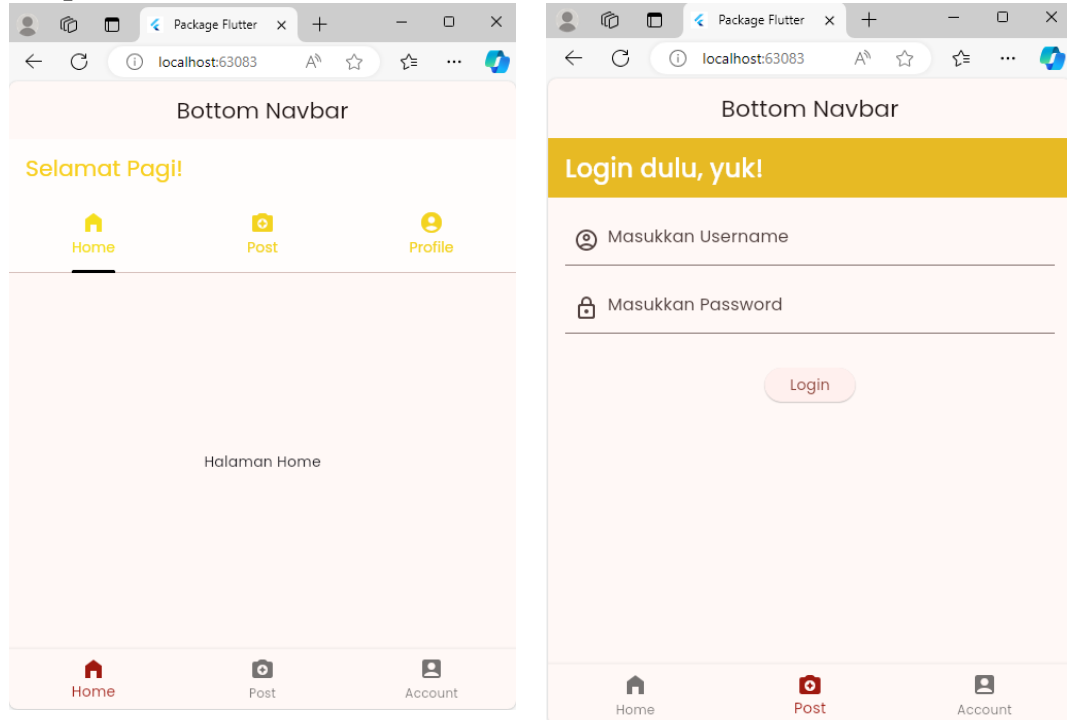
3. mypackage.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:google_fonts/google_fonts.dart';
3
4 class Mypackage extends StatelessWidget {
5   const Mypackage({super.key});
6
7   @override
8   Widget build(BuildContext context) {
9     return Scaffold(
10      appBar: AppBar(
11        title: Text(
12          'Login dulu, yuk!',
13          style: GoogleFonts.poppins(
14            fontSize: 24, fontWeight: FontWeight.w500, color: Colors.white),
15        ),
16        backgroundColor: const Color.fromARGB(255, 231, 186, 36),
17      ),
18      body: Padding(
19        padding: const EdgeInsets.all(16),
20        child: Column(
21          children: [
22            TextFormField(
23              keyboardType: TextInputType.emailAddress,
24              decoration: const InputDecoration(
25                // icon: Icon(Icons.email_outlined),
26                hintText: 'Masukkan Username',
27                prefixIcon: Icon(Icons.account_circle_outlined)),
28            ),
29            const SizedBox(
30              height: 16,
31            ),
32            TextFormField(
33              obscureText: true,
34              obscuringCharacter: '@',
35              keyboardType: TextInputType.visiblePassword,
36              decoration: const InputDecoration(
37                // icon: Icon(Icons.lock_outline_rounded),
38                hintText: 'Masukkan Password',
39                prefixIcon: Icon(Icons.lock_outline_rounded)),
40            ),
41            const SizedBox(
42              height: 32,
43            ),
44            ElevatedButton(onPressed: () {}, child: const Text('Login'))
45          ],
46        ),
47      ),
48    );
49  }
50 }
```

4. mytabbar.dart

```
1 import 'package:flutter/material.dart';
2
3 class Mytabbar extends StatefulWidget {
4   const Mytabbar({super.key});
5
6   @override
7   State<Mytabbar> createState() => _MytabbarState();
8 }
9
10 class _MytabbarState extends State<Mytabbar> {
11   @override
12   Widget build(BuildContext context) {
13     return DefaultTabController(
14       length: 3, // jumlah tab
15       child: Scaffold(
16         appBar: AppBar(
17           title: const Text(
18             'Selamat Pagi',
19             style: TextStyle(color: Color.fromARGB(255, 248, 208, 31)), // Warna teks untuk kontras
20           ),
