

LAPORAN TUGAS BESAR
PEMROGRAMAN MOBILE
“OCR TEXT”



Disusun Oleh:

Kelompok 5 – TI-3C

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
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1. Link github: https://github.com/Iemaduddin/OCR_FLUTTER
2. Dependencies (pubspec.yaml)

```
1  name: image_picker_flutter
2  description: A new Flutter project.
3  publish_to: "none"
4  version: 1.0.0+1
5
6  environment:
7    sdk: ">=3.0.5 <4.0.0"
8
9  dependencies:
10   flutter:
11     sdk: flutter
12   cupertino_icons: ^1.0.2
13   image_picker: ^1.0.2
14   dotted_border: ^2.0.0+3
15   http: 0.13.6
16   dio: ^4.0.0
17   gallery_saver: ^2.3.2
18   flutter_launcher_icons: ^0.13.1
19   scrollable_positioned_list: ^0.3.8
20   carousel_slider: ^4.2.1
21   url_launcher: ^6.2.2
22   font_awesome_flutter: ^10.6.0
23
24  dev_dependencies:
25   flutter_test:
26     sdk: flutter
27   flutter_lints: ^2.0.0
28
29  flutter_launcher_icons:
30    android: "launcher_icon"
31    ios: true
32    image_path: "assets/icons/ocr_text.png"
33    min_sdk_android: 21
34
35  flutter:
36    uses-material-design: true
37    assets:
38      - assets/imgs/
39      - assets/icons/ocr_text.png
40      - assets/icons/ocr_text_home.png
41      - assets/icons/ocr_text_sidebar.png
42      - assets/icons/ocr_text_tanpaNama.png
43      - assets/imgs/onboarding-bg.png
44      - assets/imgs/bg-profile.png
45      - assets/imgs/profile-img.jpg
46      - assets/imgs/album-1.jpg
47      - assets/imgs/album-2.jpg
48      - assets/imgs/album-3.jpg
49      - assets/imgs/album-4.jpg
50      - assets/imgs/album-5.jpg
51      - assets/imgs/album-6.jpg
52      - assets/imgs/onboarding-free.png
53      - assets/imgs/aldi.jpg
54      - assets/imgs/didin.jpg
55      - assets/imgs/anhar.jpg
56      - assets/imgs/kryсна.jpg
57      - assets/imgs/rizqi.jpg
58      - assets/imgs/yusril.jpg
59
```

3. main.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:flutter/services.dart';
3 import 'package:image_picker_flutter/screens/ocr.dart';
4 import 'package:image_picker_flutter/screens/home.dart';
5 import 'package:image_picker_flutter/screens/onboarding.dart';
6 import 'package:image_picker_flutter/screens/profile_aldi.dart';
7 import 'package:image_picker_flutter/screens/profile_anhar.dart';
8 import 'package:image_picker_flutter/screens/profile_didin.dart';
9 import 'package:image_picker_flutter/screens/profile_kryсна.dart';
10 import 'package:image_picker_flutter/screens/profile_rizqi.dart';
11 import 'package:image_picker_flutter/screens/profile_yusril.dart';
12
13 void main() {
14   runApp(const MyApp());
15 }
16
17 class MyApp extends StatelessWidget {
18   const MyApp({super.key});
19
20   @override
21   Widget build(BuildContext context) {
22     SystemChrome.setSystemUIOverlayStyle(
23       SystemUiOverlayStyle.light.copyWith(
24         systemNavigationBarIconBrightness: Brightness.dark,
25         systemNavigationBarColor: Colors.white,
26         statusBarIconBrightness: Brightness.light,
27         statusBarColor: Colors.black,
28       ),
29     );
30
31     return MaterialApp(
32       debugShowCheckedModeBanner: false,
33       title: 'OCR',
34       theme: ThemeData(
35         primarySwatch: Colors.blue,
36       ),
37       initialRoute: '/onboarding',
38       routes: <String, WidgetBuilder>{
39         '/home': (BuildContext context) => new Home(),
40         '/onboarding': (BuildContext context) => new Onboarding(),
41         '/profile_aldi': (BuildContext context) => new ProfileAldi(),
42         '/profile_didin': (BuildContext context) => new ProfileDidin(),
43         '/profile_anhar': (BuildContext context) => new ProfileAnhar(),
44         '/profile_kryсна': (BuildContext context) => new ProfileKryсна(),
45         '/profile_rizqi': (BuildContext context) => new ProfileRizqi(),
46         '/profile_yusril': (BuildContext context) => new ProfileYusril(),
47         '/home_page': (BuildContext context) => new MyPage(),
48       });
49   }
50 }
51
```

4. Halaman Awal (Onboarding)

- onboarding.dart

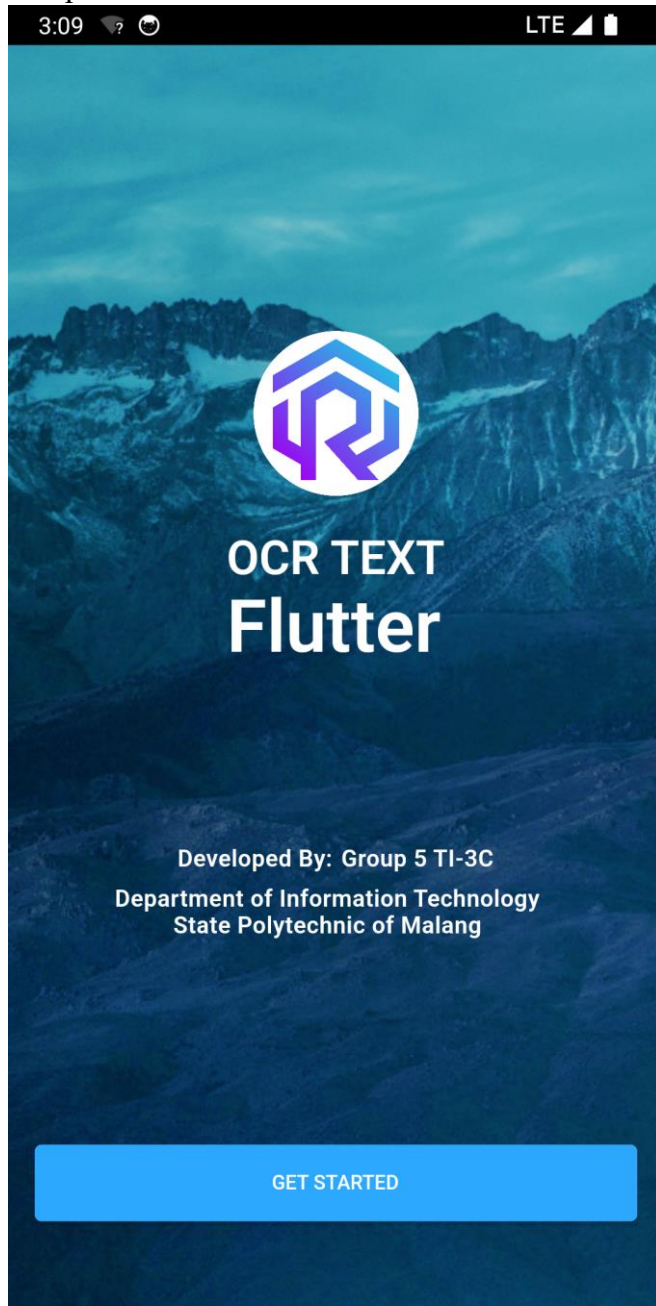
```
1 import 'dart:ui';
2 import 'package:flutter/material.dart';
3
4 import 'package:image_picker_flutter/constants/Theme.dart';
5
6 class Onboarding extends StatelessWidget {
7   @override
8   Widget build(BuildContext context) {
9     return Scaffold(
10      body: Stack(
11        children: [
12          Container(
13            decoration: BoxDecoration(
14              image: DecorationImage(
15                image: AssetImage("assets/imgs/onboarding-free.png"),
16                fit: BoxFit.cover)),
17          SafeArea(
18            child: Container(
19              padding: EdgeInsets.only(
20                left: 16.0,
21                right: 16.0,
22                top: MediaQuery.of(context).size.height * 0.15),
23              child: Column(
24                mainAxisAlignment: MainAxisAlignment.spaceAround,
25                children: [
26                  Column(
27                    children: [
28                      Image.asset(
29                        "assets/icons/ocr_text_home.png",
30                        width: 100,
31                      ),
32                      SizedBox(height: 20),
33                      Container(
34                        child: Center(
35                          child: Column(
36                            children: [
37                              Container(
38                                width: MediaQuery.of(context).size.width / 3,
39                                child: FittedBox(
40                                  fit: BoxFit.contain,
41                                  child: Text("OCR TEXT",
42                                    style: TextStyle(
43                                      color: NowUIColors.white,
44                                      fontWeight: FontWeight.w600))),
45                              Container(
46                                width: MediaQuery.of(context).size.width / 3,
47                                child: FittedBox(
48                                  fit: BoxFit.contain,
49                                  child: Text("Flutter",
50                                    style: TextStyle(
51                                      color: NowUIColors.white,
52                                      fontWeight: FontWeight.w600))),
53                            ],
54                          ),
55                        ),
56                    ],
57                  ),
```

