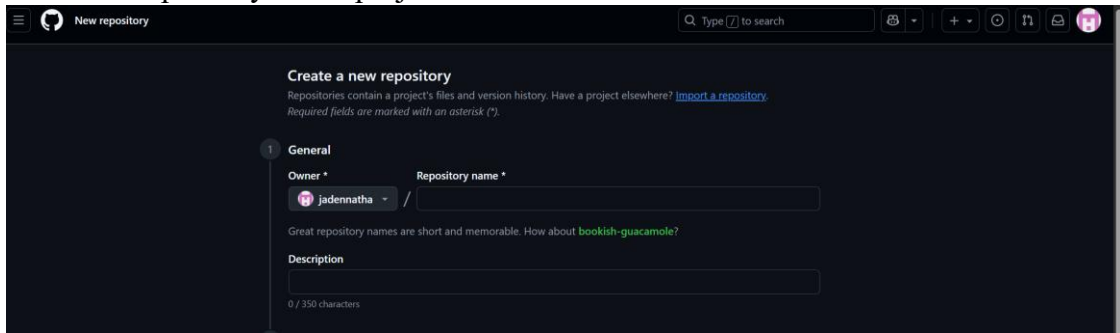


JOB SHEET 4 FLUTTER
PEMROGRAMAN MOBILE

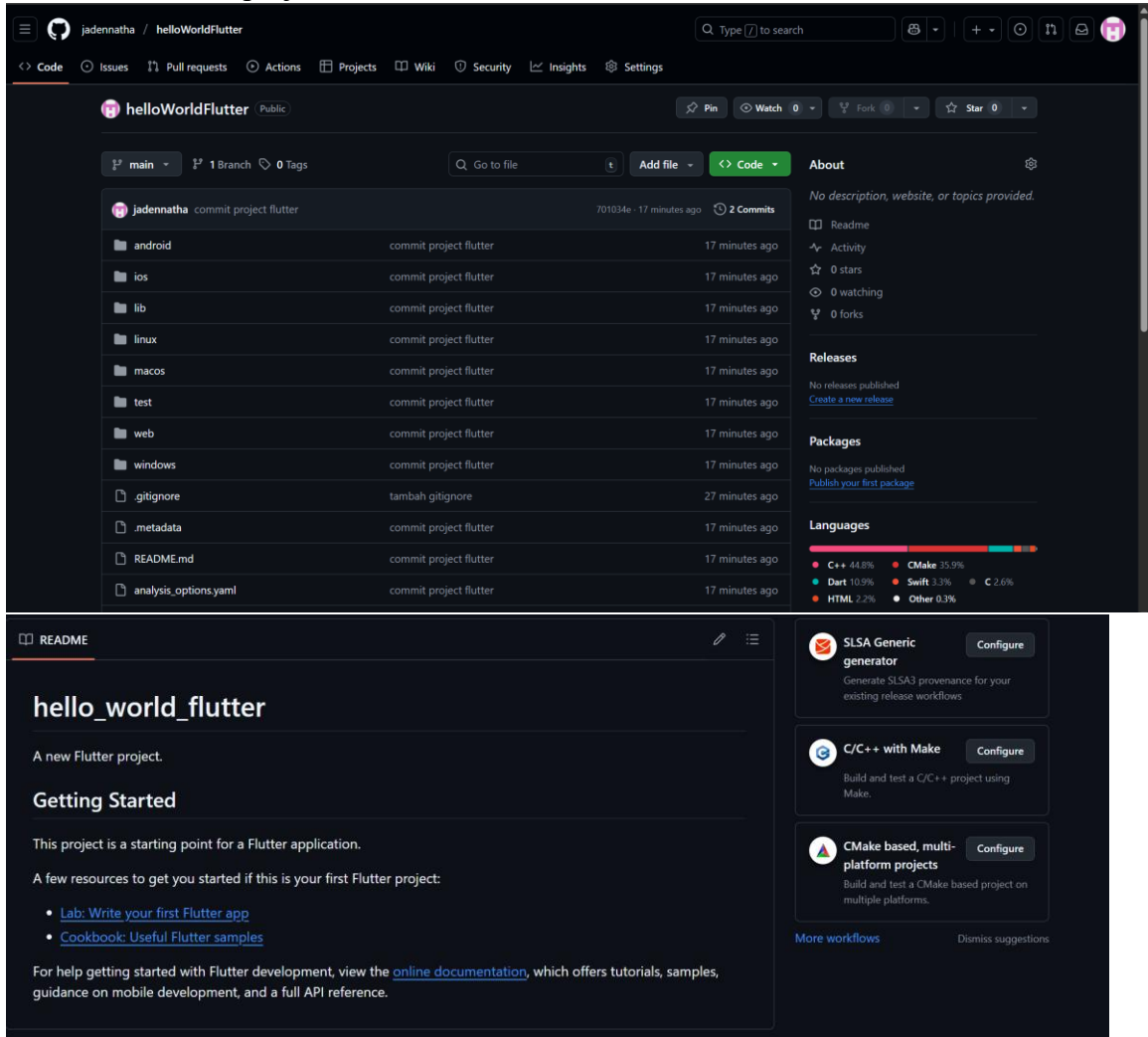


JADEN NATHA KAUTSAR
