

TUGAS 03
PRAK04 WIDGET2



Praktikum Pemrograman Berbasis Web - A

Nama :

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PROGRAM STUDI S1 TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS PANCASILA

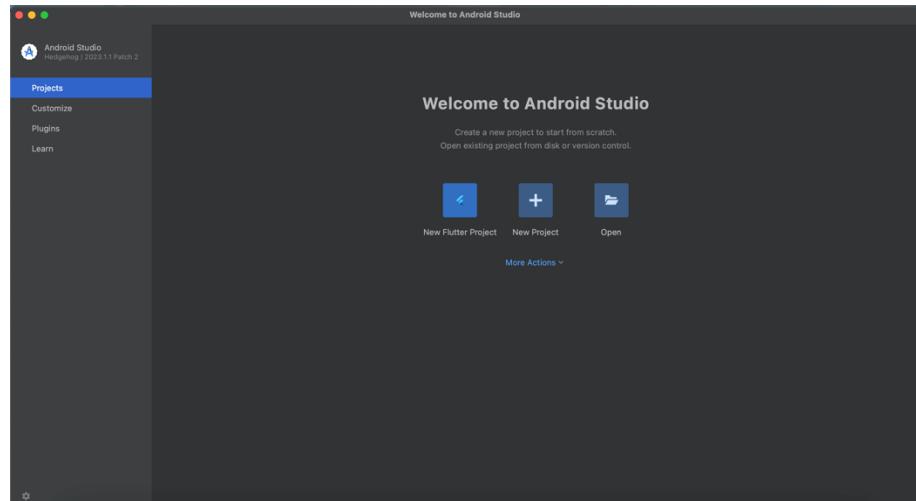
JAKARTA

2024

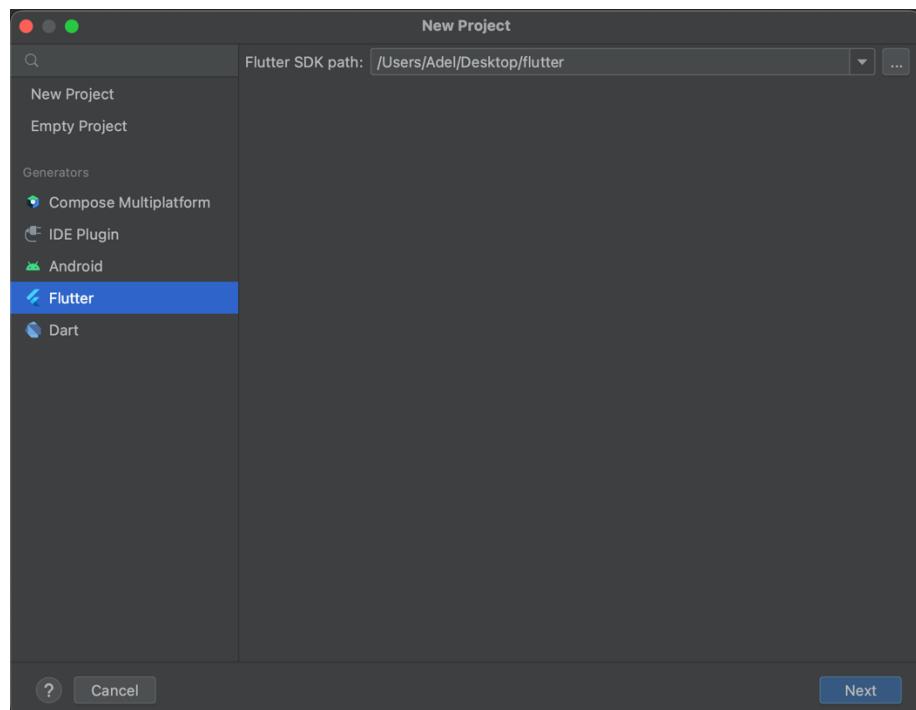
A. Project i_am_poor

a. First Initialization

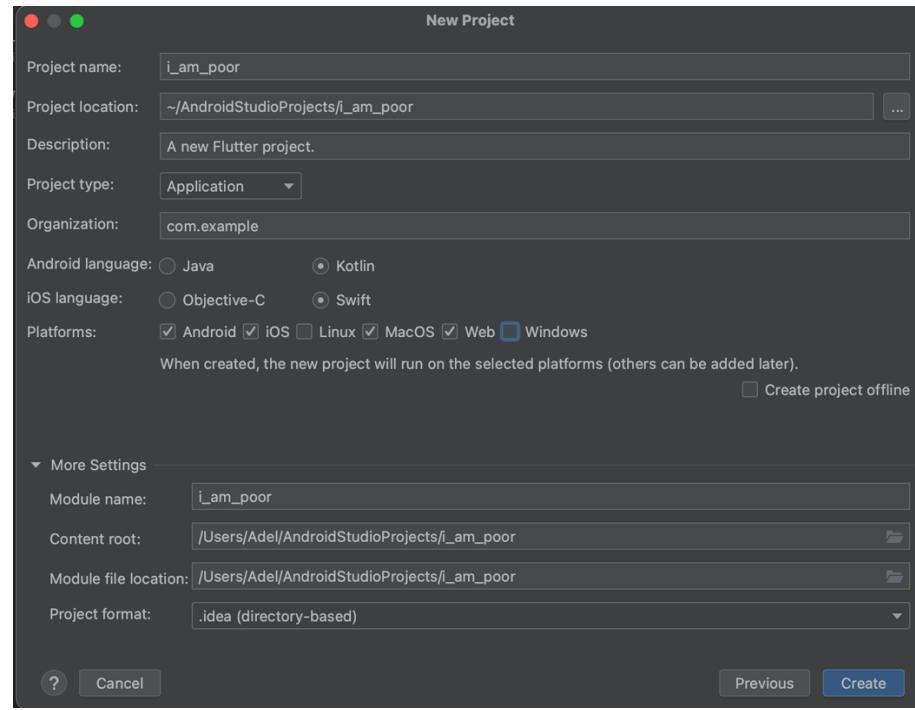
1. Akses web <https://docs.flutter.dev/ui/layout/tutorial>
2. Buka Android Studio



3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create



5. File main.dart

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

void main() {
  runApp(
    MaterialApp(
      home: Scaffold(
        appBar: AppBar(
          title: const Text('I am poor'),
          style: TextStyle(color: Colors.white),
        ),
        centerTitle: true,
        backgroundColor: Colors.blueGrey[900],
      ),
      backgroundColor: Colors.blueGrey,
      body: const Center(
        child: Image(
          image: AssetImage('images/sadcat.png'),
        ),
      ),
    ),
  );
}
```

6. File pubspec.yaml

```

name: i_am_poor
description: "A new Flutter project."
publish_to: 'none' # Remove this line if you wish to
publish to pub.dev

version: 1.0.0+1

environment:
  sdk: '>=3.3.0 <4.0.0'