```

58         Column(
59             children: [
60                 Row(
61                     mainAxisAlignment: MainAxisAlignment.center,
62                     crossAxisAlignment: CrossAxisAlignment.center,
63                     children: [
64                         Text("Developed By:",
65                             style: TextStyle(
66                                 color: NowUIColors.white,
67                                 fontWeight: FontWeight.w600,
68                                 letterSpacing: 0.3)),
69                         SizedBox(width: 5.0),
70                         Text("Group 5 TI-3C",
71                             style: TextStyle(
72                                 color: NowUIColors.white,
73                                 fontWeight: FontWeight.w600,
74                                 letterSpacing: 0.3)),
75                     ],
76                 ),
77                 SizedBox(height: 8.0),
78                 Row(
79                     mainAxisAlignment: MainAxisAlignment.center,
80                     crossAxisAlignment: CrossAxisAlignment.center,
81                     children: [
82                         Text("Department of Information Technology",
83                             style: TextStyle(
84                                 color: NowUIColors.white,
85                                 fontWeight: FontWeight.w600,
86                                 letterSpacing: 0.3)),
87                         SizedBox(width: 10.0),
88                     ],
89                 ),
90                 Row(
91                     mainAxisAlignment: MainAxisAlignment.center,
92                     crossAxisAlignment: CrossAxisAlignment.center,
93                     children: [
94                         Text("State Polytechnic of Malang",
95                             style: TextStyle(
96                                 color: NowUIColors.white,
97                                 fontWeight: FontWeight.w600,
98                                 letterSpacing: 0.3)),
99                         SizedBox(width: 10.0),
100                     ],
101                 ),
102             ],
103         ),
104         Padding(
105             padding: const EdgeInsets.only(top: 16.0),
106             child: SizedBox(
107                 width: double.infinity,
108                 child: ElevatedButton(
109                     onPressed: () {
110                         Navigator.pushReplacementNamed(context, '/home');
111                     },
112                     style: ElevatedButton.styleFrom(
113                         primary: NowUIColors.info,
114                         shape: RoundedRectangleBorder(
115                             borderRadius: BorderRadius.circular(4.0),
116                         ),
117                     ),
118                     child: Padding(
119                         padding: EdgeInsets.only(
120                             left: 16.0, right: 16.0, top: 16, bottom: 16),
121                         child: Text(
122                             "GET STARTED",
123                             style: TextStyle(fontSize: 12.0),
124                         ),
125                     ),
126                 ),
127             ),
128         ),
129     ],
130 ),
131 ),
132 ),
133 ],
134 ));
135 }
136 }
137

```

- Tampilan



5. Sidebar

- drawer.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:url_launcher/url_launcher.dart';
3 import 'package:font_awesome_flutter/font_awesome_flutter.dart';
4
5 import 'package:image_picker_flutter/constants/Theme.dart';
6
7 import 'package:image_picker_flutter/widgets/drawer_tile.dart';
8
9 class NowDrawer extends StatelessWidget {
10   final String currentPage;
11
12   NowDrawer({required this.currentPage});
13
14   @override
15   Widget build(BuildContext context) {
16     return Drawer(
17       child: Container(
18         color: NowUIColors.white,
19         child: Column(children: [
20           Container(
21             height: MediaQuery.of(context).size.height * 0.1,
22             width: MediaQuery.of(context).size.width * 0.85,
23             child: SafeArea(
24               bottom: false,
25               child: Padding(
26                 padding: const EdgeInsets.only(left: 24.0, right: 20.0),
27                 child: Row(
28                   mainAxisAlignment: MainAxisAlignment.spaceBetween,
29                   crossAxisAlignment: CrossAxisAlignment.baseline,
30                   textBaseline: TextBaseline.alphabetic,
31                   children: [
32                     Image.asset("assets/icons/ocr_text_sidebar.png"),
33                     Padding(
34                       padding: const EdgeInsets.only(top: 10.0),
35                       child: IconButton(
36                         icon: Icon(Icons.menu,
37                           color: NowUIColors.secondary.withOpacity(0.82),
38                           size: 24.0),
39                         onPressed: () {
40                           Navigator.of(context).pop();
41                         },
42                       ),
43                     ],
44                   ),
45                 ),
46               ),
47             Expanded(
48               flex: 2,
49               child: ListView(
50                 padding: EdgeInsets.only(top: 36, left: 8, right: 16),
51                 children: [
52                   DrawerTile(
53                     icon: FontAwesomeIcons.home,
54                     onTap: () {
55                       if (currentPage != "Home")
56                         Navigator.pushReplacementNamed(context, '/home');
57                     },
58                     iconColor: NowUIColors.info,
59                     title: "Home",
60                     isSelected: currentPage == "Home" ? true : false),
61                   DrawerTile(
62                     icon: FontAwesomeIcons.barcode,
63                     onTap: () {
64                       if (currentPage != "ocr")
65                         Navigator.pushReplacementNamed(context, '/home_page');
66                     },
67                     iconColor: NowUIColors.info,
68                     title: "Scan OCR",
69                     isSelected: currentPage == "ocr" ? true : false),
70
71                   // Profile Submenu
72                   ExpansionTile(
73                     leading: Icon(
74                       FontAwesomeIcons.user,
75                       color: NowUIColors.primary,
76                       size: 20,
77                     ),
78                     title: Text(
79                       "Profile",
80                       style: TextStyle(
81                         color: NowUIColors.primary,
82                       ),
83                     ),
84
```

```

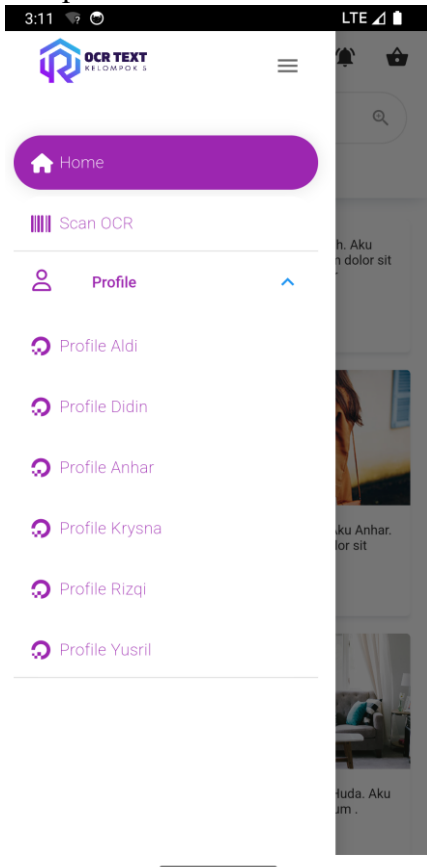
84         children: [
85             DrawerTile(
86                 icon: FontAwesomeIcons.digitalOcean,
87                 onTap: () {
88                     if (currentPage != "Profile Aldi") {
89                         Navigator.pushReplacementNamed(
90                             context, '/profile_aldi');
91                     }
92                 },
93                 iconColor: NowUIColors.primary,
94                 title: "Profile Aldi",
95                 isSelected: currentPage == "Profile Aldi",
96             ),
97             DrawerTile(
98                 icon: FontAwesomeIcons.digitalOcean,
99                 onTap: () {
100                     if (currentPage != "Profile Didin") {
101                         Navigator.pushReplacementNamed(
102                             context, '/profile_didin');
103                     }
104                 },
105                 iconColor: NowUIColors.primary,
106                 title: "Profile Didin",
107                 isSelected: currentPage == "Profile Didin",
108             ),
109             DrawerTile(
110                 icon: FontAwesomeIcons.digitalOcean,
111                 onTap: () {
112                     if (currentPage != "Profile Anhar") {
113                         Navigator.pushReplacementNamed(
114                             context, '/profile_anhar');
115                     }
116                 },
117                 iconColor: NowUIColors.primary,
118                 title: "Profile Anhar",
119                 isSelected: currentPage == "Profile Anhar",
120             ),
121             DrawerTile(
122                 icon: FontAwesomeIcons.digitalOcean,
123                 onTap: () {
124                     if (currentPage != "Profile Krysna") {
125                         Navigator.pushReplacementNamed(
126                             context, '/profile_krysna');
127                     }
128                 },
129                 iconColor: NowUIColors.primary,
130                 title: "Profile Krysna",
131                 isSelected: currentPage == "Profile Krysna",
132             ),
133             DrawerTile(
134                 icon: FontAwesomeIcons.digitalOcean,
135                 onTap: () {
136                     if (currentPage != "Profile Rizqi") {
137                         Navigator.pushReplacementNamed(
138                             context, '/profile_rizqi');
139                     }
140                 },
141                 iconColor: NowUIColors.primary,
142                 title: "Profile Rizqi",
143                 isSelected: currentPage == "Profile Rizqi",
144             ),
145             DrawerTile(
146                 icon: FontAwesomeIcons.digitalOcean,
147                 onTap: () {
148                     if (currentPage != "Profile Yusril") {
149                         Navigator.pushReplacementNamed(
150                             context, '/profile_yusril');
151                     }
152                 },
153                 iconColor: NowUIColors.primary,
154                 title: "Profile Yusril",
155                 isSelected: currentPage == "Profile Yusril",
156             ),
157         ],
158     ),
159 ],
160 ),
161 ),
162 ));
163 }
164 }
165 }
166