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SISTEM INFORMASI BISNIS

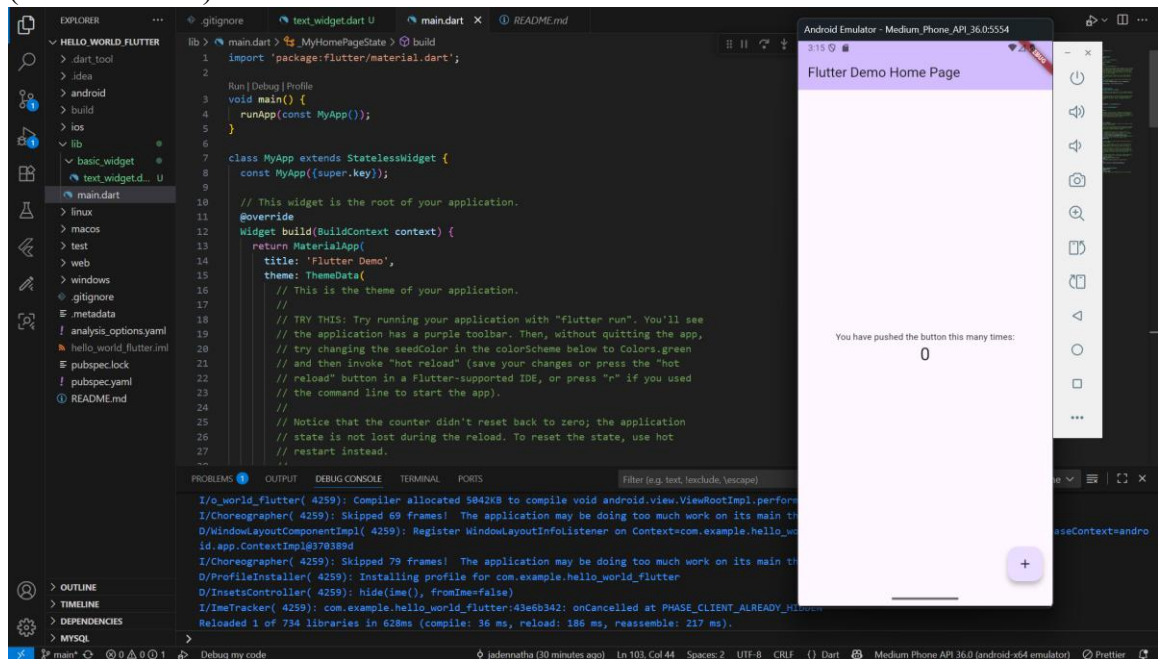
1. Membuat repository untuk project baru