dependencies:
  flutter:
    sdk: flutter
  cupertino_icons: ^1.0.6

dev_dependencies:
  flutter_test:
    sdk: flutter
  flutter_lints: ^3.0.0

flutter:
  uses-material-design: true
  assets:
    - images/sadcat.png
  
```

7. Update pub flutter

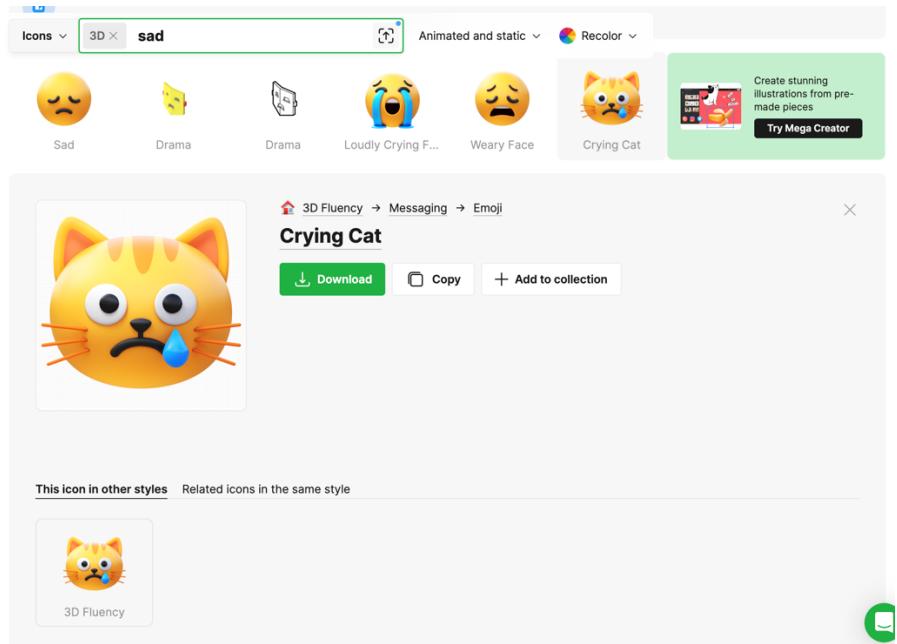
```
$ flutter pub get
```