```


- drawer_tile.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:image_picker_flutter/constants/Theme.dart';
3
4 class DrawerTile extends StatelessWidget {
5   final String title;
6   final IconData icon;
7   final VoidCallback? onTap;
8   final bool isSelected;
9   final Color iconColor;
10
11   DrawerTile({
12     this.title = "",
13     this.icon = Icons
14       .error, // Provide a default icon or replace it with an appropriate one
15     this.onTap,
16     this.isSelected = false,
17     this.iconColor = NowUIColors.text,
18   });
19
20   @override
21   Widget build(BuildContext context) {
22     return GestureDetector(
23       onTap: onTap,
24       child: Container(
25         margin: EdgeInsets.only(top: 6),
26         padding: EdgeInsets.all(16),
27         decoration: BoxDecoration(
28           boxShadow: [
29             BoxShadow(
30               color: isSelected
31                 ? NowUIColors.black.withOpacity(0.07)
32                 : Colors.transparent,
33               offset: Offset(0, 0.5),
34               spreadRadius: 3,
35               blurRadius: 10,
36             ),
37           ],
38           color: isSelected ? NowUIColors.primary : NowUIColors.white,
39           borderRadius: BorderRadius.all(Radius.circular(54)),
40         ),
41       child: Row(
42         children: [
43           Icon(
44             icon,
45             size: 18,
46             color: isSelected ? NowUIColors.white : NowUIColors.primary,
47           ),
48           Padding(
49             padding: const EdgeInsets.only(left: 8.0),
50             child: Text(
51               title,
52               style: TextStyle(
53                 letterSpacing: .3,
54                 fontSize: 15,
55                 fontWeight: FontWeight.w200,
56                 color: isSelected ? NowUIColors.white : NowUIColors.primary,
57               ),
58             ),
59           ),
60         ],
61       ),
62     ),
63   );
64 }
65
66
```

- Tampilan



6. Halaman Home

- home.dart

```
1 import 'package:flutter/material.dart';
2
3 import 'package:image_picker_flutter/constants/Theme.dart';
4
5 //widgets
6 import 'package:image_picker_flutter/widgets/navbar.dart';
7 import 'package:image_picker_flutter/widgets/card-horizontal.dart';
8 import 'package:image_picker_flutter/widgets/card-small.dart';
9 import 'package:image_picker_flutter/widgets/drawer.dart';
10
11 // import 'package:image_picker_flutter/screens/product.dart';
12
13 final Map<String, Map<String, String>> homeCards = {
14   "Aldi": {
15     "title":
16       "Arsinal Aldiansyah. Aku Aldi. Lorem ipsum dolor sit amet consectetur adipisicing elit.",
17     "image":
18       "https://images.unsplash.com/photo-1506744038136-46273834b3fb?ixlib=rb-1.2.1&ixid=eyJhcnBfawQ1OjEyMDd9&auto=format&fit=crop&w=750&q=80"
19   },
20   "Didin": {
21     "title": "Iemaduddin. Aku Didin. Lorem ipsum dolor sit.",
22     "image":
23       "https://images.unsplash.com/photo-1519368358672-25b03afee3bf?ixlib=rb-1.2.1&ixid=eyJhcnBfawQ1OjEyMDd9&auto=format&fit=crop&w=2004&q=80"
24   },
25   "Anhar": {
26     "title": "Kholid Maulidi. Aku Anhar. Lorem ipsum dolor.",
27     "image":
28       "https://raw.githubusercontent.com/creativetimofficial/public-assets/master/now-ui-pro-react-native/bg40.jpg"
29   },
30   "Krysna": {
31     "title": "Krysna Rachmat. Aku Krysna. Lorem ipsum dolor sit.",
32     "image":
33       "https://images.unsplash.com/photo-1536686763189-829249e085ac?ixlib=rb-1.2.1&ixid=eyJhcnBfawQ1OjEyMDd9&auto=format&fit=crop&w=705&q=80"
34   },
35   "Rizqi": {
36     "title": "Rizqi Rohmatul Huda. Aku Rizqi. Lorem ipsum .",
37     "image":
38       "https://raw.githubusercontent.com/creativetimofficial/public-assets/master/now-ui-pro-react-native/project21.jpg"
39   },
40   "Yusril": {
41     "title":
42       "Yusril Ihza. Aku yusril. Lorem ipsum dolor sit amet consectetur adipisicing elit.",
43     "image":
44       "https://raw.githubusercontent.com/creativetimofficial/public-assets/master/now-ui-pro-react-native/project21.jpg"
45   }
46 };
```

```

48 class Home extends StatelessWidget {
49   @override
50   Widget build(BuildContext context) {
51     return Scaffold(
52       appBar: AppBar(
53         title: "Home",
54         searchBar: true,
55         // categoryOne: "Trending",
56         // categoryTwo: "Fashion",
57         currentPage: () {},
58         searchController: TextEditingController(),
59         searchOnChanged: (String value) {},
60         tags: [],
61       ),
62       backgroundColor: NowUIColors.bgColorScreen,
63       drawer: NowDrawer(currentPage: "Home"),
64       body: Container(
65         padding: EdgeInsets.only(left: 16.0, right: 16.0),
66         child: SingleChildScrollView(