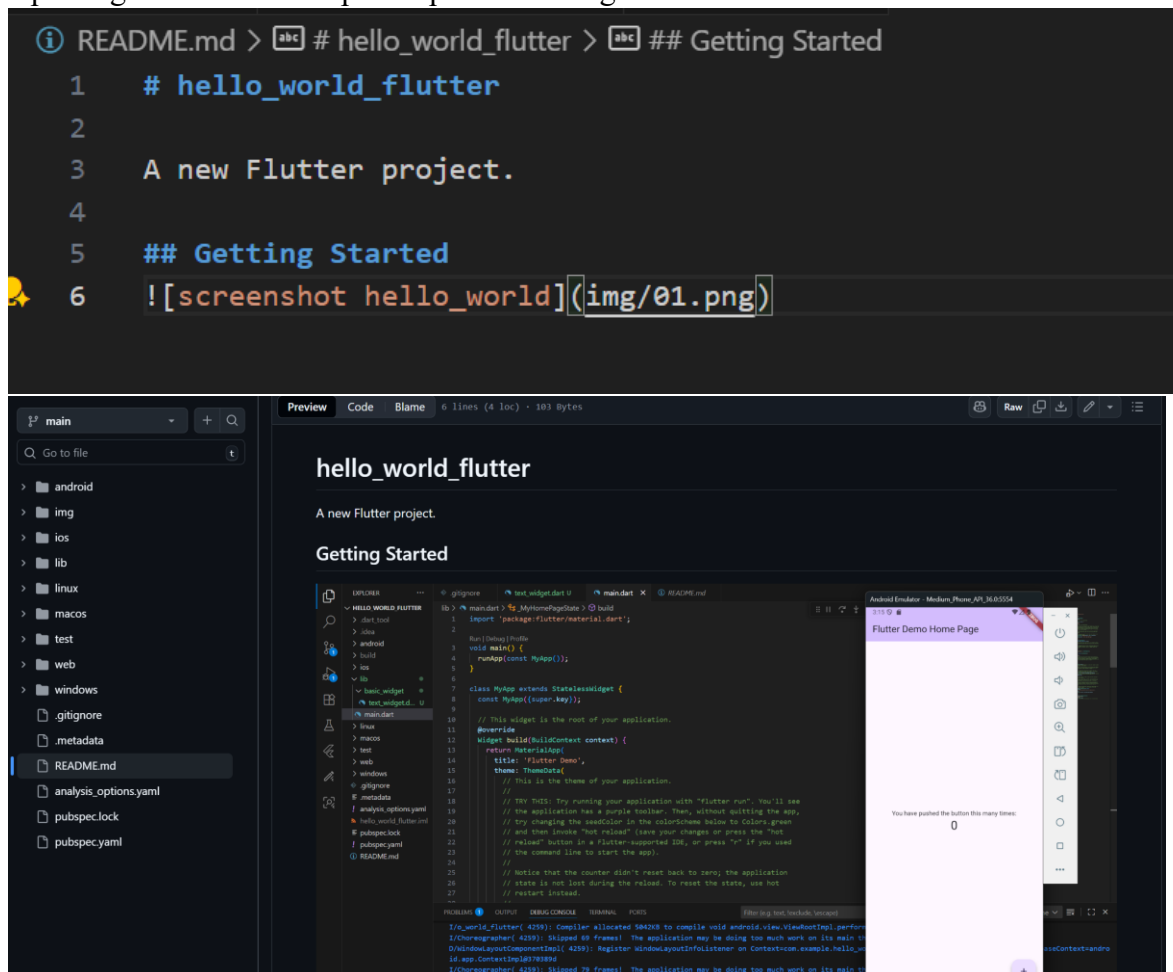
2. Hasil dari commit project flutter



3. Menjalankan project flutter untuk pertama kali dengan menggunakan emulator (android studio)



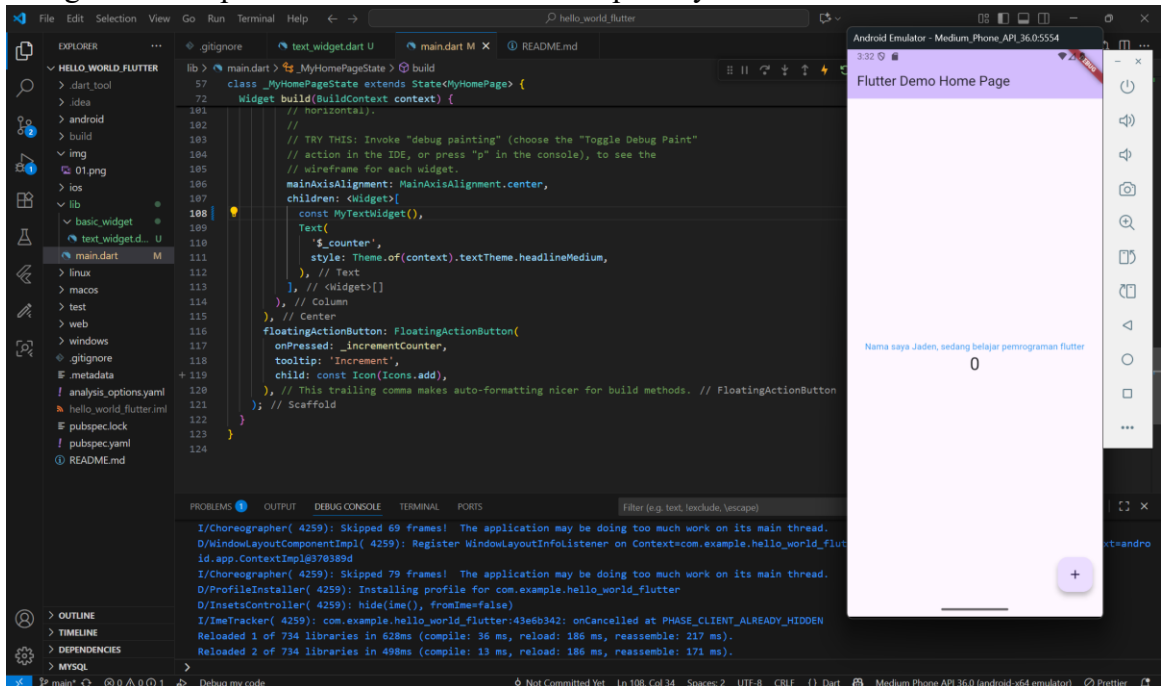
4. Upload gambar dan ditampilkan pada readme github