```

anps:i_am_poor Adel$ flutter pub get
Resolving dependencies...
  leak_tracker 10.0.0 (10.0.5 available)
  leak_tracker_flutter_testing 2.0.1 (3.0.5 available)
  leak_tracker_testing 2.0.1 (3.0.1 available)
  material_color_utilities 0.8.0 (0.11.1 available)
  meta 1.11.0 (1.12.0 available)
  test_api 0.6.1 (0.7.0 available)
  vm_service 13.0.0 (14.2.0 available)
Got dependencies!
7 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
anps:i_am_poor Adel$ pwd
/Users/Adel/AndroidStudioProjects/i_am_poor
anps:i_am_poor Adel$ 
  
```

b. Download Icon

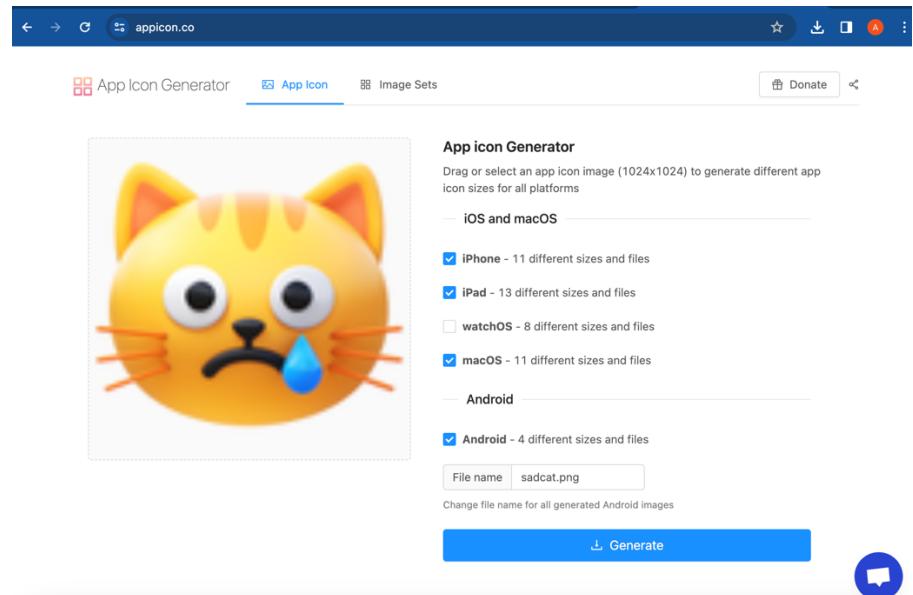
1. Go to <https://icons8.com/icons> -> Cari Icon -> Download



Download crying cat icon

Formats	PNG sizes	Preview
<input checked="" type="checkbox"/> PNG Free <input type="checkbox"/> Favicon Free <input type="checkbox"/> Link (CDN) ⓘ Free	<input checked="" type="checkbox"/> 94x94 Free Pixel perfect <input type="checkbox"/> 188x188 <input type="checkbox"/> 375x375 <input type="checkbox"/> 750x750 <input type="checkbox"/> 