67           child: Column(
68             children: [
69               Padding(
70                 padding: const EdgeInsets.only(top: 16.0),
71                 child: CardHorizontal(
72                   cta: "View Profile",
73                   title: homeCards["Aldi"]?['title'] ?? "",
74                   img: homeCards["Aldi"]?['image'] ?? "",
75                   tap: () {
76                     Navigator.pushNamed(context, '/profile_aldi');
77                   },
78                 ),
79               ),
80               SizedBox(height: 8.0),
81               Row(
82                 mainAxisAlignment: MainAxisAlignment.spaceBetween,
83                 children: [
84                   CardSmall(
85                     cta: "View Profile",
86                     title: homeCards["Didin"]?['title'] ?? "",
87                     img: homeCards["Didin"]?['image'] ?? "",
88                     tap: () {
89                       Navigator.pushNamed(context, '/profile_didin');
90                     },
91                   ),
92                   CardSmall(
93                     cta: "View Profile",
94                     title: homeCards["Anhar"]?['title'] ?? "",
95                     img: homeCards["Anhar"]?['image'] ?? "",
96                     tap: () {
97                       Navigator.pushNamed(context, '/profile_anhar');
98                     },
99                   ),
100                 ],
101               ),
102               SizedBox(height: 8.0),
103               Row(
104                 mainAxisAlignment: MainAxisAlignment.spaceBetween,
105                 children: [
106                   CardSmall(
107                     cta: "View Profile",
108                     title: homeCards["Krysna"]?['title'] ?? "",
109                     img: homeCards["Krysna"]?['image'] ?? "",
110                     tap: () {
111                       Navigator.pushNamed(context, '/profile_krysna');
112                     },
113                   ),
114                   CardSmall(
115                     cta: "View Profile",
116                     title: homeCards["Rizqi"]?['title'] ?? "",
117                     img: homeCards["Rizqi"]?['image'] ?? "",
118                     tap: () {
119                       Navigator.pushNamed(context, '/profile_rizqi');
120                     },
121                   ),
122                 ],
123               ),
124               SizedBox(height: 8.0),
125               CardHorizontal(
126                 cta: "View Profile",
127                 title: homeCards["Yusril"]?['title'] ?? "",
128                 img: homeCards["Yusril"]?['image'] ?? "",
129                 tap: () {
130                   Navigator.pushNamed(context, '/profile_yusril');
131                 },
132               ),
133             ],
134           ),
135         ),
136       ),
137     );
138   }
139 }
140

```

- input.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:image_picker_flutter/constants/Theme.dart';
3
4 class Input extends StatelessWidget {
5   final String placeholder;
6   final Widget? suffixIcon;
7   final Widget? prefixIcon;
8   final VoidCallback? onTap;
9   final ValueChanged<String>? onChanged;
10  final TextEditingController? controller;
11  final bool autofocus;
12  final Color borderColor;
13
14  Input({
15    this.placeholder = "",
16    this.suffixIcon,
17    this.prefixIcon,
18    this.onTap,
19    this.onChanged,
20    this.autofocus = false,
21    this.borderColor = NowUIColors.border,
22    this.controller,
23  });
24
25  @override
26  Widget build(BuildContext context) {
27    return TextField(
28      cursorColor: NowUIColors.muted,
29      onTap: onTap,
30      onChanged: onChanged,
31      controller: controller,
32      autofocus: autofocus,
33      style: TextStyle(height: 0.55, fontSize: 13.0, color: NowUIColors.time),
34      textAlignVertical: TextAlignVertical(y: 0.6),
35      decoration: InputDecoration(
36        filled: true,
37        fillColor: NowUIColors.white,
38        hintStyle: TextStyle(
39          color: NowUIColors.time,
40        ),
41        suffixIcon: suffixIcon,
42        prefixIcon: prefixIcon,
43        enabledBorder: OutlineInputBorder(
44          borderRadius: BorderRadius.circular(32.0),
45          borderSide: BorderSide(
46            color: borderColor,
47            width: 1.0,
48            style: BorderStyle.solid,
49          ),
50        ),
51        focusedBorder: OutlineInputBorder(
52          borderRadius: BorderRadius.circular(32.0),
53          borderSide: BorderSide(
54            color: borderColor,
55            width: 1.0,
56            style: BorderStyle.solid,
57          ),
58        ),
59        hintText: placeholder,
60      ),
61    );
62  }
63 }
64
```