5. Membuat text widget dengan membuat folder baru dengan nama basic_widget dan membuat file dart baru dengan nama text_widget.dart

```
lib > basic_widget > text_widget.dart > MyTextWidget > MyTextWidget
1  import 'package:flutter/material.dart';
2
3  class MyTextWidget extends StatelessWidget {
4      const MyTextWidget({Key? key}) : super(key: key);
5
6      @override
7      Widget build(BuildContext context) {
8          return const Text (
9              "Nama saya Jaden, sedang belajar pemrograman flutter",
10             style: TextStyle(color: Colors.blue, fontSize: 14),
11             textAlign: TextAlign.center); // Text
12     }
13 }
```

6. Mengubah kode pada file main dan berikut tampilannya



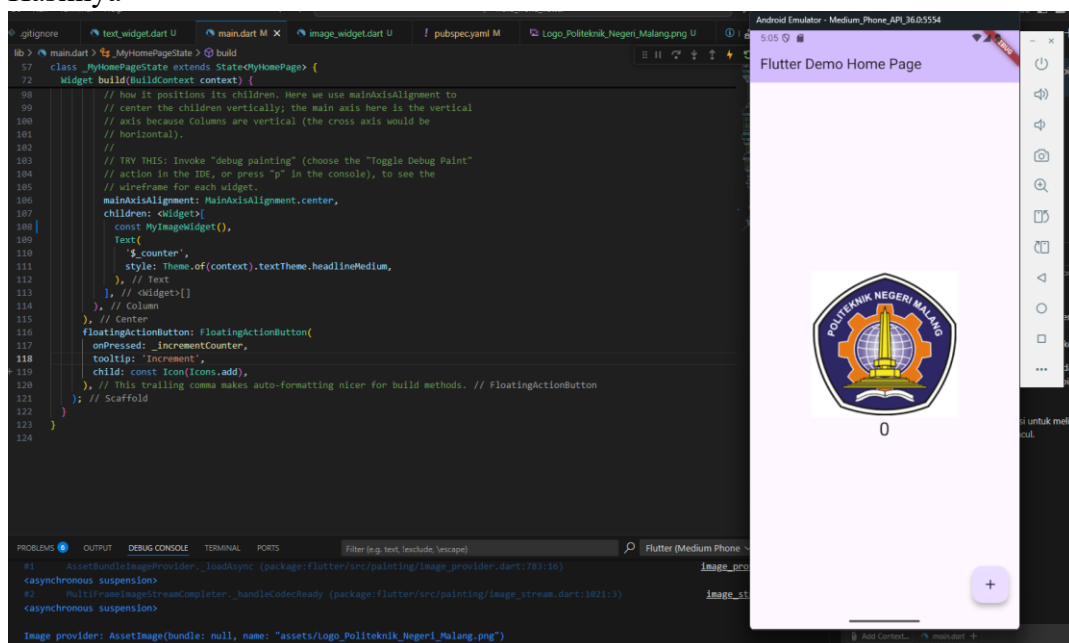
7. Membuat widget image dengan membuat file baru dengan nama image_widget.dart

```
lib > basic_widget > image_widget.dart > MyImageWidget
1  import 'package:flutter/material.dart';
2
3  class MyImageWidget extends StatelessWidget {
4    const MyImageWidget({Key? key}) : super(key: key);
5
6    @override
7    Widget build(BuildContext context) {
8      return const Image(
9        image: AssetImage("logo_polinema.jpg")
10     ); // Image
11   }
12 }
```

penyesuaian asset pada file pubspec.yaml dan tambahkan file logo Anda di folder assets project hello_world.

```
99 # see https://flutter.dev/to/font-from-package
100 assets:
101   - assets/Logo_Politeknik_Negeri_Malang.png
```

