

LAPORAN PRAKTIKUM
MATA KULIAH PEMROGRAMAN MOBILE



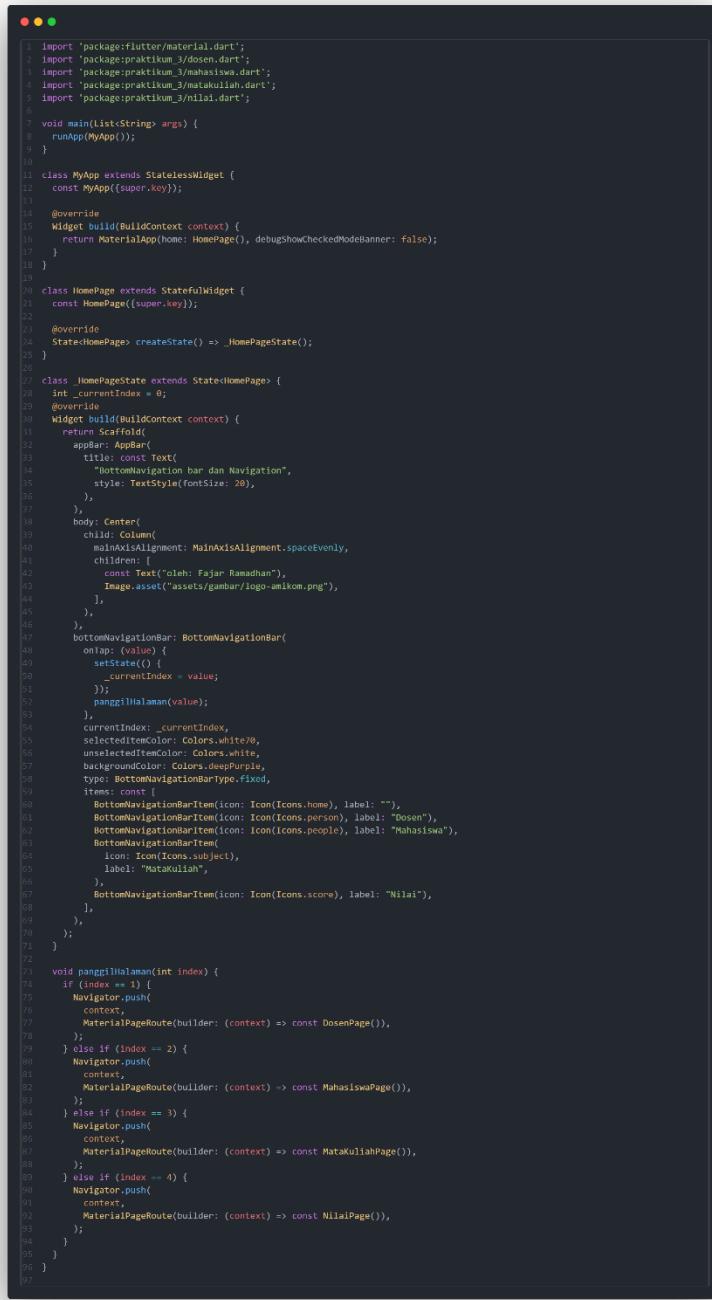
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PROGRAM STUDI TEKNOLOGI INFORMASI
FAKULTAS ILMU KOMPUTER
UNIVERSITAS AMIKOM
PURWOKERTO
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PRAKTIKUM 3

Pada praktikum 3 membuat kode program yang mengimplementasikan berbagai macam konsep: bagaimana menggunakan gambar baik secara lokal dengan konfigurasi di pubspec.yaml dan menggunakan link image dengan widget NetworkImage, implementasi dari BottomNavigationBar dimana widget ini dapat menavigasi lebih dari satu page pada aplikasi dengan bantuan routing yang diidentifikasi dengan index, kemudian implementasi dari link image as a state jadi bisa dibuat berubah isi link image berdasarkan interaksi pengguna, dan implementasi dari pop() untuk close atau mengembalikan kondisi page ke home page atau page main semula, dan beberapa penggunaan widget lainnya.