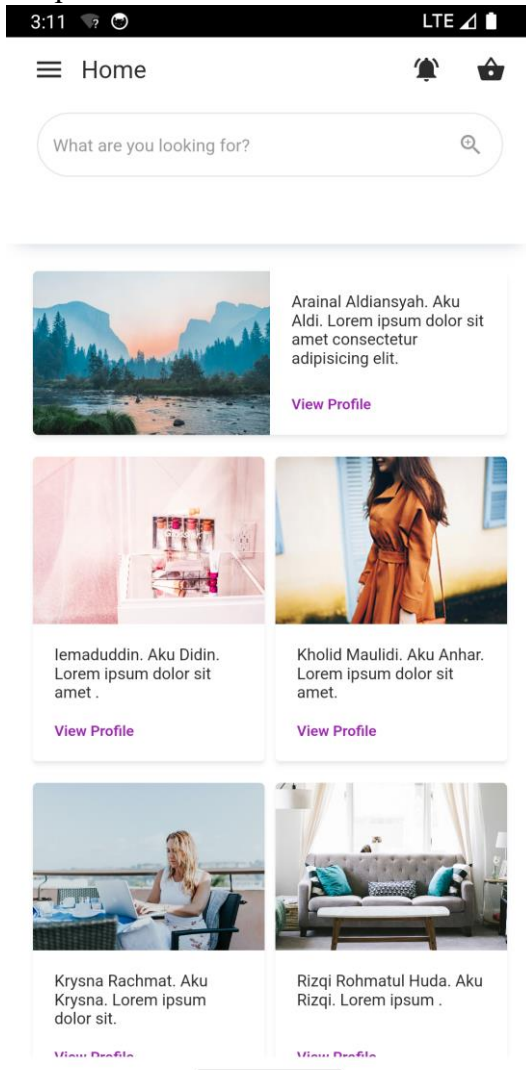
- card-horizontal.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:image_picker_flutter/constants/Theme.dart';
3
4 class CardHorizontal extends StatelessWidget {
5   CardHorizontal({
6     this.title = "Placeholder Title",
7     this.cta = "",
8     this.img = "https://via.placeholder.com/200",
9     VoidCallback? tap,
10  }) : tap = tap ?? defaultFunc;
11
12   final String cta;
13   final String img;
14   final VoidCallback tap;
15   final String title;
16
17   static void defaultFunc() {
18     print("the function works!");
19   }
20
21   @override
22   Widget build(BuildContext context) {
23     return Container(
24       height: 130,
25       child: GestureDetector(
26         onTap: tap,
27         child: Card(
28           elevation: 3,
29           shadowColor: NowUIColors.muted.withOpacity(0.22),
30           shape: RoundedRectangleBorder(
31             borderRadius: BorderRadius.all(Radius.circular(4.0)),
32           ),
33           child: Row(
34             children: [
35               Flexible(
36                 flex: 1,
37                 child: Container(
38                   decoration: BoxDecoration(
39                     borderRadius: BorderRadius.only(
40                       topLeft: Radius.circular(4.0),
41                       bottomLeft: Radius.circular(4.0),
42                     ),
43                     image: DecorationImage(
44                       image: NetworkImage(img),
45                       fit: BoxFit.cover,
46                     ),
47                   ),
48                 ),
49               ),
50               Flexible(
51                 flex: 1,
52                 child: Padding(
53                   padding: const EdgeInsets.all(16.0),
54                   child: Column(
55                     mainAxisAlignment: MainAxisAlignment.spaceBetween,
56                     crossAxisAlignment: CrossAxisAlignment.start,
57                     children: [
58                       Text(title,
59                         style:
60                           TextStyle(color: NowUIColors.text, fontSize: 12)),
61                       Text(
62                         cta,
63                         style: TextStyle(
64                           color: NowUIColors.primary,
65                           fontSize: 11,
66                           fontWeight: FontWeight.w600,
67                         ),
68                       ),
69                     ],
70                   ),
71                 ),
72               ),
73             ],
74           ),
75         ),
76       );
77   }
78 }
79
80
```

- card-small.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:image_picker_flutter/constants/Theme.dart';
3
4 class CardSmall extends StatelessWidget {
5   CardSmall({
6     this.title = "Placeholder Title",
7     this.cta = "",
8     this.img = "https://via.placeholder.com/200",
9     VoidCallback? tap,
10  }) : tap = tap ?? defaultFunc;
11
12   final String cta;
13   final String img;
14   final VoidCallback tap;
15   final String title;
16
17   static void defaultFunc() {
18     print("the function works!");
19   }
20
21   @override
22   Widget build(BuildContext context) {
23     return Flexible(
24       child: Container(
25         height: 235,
26         child: GestureDetector(
27           onTap: tap,
28           child: Card(
29             elevation: 3,
30             shadowColor: NowUIColors.muted.withOpacity(0.22),
31             shape: RoundedRectangleBorder(
32               borderRadius: BorderRadius.all(Radius.circular(4.0)),
33             ),
34             child: Column(
35               crossAxisAlignment: CrossAxisAlignment.start,
36               children: [
37                 Flexible(
38                   flex: 11,
39                   child: Container(
40                     decoration: BoxDecoration(
41                       borderRadius: BorderRadius.only(
42                         topLeft: Radius.circular(4.0),
43                         topRight: Radius.circular(4.0),
44                       ),
45                       image: DecorationImage(
46                         image: NetworkImage(img),
47                         fit: BoxFit.cover,
48                       ),
49                     ),
50                   ),
51                 ),
52                 Flexible(
53                   flex: 9,
54                   child: Padding(
55                     padding: const EdgeInsets.only(
56                       top: 16.0, bottom: 16.0, left: 16.0, right: 16.0),
57                     child: Column(
58                       mainAxisAlignment: MainAxisAlignment.spaceBetween,
59                       crossAxisAlignment: CrossAxisAlignment.start,
60                       children: [
61                         Text(title,
62                           style: TextStyle(
63                             color: NowUIColors.text, fontSize: 12)),
64                         Padding(
65                           padding: const EdgeInsets.only(top: 8.0),
66                           child: Text(
67                             cta,
68                             style: TextStyle(
69                               color: NowUIColors.primary,
70                               fontSize: 11,
71                               fontWeight: FontWeight.w600,
72                             ),
73                         ),
74                       ],
75                     ),
76                   ),
77                 ),
78               ],
79             ),
80           ),
81         ),
82       ),
83     );
84   }
85 }
86
87
```