Hasilnya



8. Membuat widget Cupertino Button dan Loading Bar

```
lib > basic_widget > loading_cupertino.dart > MyLoadingCupertino > build
1  import 'package:flutter/material.dart';
2  import 'package:flutter/cupertino.dart';
3
4  class MyLoadingCupertino extends StatelessWidget {
5    const MyLoadingCupertino({Key? key}) : super(key: key);
6
7    @override
8    Widget build(BuildContext context) {
9      return MaterialApp(
10        home: Container(
11          margin: const EdgeInsets.only(top: 30),
12          color: Colors.white,
13          child: Column(
14            children: <Widget>[
15              CupertinoButton(
16                child: const Text("Contoh button"),
17                onPressed: () {},
18              ), // CupertinoButton
19              const CupertinoActivityIndicator(),
20            ], // <Widget>[]
21          ), // Column
22        ), // Container
23      ); // MaterialApp
24    }
25  }
```

9. Membuat Floating Action Button (FAB)

```
lib > basic_widget > fab_widget.dart > MyFabWidget > build
1  import 'package:flutter/material.dart';
2
3  class MyFabWidget extends StatelessWidget {
4    const MyFabWidget({Key? key}) : super(key: key);
5
6    @override
7    Widget build(BuildContext context) {
8      return MaterialApp(
9        home: Scaffold(
10          floatingActionButton: FloatingActionButton(
11            onPressed: () {
12              // Add your onPressed code here!
13            },
14            child: const Icon(Icons.thumb_up),
15            backgroundColor: Colors.pink,
16          ), // FloatingActionButton
17        ), // Scaffold
18      ); // MaterialApp
19    }
20  }
```

10. Mengatur Scaffold widget digunakan untuk mengatur tata letak sesuai dengan material design.

```
Run | Debug | Profile
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({super.key});
10
11   // This widget is the root of your application.
12   @override
13   Widget build(BuildContext context) {
14     return MaterialApp(
15       title: 'Flutter Demo',
16       theme: ThemeData(
17         primarySwatch: Colors.red,
18       ), // ThemeData
19       home: const MyHomePage(title: 'My Increment App'),
20     ); // MaterialApp
21   }
22 }
23
24 class MyHomePage extends StatefulWidget {
25   const MyHomePage({super.key, required this.title});
26
27   final String title;
28
29   @override
30   State<MyHomePage> createState() => _MyHomePageState();
31 }
32
33 class _MyHomePageState extends State<MyHomePage> {
34   int _counter = 0;
35
36   void _incrementCounter() {
37     setState(() {
38       // This call to setState tells the Flutter framework that something has
39       // changed in this State, which causes it to rerun the build method below
40       // so that the display can reflect the updated values. If we changed
41       // _counter without calling setState(), then the build method would not be
42       // called again, and so nothing would appear to happen.
43       _counter++;
44     });
45   }
46
47   @override
48   Widget build(BuildContext context) {
49     return Scaffold(
50       appBar: AppBar(
51         backgroundColor: Theme.of(context).colorScheme.inversePrimary,
52         title: Text(widget.title),
53       ), // AppBar
54       body: Center(
55         child: Column(
56           mainAxisAlignment: MainAxisAlignment.center,
57           children: <Widget>[
58             const Text('You have pushed the button this many times:'),
59             Text(
60               '$_counter',
61               style: Theme.of(context).textTheme.headlineMedium,
62             ), // Text
63           ], // <Widget>[]
64         ), // Column
65       ), // Center
66       bottomNavigationBar: BottomAppBar(
67         child: Container(
68           height: 50.0,
69         ), // Container
70       ), // BottomAppBar
71       floatingActionButton: FloatingActionButton(
72         onPressed: _incrementCounter,
73         tooltip: 'Increment',
74         child: const Icon(Icons.add),
75       ), // FloatingActionButton
76       floatingActionButtonLocation: FloatingActionButtonLocation.centerDocked,
77     ); // Scaffold
78   }
79 }
80
```