1500x1500 <input type="checkbox"/> iOS ⓘ <input type="checkbox"/> Android ⓘ <input type="checkbox"/> Custom size 100 × 100	Light Dark  94x94
<small> ⓘ Note that 3D icons are distributed only as rasters</small>		
Download		Free for a link
		Edit in Lunacy
		Edit in Mega Creator

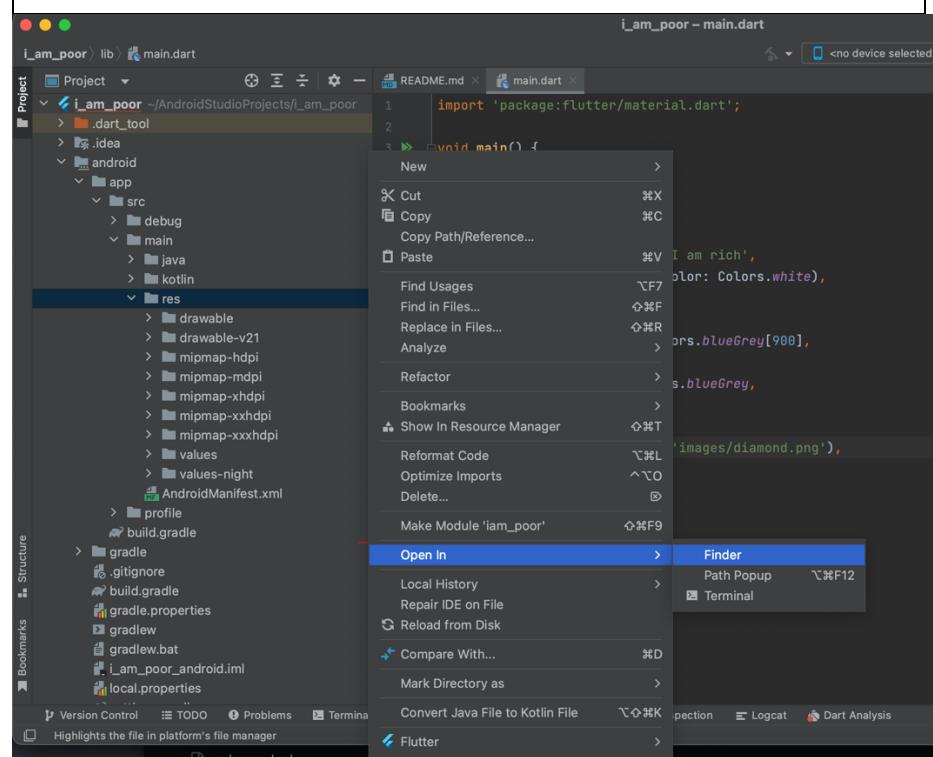
2. Generate icon pada <https://www.appicon.co/>



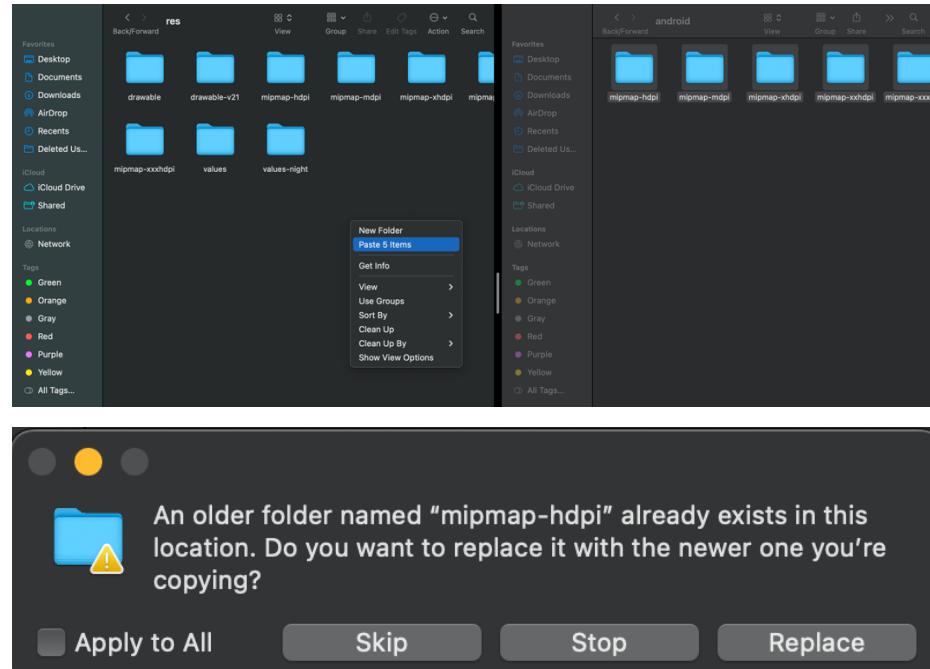
c. Replace Icon App

1. Go to folder

Android -> app -> src -> main -> res -> klik kanan -> Open in -> Finder