- tampilan



7. Halaman Scan OCR

- ocr.dart

```
1 import 'dart:io';
2 import 'package:dotted_border/dotted_border.dart';
3 import 'package:flutter/material.dart';
4 import 'package:image_picker/image_picker.dart';
5 import 'package:http/http.dart' as http;
6 import 'package:gallery_saver/gallery_saver.dart';
7 import 'package:image_picker_flutter/constants/Theme.dart';
8 import 'package:image_picker_flutter/widgets/drawer.dart';
9
10 class MyPage extends StatefulWidget {
11   const MyPage({Key? key}) : super(key: key);
12
13   @override
14   _MyPageState createState() => _MyPageState();
15 }
16
17 class _MyPageState extends State<MyPage> {
18   File? imageFile;
19   final imagePicker = ImagePicker();
20   String resultText = '';
21
22   Future<void> sendImageToServer(File imageFile) async {
23     var uri =
24       Uri.parse('https://8b69-180-248-24-169.ngrok-free.app/process_image');
25
26     var request = http.MultipartRequest('POST', uri)
27       ..files.add(await http.MultipartFile.fromPath('image', imageFile.path));
28
29     try {
30       var response = await request.send();
31
32       if (response.statusCode == 200) {
33         var responseBody = await response.stream.bytesToString();
34         print("Response from server: $responseBody");
35
36         setState(() {
37           resultText = responseBody;
38         });
39       } else {
40         print("Failed to get OCR result from server");
41         setState(() {
42           resultText = "tidak bisa";
43         });
44       }
45     } catch (e) {
46       print("Error sending image to server: $e");
47     }
48   }
49
50   Future<void> showPictureDialog() async {
51     await showDialog<void>({
52       context: context,
53       builder: (BuildContext context) {
54         return SimpleDialog(
55           title: const Text('Select Action'),
56           children: [
57             SimpleDialogOption(
58               onPressed: () {
59                 getFromCamera();
60                 Navigator.of(context).pop();
61               },
62               child: const Text('Open Camera'),
63             ),
64             SimpleDialogOption(
65               onPressed: () {
66                 getFromGallery();
67                 Navigator.of(context).pop();
68               },
69               child: const Text('Open Gallery'),
70             ),
71           ],
72         );
73       },
74     ));
75   }
76
77   getFromGallery() async {
78     final pickedFile = await imagePicker.pickImage(
79       source: ImageSource.gallery,
80       maxWidth: 1800,
81       maxHeight: 1800,
82     );
83     if (pickedFile != null) {
84       setState(() {
85         imageFile = File(pickedFile.path);
86         sendImageToServer(imageFile!);
87       });
88     }
89   }
90
91   getFromCamera() async {
92     final pickedFile = await imagePicker.pickImage(
93       source: ImageSource.camera,
94       maxWidth: 1800,
95       maxHeight: 1800,
96     );
97     if (pickedFile != null) {
98       setState(() {
99         imageFile = File(pickedFile.path);
100         sendImageToServer(imageFile!);
101         // Simpan gambar ke galeri
102         GallerySaver.saveImage(imageFile!.path);
103       });
104     }
105   }
106
107   @override
108   Widget build(BuildContext context) {
109     Size size = MediaQuery.of(context).size;
110
111     return Scaffold(
112       appBar: AppBar(
113         title: const Text('OCR | Kelompok 5'),
114         backgroundColor: NowUIColors.primary,
115         centerTitle: true,
116       ),
117       drawer: NowDrawer(currentPage: 'ocr'), // Tambahkan drawer di sini
118       body: Column(
119         crossAxisAlignment: CrossAxisAlignment.center,
120         children: [
121           Container(
122             margin: const EdgeInsets.all(20),
123             width: size.width,
124             height: 250,
125             child: DottedBorder(
126               borderType: BorderType.RRect,
127               radius: const Radius.circular(12),
128               color: NowUIColors.primary,
129               strokeWidth: 1,
130               dashPattern: const [5, 5],
131               child: SizedBox.expand(
132                 child: FittedBox(
133                   child: imageFile != null
134                     ? Image.file(imageFile!.path), fit: BoxFit.cover)
135                     : const Icon(
136                         Icons.image_outlined,
137                         color: NowUIColors.primary,
138                       ),
139               ),
140             ),
141           ),
142           Padding(
143             padding: const EdgeInsets.fromLTRB(40, 40, 40, 20),
144             child: Material(
145               elevation: 3,
146               borderRadius: BorderRadius.circular(20),
147               child: Container(
148                 width: size.width,
149                 height: 50,
150                 decoration: BoxDecoration(
151                   borderRadius: BorderRadius.circular(20),
152                   color: NowUIColors.primary,
153                 ),
154               ),
155             ),
156             child: Material(
157               borderRadius: BorderRadius.circular(20),
158               color: Colors.transparent,
159               child: InkWell(
160                 splashColor: Colors.transparent,
161                 highlightColor: Colors.transparent,
162                 onTap: () {
163                   showPictureDialog();
164                 },
165               ),
166             ),
167             child: const Center(
168               child: Text(
169                 'Pick Image',
170                 style: TextStyle(
171                   color: Colors.white,
172                   fontWeight: FontWeight.bold,
173                 ),
174               ),
175             ),
176           ),
177           Padding(
178             padding: const EdgeInsets.symmetric(horizontal: 40),
179             child: Material(
180               elevation: 3,
181               borderRadius: BorderRadius.circular(20),
182               child: Container(
183                 width: size.width,
184                 height: 50,
185                 decoration: BoxDecoration(
186                   borderRadius: BorderRadius.circular(20),
187                   color: NowUIColors.primary,
188                 ),
189               ),
190             ),
191             child: Material(
192               borderRadius: BorderRadius.circular(20),
193               color: Colors.transparent,
194               child: InkWell(
195                 splashColor: Colors.transparent,
196                 highlightColor: Colors.transparent,
197                 onTap: () {
198                   setState(() {
199                     imageFile = null;
200                     resultText = '';
201                   });
202                 },
203               ),
204             ),
205             child: const Center(
206               child: Text(
207                 'Clear Image',
208                 style: TextStyle(
209                   color: Colors.white,
210                   fontWeight: FontWeight.bold,
211                 ),
212               ),
213             ),
214           ),
215           const Text(
216             "Hasil",
217             style: TextStyle(fontSize: 16.0),
218           ),
219           Text(
220             resultText,
221             style: const TextStyle(fontSize: 16.0),
222           ),
223         ],
224       ),
225     );
226   }
227 }
228 }
```