21           backgroundColor: Colors.white70, // Warna latar belakang AppBar
22         ),
23         bottom: const TabBar(
24           labelColor: Color.fromARGB(255, 245, 223, 29), // Warna label yang dipilih
25           unselectedLabelColor: Color.fromARGB(255, 243, 211, 31), // Warna label yang tidak dipilih
26           indicatorColor: Colors.black, // Warna garis bawah indikator tab
27           tabs: [
28             Tab(
29               icon: Icon(Icons.home_filled),
30               text: "Home",
31             ),
32             Tab(
33               icon: Icon(Icons.camera_enhance_rounded),
34               text: "Post",
35             ),
36             Tab(
37               icon: Icon(Icons.account_circle),
38               text: "Profile",
39             ),
40           ],
41         ),
42         body: const TabBarView(
43           children: [
44             Center(
45               child: Text('Halaman Home'), // Konten halaman Home
46             ),
47             Center(
48               child: Text('Halaman Post'), // Konten halaman Post
49             ),
50             Center(
51               child: Text('Halaman Profile'), // Konten halaman Profile
52             ),
53           ],
54         ),
55       ),
56     );
57   }
58 }
```

Output :



Penjelasan :

Aplikasi ini merupakan implementasi dari desain antarmuka pengguna yang interaktif menggunakan Flutter, dengan memanfaatkan paket Google Fonts untuk meningkatkan tampilan teks. Struktur utama aplikasi terdiri dari beberapa halaman yang diatur dalam navigasi bawah, termasuk halaman TabBar dengan tiga tab: Home, Post, dan Profile. Selain itu, tersedia juga halaman login sederhana untuk autentikasi pengguna. Aplikasi tersebut memiliki tampilan warna yang menarik dan dapat di ubah menjadi lebih menarik.

UNGUIDED

1. main.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:flutter/services.dart';
3
4 void main() {
5   runApp(MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   @override
10  Widget build(BuildContext context) {
11    SystemChrome.setSystemUIOverlayStyle(
12      SystemUiOverlayStyle(
13        statusBarColor: Colors.orange,
14        statusBarIconBrightness: Brightness.dark,
15      ),
16    );
17
18    return MaterialApp(
19      theme: ThemeData(
20        primarySwatch: Colors.orange,
21        appBarTheme: AppBarTheme(
22          systemOverlayStyle: SystemUiOverlayStyle.dark,