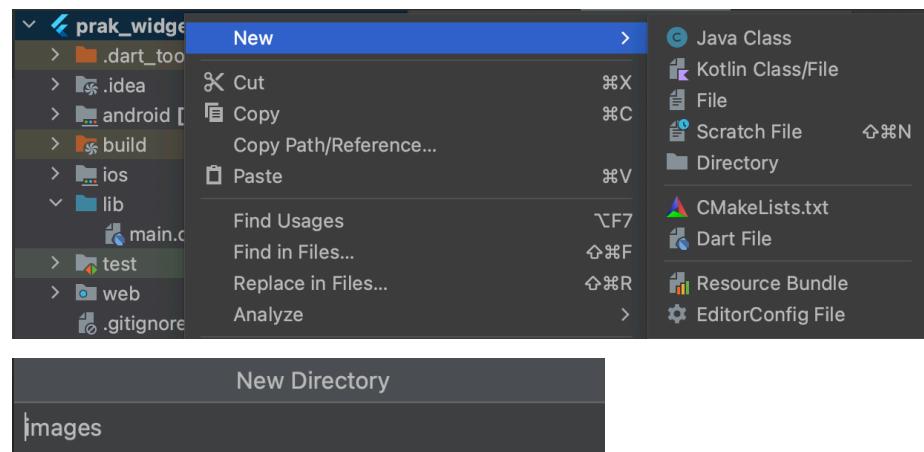


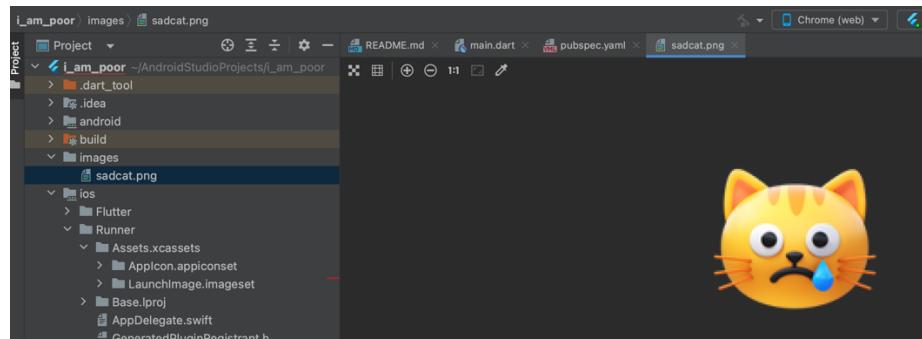
2. Copy folder hasil download Appicon zip ke res directory ->
Replace



d. Create images directory

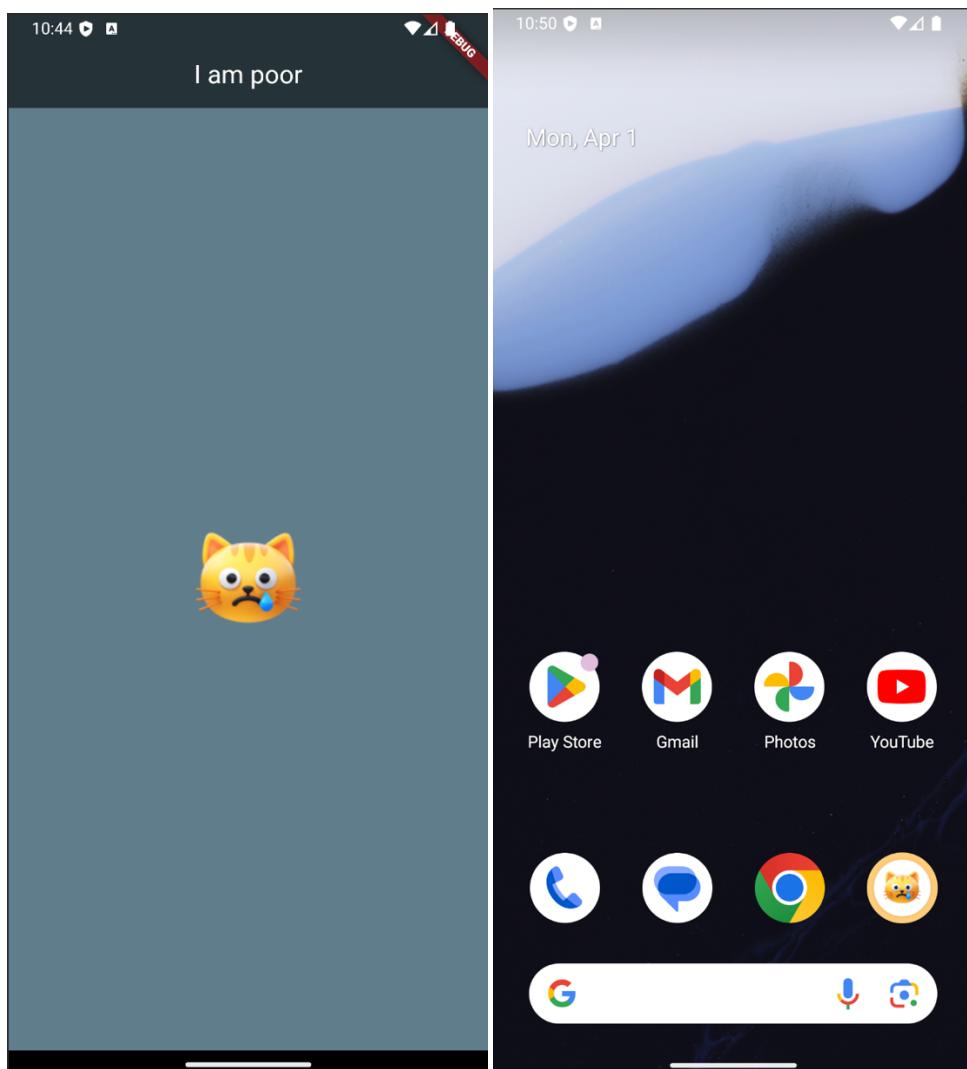
Klik kanan project -> New -> Directory





e. Run App

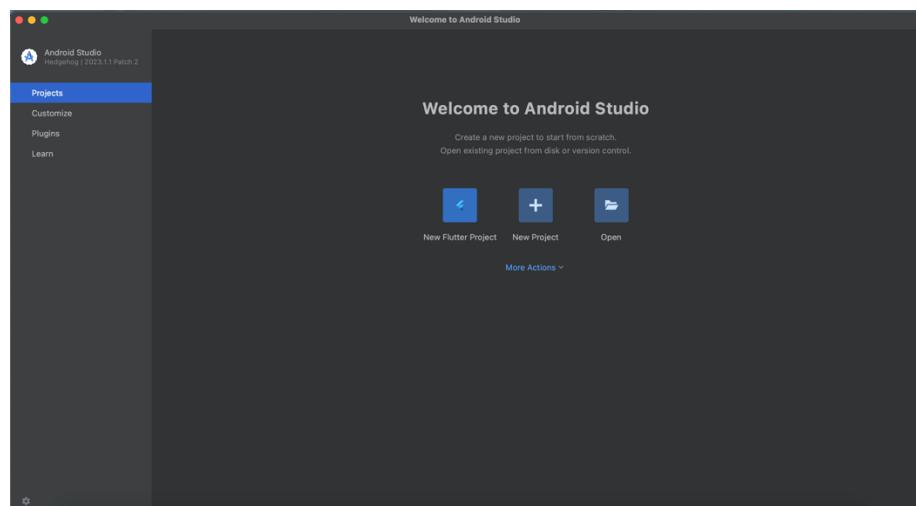
Pilih simulator -> Klik Icon Run



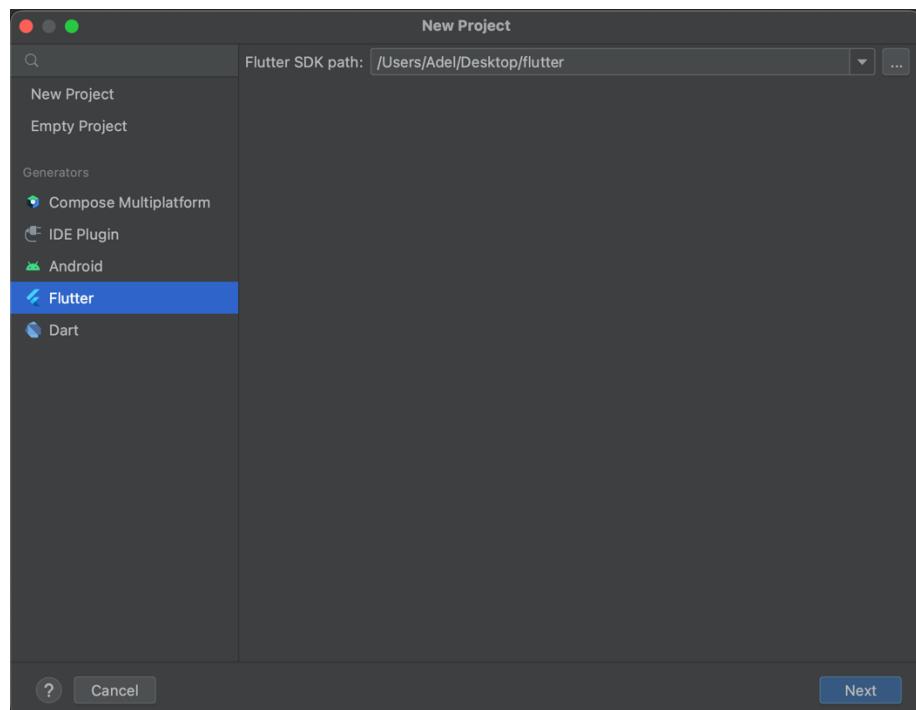
B. Project kartuku

a. First Initialization

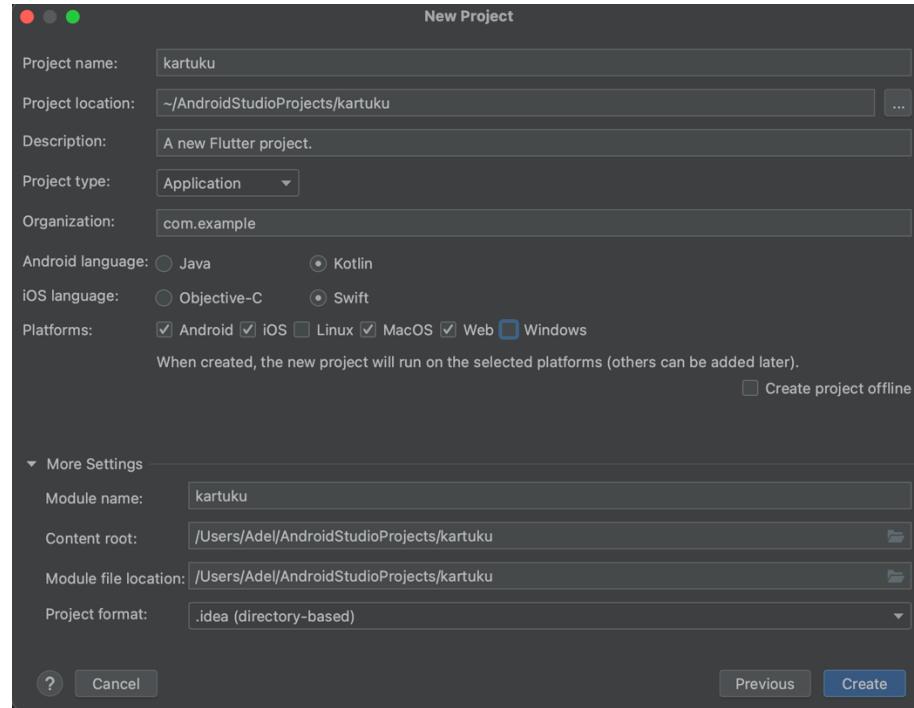
1. Akses web <https://docs.flutter.dev/ui/layout/tutorial>
2. Buka Android Studio



3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create



5. File main.dart

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

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.pink,
        body: SafeArea(
          child: Column(
            mainAxisAlignment:
MainAxisAlignment.center,
            children: <Widget>[
              CircleAvatar(
                radius: 50.0,
                backgroundImage:
AssetImage('images/girl.png'),
),