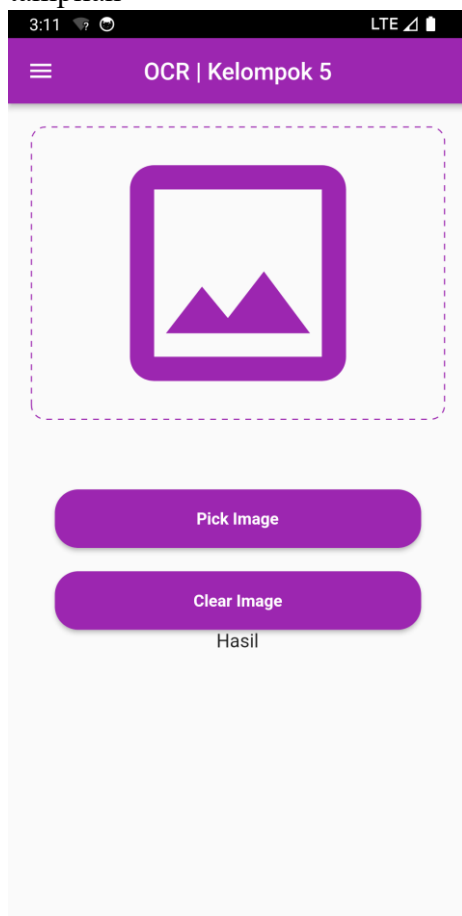
- app.py

```

1 from flask import Flask, request, jsonify
2 from PIL import Image
3 import cv2
4 import numpy as np
5 import pytesseract
6 from sklearn.cluster import KMeans
7
8 app = Flask(__name__)
9
10 @app.route('/process_image', methods=['POST'])
11 def process_image():
12     try:
13         # Terima gambar dari Flutter
14         image_data = request.files['image'].read()
15         print("Image received successfully.") # Pesan debug
16         image_np = np.frombuffer(image_data, np.uint8)
17         img = cv2.imdecode(image_np, cv2.IMREAD_COLOR)
18
19         # PREPROCESSING
20         h, w, ch = img.shape
21         data = img / 255.0
22         data = data.reshape(h * w, ch)
23
24         # Proses segmentasi dengan K-Means
25         kmeans = KMeans(n_clusters=2, n_init=10)
26         kmeans.fit(data)
27         predict = kmeans.predict(data)
28         cluster_centers = kmeans.cluster_centers_
29         new_colors = cluster_centers[predict]
30         img_recolored = new_colors.reshape(h, w, ch)
31         pytesseract.pytesseract.tesseract_cmd = r'C:/Program Files/Tesseract-OCR/tesseract.exe'
32
33         img_recolored_uint8 = (img_recolored * 255).astype(np.uint8)
34         # custom_config = r'--oem 3 --psm 6'
35         # Deteksi teks pada gambar
36         detected_text = pytesseract.image_to_string(img_recolored_uint8)
37
38         # Periksa apakah teks terdeteksi kosong
39         if not detected_text.strip():
40             return jsonify({"detected_text": "Tidak ada teks terbaca"})
41
42         return jsonify({"detected_text": detected_text})
43     except Exception as e:
44         print("Error processing image:", e) # Pesan debug
45         return jsonify({"error": "Kesalahan saat memproses gambar", "details": str(e)})
46
47 if __name__ == '__main__':
48     app.run(debug=True)
49