11. Mengubah main untuk Dialog widget pada flutter yang memiliki dua jenis dialog yaitu AlertDialog dan SimpleDialog.

```
8 class MyApp extends StatelessWidget {
9   const MyApp({Key? key}) : super(key: key);
10
11   // This widget is the root of your application.
12   @override
13   Widget build(BuildContext context) {
14     return const MaterialApp(
15       home: Scaffold(
16         body: MyLayout(),
17       ), // Scaffold
18     ); // MaterialApp
19   }
20 }
21
22 class MyLayout extends StatelessWidget {
23   const MyLayout({Key? key}) : super(key: key);
24
25   @override
26   Widget build(BuildContext context) {
27     return Padding(
28       padding: const EdgeInsets.all(8.0),
29       child: ElevatedButton(
30         child: const Text('Show alert'),
31         onPressed: () {
32           showAlertDialog(context);
33         },
34       ), // ElevatedButton
35     ); // Padding
36   }
37 }
38
```

```
39 showAlertDialog(BuildContext context) {
40   // set up the button
41   Widget okButton = TextButton(
42     child: const Text("OK"),
43     onPressed: () {
44       Navigator.pop(context);
45     },
46   ); // TextButton
47
48   // set up the AlertDialog
49   AlertDialog alert = AlertDialog(
50     title: const Text("My title"),
51     content: const Text("This is my message."),
52     actions: [
53       okButton,
54     ],
55   ); // AlertDialog
56
57   // show the dialog
58   showDialog(
59     context: context,
60     builder: (BuildContext context) {
61       return alert;
62     },
63   );
64 }
```


12. Membuat input dan Selection Widget

```
class MyApp extends StatelessWidget {  
  const MyApp({Key? key}) : super(key: key);  
  
  // This widget is the root of your application.  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      home: Scaffold(  
        appBar: AppBar(title: const Text("Contoh TextField")),  
        body: const TextField(  
          obscureText: false,  
          decoration: InputDecoration(  
            border: OutlineInputBorder(),  
            labelText: 'Nama',  
          ), // InputDecoration  
        ), // TextField  
      ), // Scaffold  
    ); // MaterialApp  
  }  
}
```

Android Emulator - Medium_Phone_API_36.0:5554

5:38



Contoh TextField

Nama

13. Membuat date and time pickers

```
Run | Debug | Profile
4 void main() {
5   runApp(const MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   const MyApp({Key? key}) : super(key: key);
10
11   // This widget is the root of your application.
12   @override
13   Widget build(BuildContext context) {
14     return MaterialApp(
15       title: 'Contoh Date Picker',
16       home: MyHomePage(title: 'Contoh Date Picker')
17     ); // MaterialApp
18   }
19 }
20
21 class MyHomePage extends StatefulWidget {
22   const MyHomePage({Key? key, required this.title}) : super(key: key);
23
24   final String title;
25
26   @override
27   MyHomePageState createState() => _MyHomePageState();
28 }
29
30 class _MyHomePageState extends State<MyHomePage> {
31   // Variable/State untuk mengambil tanggal
32   DateTime selectedDate = DateTime.now();
33
34   // Initial SelectDate Flutter
35   Future<void> _selectDate(BuildContext context) async {
36     // Initial DateTime Final Picked
37     final DateTime? picked = await showDatePicker(
38       context: context,
39       initialDate: selectedDate,
40       firstDate: DateTime(2015, 8),
41       lastDate: DateTime(2101));
42     if (picked != null && picked != selectedDate) {
43       setState(() {
44         selectedDate = picked;
45       });
46     }
47   }
48
49   @override
50   Widget build(BuildContext context) {
51     return Scaffold(
52
```

```

96 appBar: AppBar(
97   title: Text(widget.title),
98 ), // AppBar
99 body: Center(
100   child: Column(
101     mainAxisAlignment: MainAxisAlignment.min,
102     children: <Widget>[
103       Text("${selectedDate.toLocal()}.split(' ')[0]]),
104       const SizedBox(
105         height: 20.0,
106       ), // SizedBox
107       ElevatedButton(
108         onPressed: () => {
109           _selectDate(context),
110           // ignore: avoid_print
111           print(selectedDate.day + selectedDate.month + selectedDate.year)
112         },
113       child: const Text('Pilih Tanggal'),
114     ), // ElevatedButton
115   ], // <Widget>[]
116 ), // Column
117 ), // Center
118 ); // Scaffold
119 }
120 }

```