1. Kode main.dart



```
1 import 'package:flutter/material.dart';
2 import 'package:praktikum_3/dosen.dart';
3 import 'package:praktikum_3/mahasiswa.dart';
4 import 'package:praktikum_3/matakuliah.dart';
5 import 'package:praktikum_3/nilai.dart';
6
7 void main(List<String> args) {
8   runApp(MyApp());
9 }
10
11 class MyApp extends StatelessWidget {
12   const MyApp({super.key});
13
14   @override
15   Widget build(BuildContext context) {
16     return MaterialApp(home: HomePage(), debugShowCheckedModeBanner: false);
17   }
18 }
19
20 class HomePage extends StatefulWidget {
21   const HomePage({super.key});
22
23   @override
24   State<HomePage> createState() => _HomePageState();
25 }
26
27 class _HomePageState extends State<HomePage> {
28   int _currentIndex = 0;
29   @override
30   Widget build(BuildContext context) {
31     return Scaffold(
32       appBar: AppBar(
33         title: const Text(
34           "BottomNavigation bar dan Navigation",
35           style: TextStyle(fontSize: 20),
36         ),
37       ),
38       body: Center(
39         child: Column(
40           mainAxisAlignment: MainAxisAlignment.spaceEvenly,
41           children: [
42             const Text("oleh: Fajar Ramadhan"),
43             Image.asset("assets/gambar/logo-amikom.png"),
44           ],
45         ),
46       ),
47       bottomNavigationBar: BottomNavigationBar(
48         onTap: (value) {
49           setState(() {
50             _currentIndex = value;
51           });
52           panggilHalaman(value);
53         },
54         currentIndex: _currentIndex,
55         selectedItemColor: Colors.white,
56         unselectedItemColor: Colors.white,
57         backgroundColor: Colors.deepPurple,
58         type: BottomNavigationBarType.fixed,
59         items: const [
60           BottomNavigationBarItem(icon: Icon(Icons.home), label: ""),
61           BottomNavigationBarItem(icon: Icon(Icons.person), label: "Dosen"),
62           BottomNavigationBarItem(icon: Icon(Icons.people), label: "Mahasiswa"),
63           BottomNavigationBarItem(
64             icon: Icon(Icons.subject),
65             label: "Mata Kuliah",
66           ),
67           BottomNavigationBarItem(icon: Icon(Icons.score), label: "Nilai"),
68         ],
69       ),
70     );
71 }
72
73 void panggilHalaman(int index) {
74   if (index == 1) {
75     Navigator.push(
76       context,
77       MaterialPageRoute(builder: (context) => const DosenPage()),
78     );
79   } else if (index == 2) {
80     Navigator.push(
81       context,
82       MaterialPageRoute(builder: (context) => const MahasiswaPage()),
83     );
84   } else if (index == 3) {
85     Navigator.push(
86       context,
87       MaterialPageRoute(builder: (context) => const MataKuliahPage()),
88     );
89   } else if (index == 4) {
90     Navigator.push(
91       context,
92       MaterialPageRoute(builder: (context) => const NilaiPage()),
93     );
94   }
95 }
96 }
```

2. Hasil tampilan utama



3. Kode dosen.dart

```
1 import 'package:flutter/material.dart';
2 class BassPage extends StatelessWidget {
3   const BassPage({Key key});
4   @override
5   Widget build(BuildContext context) => _BassPageState();
6 }
7
8 class _BassPageState extends State<BassPage> {
9   String imgurl =
10   "https://stylecaster.com/wp-content/uploads/2017/06/emma-store-platinum-blonde.jpg?resize=768";
11   @override
12   void initState() {
13     super.initState();
14     WidgetsBinding.instance.addPostFrameCallback((_) {
15       final BassImage bassImage = BassImage(
16         title: "Bass Image",
17         height: 100,
18         width: 100,
19         colors: Colors.white,
20         decoration: BoxDecoration(
21           image: DecorationImage(
22             image: NetworkImage(imgurl),
23             fit: BoxFit.cover,
24           ),
25         ),
26       );
27       setState(() {
28         bassImage;
29       });
30     });
31   }
32   @override
33   Widget build(BuildContext context) {
34     return Scaffold(
35       body: Container(
36         color: Colors.white,
37         child: Stack(
38           children: [
39             Positioned(
40               top: 100,
41               left: 100,
42               child: Container(
43                 height: 100,
44                 width: 100,
45                 decoration: BoxDecoration(
46                   image: DecorationImage(
47                     image: NetworkImage(
48                       "https://stylecaster.com/wp-content/uploads/2017/06/emma-store-platinum-blonde.jpg?resize=768",
49                     ),
50                   fit: BoxFit.cover,
51                 ),
52                 color: Colors.grey,
53               ),
54             ),
55             Positioned(
56               top: 100,
57               left: 100,
58               child: Container(
59                 height: 100,
60                 width: 100,
61                 decoration: BoxDecoration(
62                   image: DecorationImage(
63                     image: NetworkImage(
64                       "https://imgc.allisongarcia.com/horizon/square/831086cf28ed_keanu_reeves.jpg",
65                     ),
66                   fit: BoxFit.cover,
67                 ),
68               ),
69             ),
70             Positioned(
71               top: 100,
72               left: 100,
73               child: Container(
74                 height: 100,
75                 width: 100,
76                 decoration: BoxDecoration(
77                   image: DecorationImage(
78                     image: NetworkImage(
79                       "https://imgc.allisongarcia.com/horizon/square/831086cf28ed_keanu_reeves.jpg",
80                     ),
81                   fit: BoxFit.cover,
82                 ),
83               ),
84             ),
85           ],
86         ),
87       ),
88     );
89   }
90 }
```