23          color: Colors.orange,
24        ),
25      ),
26      home: HomePage(),
27    );
28  }
29 }
30
31 class HomePage extends StatefulWidget {
32   @override
33   _HomePageState createState() => _HomePageState();
34 }
35
36 class _HomePageState extends State<HomePage> {
37   int _selectedIndex = 0;
38   PageController _pageController = PageController();
39
40   void _onItemTapped(int index) {
41     setState(() {
42       _selectedIndex = index;
43     });
44     _pageController.jumpToPage(index);
45   }
46
47   @override
48   Widget build(BuildContext context) {
49     return Scaffold(
50       appBar: AppBar(
51         title: Text('Beranda'),
52         elevation: 0,
53       ),
54       body: SafeArea(
55         child: PageView(
56           controller: _pageController,
57           onPageChanged: (index) {
58             setState(() {
59               _selectedIndex = index;
60             });
61           },
62         ),
63       ),
64     );
65   }
66 }
```

```

1  },
2  children: [
3    // Home page with form
4    Padding(
5      padding: const EdgeInsets.all(16.0),
6      child: Column(
7        children: [
8          TextFormField(
9            keyboardType: TextInputType.name,
10           decoration: InputDecoration(
11             hintText: "Masukkan Nama",
12             enabledBorder: OutlineInputBorder(
13               borderRadius: BorderRadius.circular(8.0),
14               borderSide: BorderSide(
15                 color:
16                   Colors.blue), // Border color when not focused
17             ),
18             focusedBorder: OutlineInputBorder(
19               borderRadius: BorderRadius.circular(8.0),
20               borderSide: BorderSide(
21                 color:
22                   Colors.blueAccent), // Border color when focused
23             ),
24           ),
25         ],
26       ),
27       SizedBox(height: 16),
28       TextFormField(
29         keyboardType: TextInputType.emailAddress,
30         decoration: InputDecoration(
31           hintText: "Masukkan Email",
32           enabledBorder: OutlineInputBorder(
33             borderRadius: BorderRadius.circular(8.0),
34             borderSide: BorderSide(
35               color:
36                 Colors.blue), // Border color when not focused
37           ),
38           focusedBorder: OutlineInputBorder(
39             borderRadius: BorderRadius.circular(8.0),