```

- tampilan



8. Halaman Profile

- photo-album.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:image_picker_flutter/constants/Theme.dart';
3
4 class PhotoAlbum extends StatelessWidget {
5   final List<String> imgArray;
6
7   PhotoAlbum({required this.imgArray});
8
9   @override
10  Widget build(BuildContext context) {
11    return Column(
12      children: [
13        Row(
14          mainAxisAlignment: MainAxisAlignment.spaceBetween,
15          children: [
16            Text(
17              "Album",
18              style: TextStyle(
19                fontWeight: FontWeight.w600,
20                fontSize: 14.0,
21              ),
22            ),
23            Text(
24              "View All",
25              style: TextStyle(color: NowUIColors.primary, fontSize: 12.0),
26            ),
27          ],
28        ),
29        SizedBox(
30          height: 250,
31          child: GridView.count(
32            primary: false,
33            padding: EdgeInsets.symmetric(vertical: 15.0),
34            crossAxisSpacing: 10,
35            mainAxisSpacing: 10,
36            crossAxisCount: 3,
37            children: imgArray
38              .map((item) => Container(
39                height: 100,
40                decoration: BoxDecoration(
41                  borderRadius: BorderRadius.all(Radius.circular(4.0)),
42                  image: DecorationImage(
43                    image: AssetImage(item), fit: BoxFit.cover)))
44              .toList()),
45          ),
46        ],
47      );
48    }
49  }
50
```

- profile_didin.dart

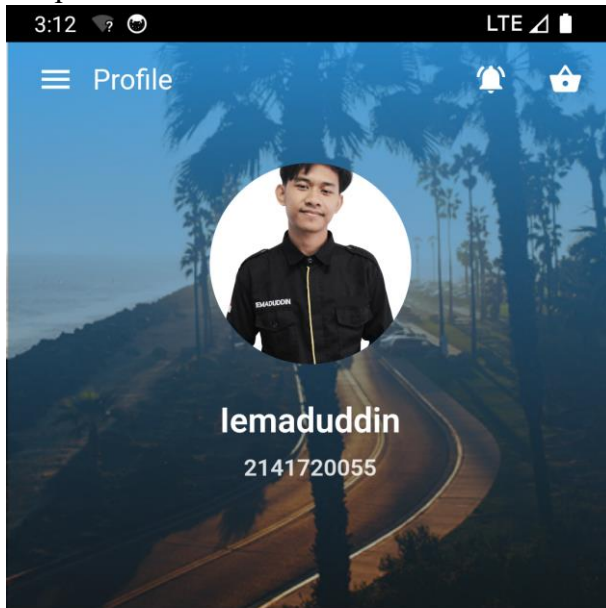
```
1 import 'dart:ui';
2 import 'package:flutter/material.dart';
3 import 'package:image_picker_flutter/constants/Theme.dart';
4 import 'package:font_awesome_flutter/font_awesome_flutter.dart';
5 //widgets
6 import 'package:image_picker_flutter/widgets/navbar.dart';
7 import 'package:image_picker_flutter/widgets/drawer.dart';
8 import 'package:image_picker_flutter/widgets/photo-album.dart';
9
10 List<String> imgArray = [
11   "assets/imgs/album-1.jpg",
12   "assets/imgs/album-2.jpg",
13   "assets/imgs/album-3.jpg",
14   "assets/imgs/album-4.jpg",
15   "assets/imgs/album-5.jpg",
16   "assets/imgs/album-6.jpg"
17 ];
18
19 class ProfileDidin extends StatelessWidget {
20   @override
21   Widget build(BuildContext context) {
22     return Scaffold(
23       extendBodyBehindAppBar: true,
24       appBar: NavBar(
25         title: "Profile",
26         transparent: true,
27         getCurrentPage: () {},
28         searchController: TextEditingController(),
29         searchOnChanged: (String value) {},
30         tags: [],
31       ),
32       backgroundColor: NowUIColors.bgColorScreen,
33       drawer: NowDrawer(currentPage: "Profile Didin"),
34       body: Stack(
35         children: <Widget>[
36           Column(
37             children: [
38               Flexible(
39                 flex: 1,
40                 child: Container(
41                   decoration: BoxDecoration(
42                     image: DecorationImage(
43                       image: AssetImage("assets/imgs/bg-profile.png"),
44                       fit: BoxFit.cover),
45                   child: Stack(
46                     children: <Widget>[
47                       SafeArea(
48                         bottom: false,
49                         right: false,
50                         left: false,
51                         child: Padding(
52                           padding: const EdgeInsets.only(left: 0, right: 0),
53                           child: Column(
54                             children: [
55                               CircleAvatar(
56                                 backgroundImage:
57                                   AssetImage("assets/imgs/didin.jpg"),
58                                 radius: 65.0),
59                               Padding(
60                                 padding: const EdgeInsets.only(top: 24.0),
61                                 child: Text("Iemaduddin",
62                                   style: TextStyle(
63                                     color: NowUIColors.white,
64                                     fontWeight: FontWeight.w600,
65                                     fontSize: 22)),
66                               ),
67
```

```

67         Padding(
68             padding: const EdgeInsets.only(top: 8.0),
69             child: Text("2141720055",
70                 style: TextStyle(
71                     color: NowUIColors.white
72                     .withOpacity(0.85),
73                     fontSize: 15,
74                     fontWeight: FontWeight.w600)),
75         ),
76         Padding(
77             padding: const EdgeInsets.only(
78                 top: 24.0, left: 42, right: 32),
79             child: Row(
80                 mainAxisAlignment:
81                     MainAxisAlignment.spaceAround,
82                 crossAxisAlignment:
83                     CrossAxisAlignment.end,
84                 mainAxisAlignment: MainAxisAlignment.max,
85             ),
86         ),
87     ],
88 ),
89 ),
90 ),
91 ],
92 )),
93 ),
94 Flexible(
95     flex: 1,
96     child: Container(
97         child: SingleChildScrollView(
98             child: Padding(
99                 padding: const EdgeInsets.only(
100                     left: 32.0, right: 32.0, top: 42.0),
101             child: Column(children: [
102                 Text("About me",
103                     style: TextStyle(
104                         color: NowUIColors.text,
105                         fontWeight: FontWeight.w600,
106                         fontSize: 17.0)),
107                 Padding(
108                     padding: const EdgeInsets.only(
109                         left: 24.0, right: 24, top: 30, bottom: 24),
110                     child: Text(
111                         "Aku Didin. Lorem ipsum dolor sit amet consectetur adipisicing
112                         textAlign: TextAlign.center,
113                         style: TextStyle(color: NowUIColors.time)),
114                     ),
115                 PhotoAlbum(imgArray: imgArray)
116             ]),
117         )),
118     ),
119 ],
120 ),
121 Align(
122     alignment: Alignment.center,
123     child: Padding(
124         padding: const EdgeInsets.only(left: 0.0),
125         child: Row(
126             mainAxisAlignment: MainAxisAlignment.center,
127             crossAxisAlignment: CrossAxisAlignment.center,
128             mainAxisAlignment: MainAxisAlignment.max,
129         ),
130     ),
131 ),
132 ],
133 ));
134 }
135 }
136

```


- tampilan



About me

Aku Didin. Lorem ipsum dolor sit amet
consectetur adipisicing elit. Soluta mollitia
error ratione minus nulla inventore atque odit
ad iste deleniti saepe commodi eius sequi
laborum eum explicabo sunt nisi
necessitatibus perferendis enim fugiat, quis
iusto possimus accusamus? Atque ullam
reiciendis ea labore, quisquam magnam
dolor dolores aliquam facilis eveniet! Animi.

Album

[View All](#)