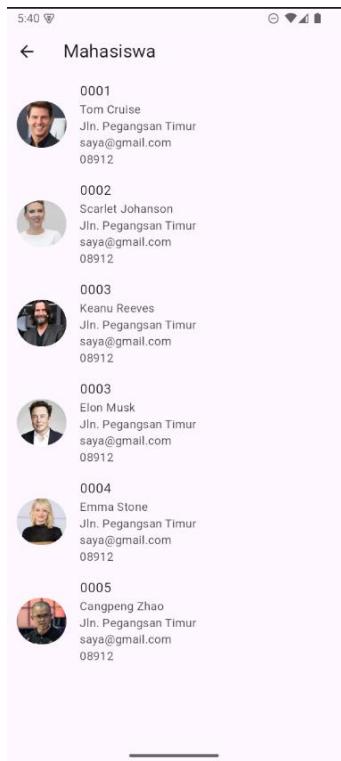
4. Hasil tampilan dosen.dart



5. Kode mahasiswa.dart

```
1 import 'package:flutter/material.dart';
2
3 class MahasiswaPage extends StatelessWidget {
4   const MahasiswaPage({super.key});
5
6   @override
7   Widget build(BuildContext context) {
8     return Scaffold(
9       appBar: AppBar(title: Text("Mahasiswa")),
10      body: ListView(
11        children: [
12          ListTile(
13            leading: Container(
14              height: 60,
15              width: 60,
16              decoration: BoxDecoration(
17                color: Colors.grey,
18                borderRadius: BorderRadius.circular(50),
19                image: const DecorationImage(
20                  fit: BoxFit.cover,
21                  image: NetworkImage(
22                      "https://ih-langs.com/th/id/v-470ef44ab980c0df0dc29afab7e8b-istimewa-a",
23                    ),
24                  fit: BoxFit.cover,
25                ),
26              ),
27              subtitle: const Column(
28                crossAxisAlignment: CrossAxisAlignment.start,
29                children: [
30                  Text("Name"),
31                  Text("Jln. Pegangan Timur"),
32                  Text("sayagmail.com"),
33                  Text("08912"),
34                ],
35              ),
36            ),
37            title: Container(
38              height: 60,
39              width: 60,
40              decoration: BoxDecoration(
41                color: Colors.grey,
42                borderRadius: BorderRadius.circular(50),
43                image: const DecorationImage(
44                  fit: BoxFit.cover,
45                  image: NetworkImage(
46                      "https://rahelmitra.com/wp-content/uploads/2019/04/samuel-johnston-avenger-endgame-press-conference-te-ia-17.jpg",
47                    ),
48                  fit: BoxFit.cover,
49                ),
50              ),
51              subtitle: const Text("WMA"),
52              subtitle: const Column(
53                crossAxisAlignment: CrossAxisAlignment.start,
54                children: [
55                  Text("Name"),
56                  Text("Jln. Pegangan Timur"),
57                  Text("sayagmail.com"),
58                  Text("08912"),
59                ],
60              ),
61            ),
62            title: Container(
63              height: 60,
64              width: 60,
65              decoration: BoxDecoration(
66                color: Colors.grey,
67                borderRadius: BorderRadius.circular(50),
68                image: const DecorationImage(
69                  fit: BoxFit.cover,
70                  image: NetworkImage(
71                      "https://target-magazine.com/horizon/square/02816-f28d-keanu-reeves-30g",
72                    ),
73                  fit: BoxFit.cover,
74                ),
75              ),
76              subtitle: const Text("WMD"),
77              subtitle: const Column(
78                crossAxisAlignment: CrossAxisAlignment.start,
79                children: [
80                  Text("Name"),
81                  Text("Jln. Pegangan Timur"),
82                  Text("sayagmail.com"),
83                  Text("08912"),
84                ],
85              ),
86            ),
87            title: Container(
88              height: 60,
89              width: 60,
90              decoration: BoxDecoration(
91                color: Colors.grey,
92                borderRadius: BorderRadius.circular(50),
93                image: const DecorationImage(
94                  fit: BoxFit.cover,
95                  image: NetworkImage(
96                      "https://ih-langs.com/th/id/v-470ef44ab980c0df0dc29afab7e8b-istimewa-a",
97                    ),
98                  fit: BoxFit.cover,
99                ),
100              ),
101              subtitle: const Text("WMD"),
102              subtitle: const Column(
103                crossAxisAlignment: CrossAxisAlignment.start,
104                children: [
105                  Text("Name"),
106                  Text("Jln. Pegangan Timur"),
107                  Text("sayagmail.com"),