40             borderSide: BorderSide(

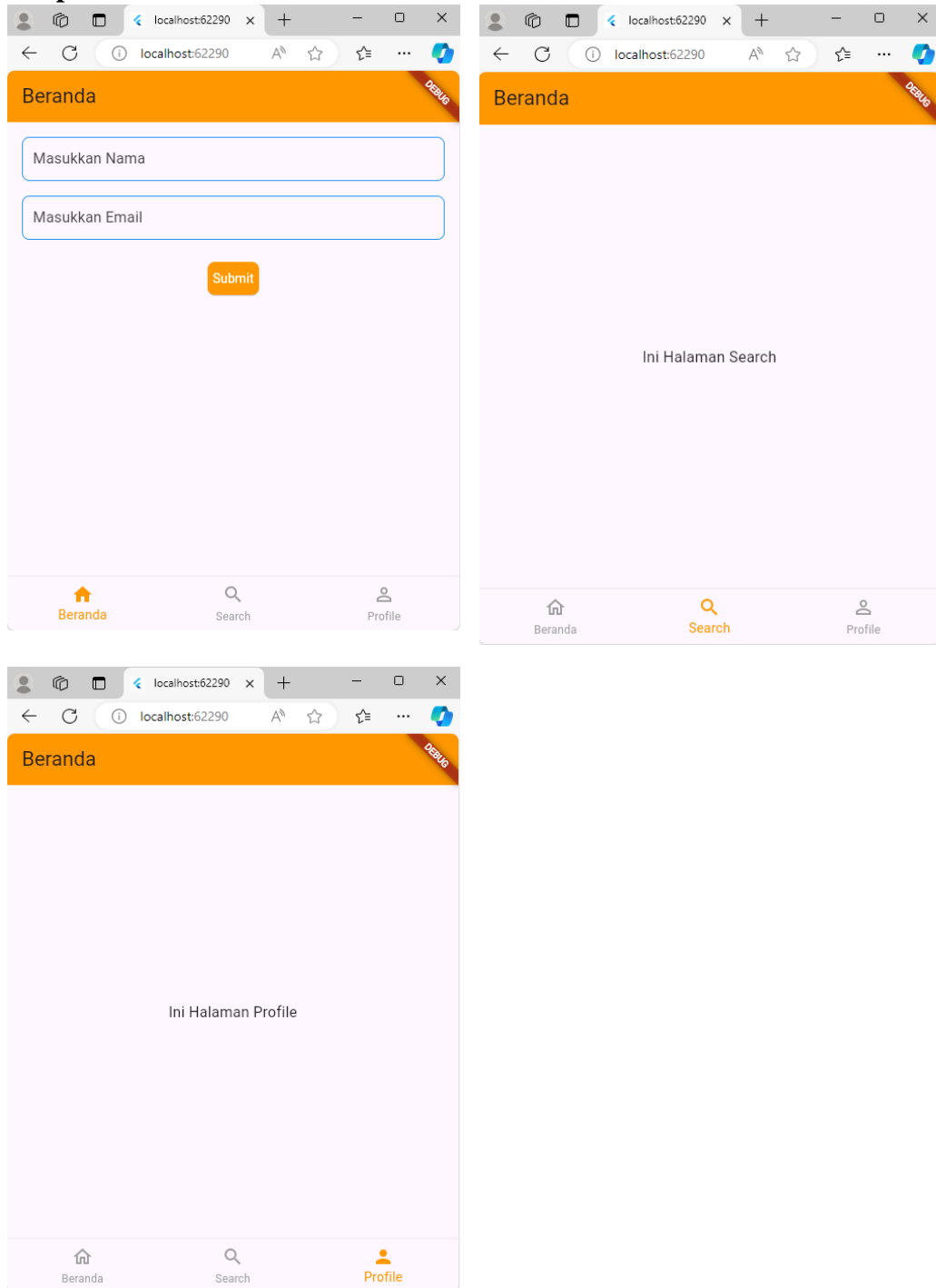
```

```

1           Colors.blueAccent), // Border color when focused
2         ),
3       ),
4     ),
5     SizedBox(height: 24),
6     ElevatedButton(
7       onPressed: () {},
8       style: ElevatedButton.styleFrom(
9         backgroundColor: Colors.orange,
10        padding: EdgeInsets.symmetric(vertical: 16),
11        shape: RoundedRectangleBorder(
12          borderRadius: BorderRadius.circular(8),
13        ),
14      ),
15      child: Text(
16        'Submit',
17        style: TextStyle(color: Colors.white),
18      ),
19    ),
20  ],
21 ),
22 ),
23 // Search page
24 Center(
25   child: Text(
26     'Ini Halaman Search',
27     style: TextStyle(fontSize: 16),
28   ),
29 ),
30 // Profile page
31 Center(
32   child: Text(
33     'Ini Halaman Profile',
34     style: TextStyle(fontSize: 16),
35   ),
36 ),
37 ],
38 ),
39 ),
40 bottomNavigationBar: BottomNavigationBar(
41   currentIndex: _selectedIndex,
42   onTap: _onItemTapped,
43   items: const <BottomNavigationBarItem>[
44     BottomNavigationBarItem(
45       icon: Icon(Icons.home_outlined),
46       activeIcon: Icon(Icons.home),
47       label: 'Beranda',
48     ),
49     BottomNavigationBarItem(
50       icon: Icon(Icons.search),
51       activeIcon: Icon(Icons.search),
52       label: 'Search',
53     ),
54     BottomNavigationBarItem(
55       icon: Icon(Icons.person_outline),
56       activeIcon: Icon(Icons.person),
57       label: 'Profile',
58     ),
59   ],
60   selectedItemColor: Colors.orange,
61   unselectedItemColor: Colors.grey,
62 ),
63 );
64 }
65
66 @override
67 void dispose() {
68   _pageController.dispose();
69   super.dispose();
70 }
71 }

```

Output :



Penjelasan:

Antarmuka aplikasi ini menampilkan halaman beranda dengan form input sederhana untuk memasukkan nama dan email. Pada bagian atas terdapat `AppBar` dengan judul "Beranda" dan latar berwarna oranye. Di tengah halaman, terdapat dua `TextField` berbingkai biru yang memungkinkan pengguna mengetik nama dan email mereka. Di bawahnya, terdapat tombol "Submit" berwarna oranye untuk mengirimkan data. Di bagian bawah layar, terdapat `BottomNavigationBar` dengan tiga ikon navigasi untuk berpindah antar halaman: "Beranda," "Search," dan "Profile." Ikon "Beranda" saat ini berwarna oranye, menandakan bahwa halaman beranda sedang aktif.