108                  Text("08912"),
109                ],
110              ),
111            ),
112            title: Container(
113              height: 60,
114              width: 60,
115              decoration: BoxDecoration(
116                color: Colors.grey,
117                borderRadius: BorderRadius.circular(50),
118                image: const DecorationImage(
119                  fit: BoxFit.cover,
120                  image: NetworkImage(
121                      "https://ih-langs.com/th/id/v-470ef44ab980c0df0dc29afab7e8b-istimewa-a",
122                    ),
123                  fit: BoxFit.cover,
124                ),
125              ),
126              subtitle: const Text("WMD"),
127              subtitle: const Column(
128                crossAxisAlignment: CrossAxisAlignment.start,
129                children: [
130                  Text("Name"),
131                  Text("Jln. Pegangan Timur"),
132                  Text("sayagmail.com"),
133                  Text("08912"),
134                ],
135              ),
136            ),
137            title: Container(
138              height: 60,
139              width: 60,
140              decoration: BoxDecoration(
141                color: Colors.grey,
142                borderRadius: BorderRadius.circular(50),
143                image: const DecorationImage(
144                  fit: BoxFit.cover,
145                  image: NetworkImage(
146                      "https://ih-langs.com/th/id/v-470ef44ab980c0df0dc29afab7e8b-istimewa-a",
147                    ),
148                  fit: BoxFit.cover,
149                ),
150              ),
151              subtitle: const Text("WMD"),
152              subtitle: const Column(
153                crossAxisAlignment: CrossAxisAlignment.start,
154                children: [
155                  Text("Name"),
156                  Text("Jln. Pegangan Timur"),
157                  Text("sayagmail.com"),
158                  Text("08912"),
159                ],
160              ),
161            ),
162            title: Container(
163              height: 60,
164              width: 60,
165              decoration: BoxDecoration(
166                color: Colors.grey,
167                borderRadius: BorderRadius.circular(50),
168                image: const DecorationImage(
169                  fit: BoxFit.cover,
170                  image: NetworkImage(
171                      "https://ih-langs.com/th/id/v-470ef44ab980c0df0dc29afab7e8b-istimewa-a",
172                    ),
173                  fit: BoxFit.cover,
174                ),
175              ),
176              subtitle: const Text("WMD"),
177              subtitle: const Column(
178                crossAxisAlignment: CrossAxisAlignment.start,
```

6. hasil mahasiswa.dart



7. kode matakuliah.dart

```
1 import 'package:flutter/material.dart';
2
3 class MataKuliahPage extends StatefulWidget {
4   const MataKuliahPage({super.key});
5
6   @override
7   State<MataKuliahPage> createState() => _MataKuliahPageState();
8 }
9
10 class _MataKuliahPageState extends State<MataKuliahPage> {
11   @override
12   Widget build(BuildContext context) {
13     return Scaffold(
14       appBar: AppBar(title: Text("Matakuliah")),
15       body: Column(
16         mainAxisAlignment: MainAxisAlignment.center,
17         children: [
18           Center(child: Text("Ini halaman Matakuliah")),
19           IconButton(
20             onPressed: () {
21               Navigator.pop(context);
22             },
23             icon: Icon(Icons.exit_to_app, size: 50),
24           ),
25           ],
26         );
27     }
28   }
29 }
```

8. Hasil matakuliah.dart



9. kode nilai.dart

```
1 import 'package:flutter/material.dart';
2
3 class NilaiPage extends StatefulWidget {
4   const NilaiPage({super.key});
5
6   @override
7   State<NilaiPage> createState() => _NilaiPageState();
8 }
9
10 class _NilaiPageState extends State<NilaiPage> {
11   @override
12   Widget build(BuildContext context) {
13     return Scaffold(
14       appBar: AppBar(title: Text("Nilai")),
15       body: Center(child: Text("Ini Nilai Page")),
16     );
17   }
18 }
19
```

10. Hasil nilai.dart