```

```
        Text(
          'Anak IT UP',
          style: TextStyle(
            fontFamily: 'Pacifico',
            fontSize: 30.0,
            color: Colors.white,
            // fontWeight: FontWeight.bold,
          ),
        ),
      Text(
        'FLUTTER DEVELOPER',
        style: TextStyle(
          fontFamily: 'SourceSans3',
          fontSize: 20.0,
          color: Colors.white,
          fontWeight: FontWeight.bold,
          letterSpacing: 2.5,
        ),
      ),
    ),
    SizedBox(
      height: 20.0,
      width: 150.0,
      child: Divider(
        color: Colors.teal.shade100,
      ),
    ),
  ),
  Card(
    margin:
    EdgeInsets.symmetric(vertical: 10.0, horizontal: 25.0),
    child: ListTile(
      leading: Icon(
        Icons.phone,
        color: Colors.teal,
      ),
      title: Text(
        '+62 8953 399 4678',
        style: TextStyle(
          color: Colors.teal.shade900,
          fontFamily: 'SourceSans3',
          fontSize: 20.0,
          fontWeight: FontWeight.bold,
        ),
      ),
    )),
  Card(
    margin:
    EdgeInsets.symmetric(vertical: 10.0, horizontal: 25.0),
    child: ListTile(
      leading: Icon(
        Icons.email,
        color: Colors.teal,
      ),
      title: Text(
        '4521210059@univpancasila.ac.id',
        style: TextStyle(
          color: Colors.teal.shade900,
        ),
      ),
    )),
  ],
)
```

```

        fontFamily: 'SourceSans3',
        fontSize: 20.0,
        fontWeight: FontWeight.bold,
      ),
    ),
  ],
),
);
}
;
}
;
```

6. File pubspec.yaml

```

name: kartu_ku
description: "A new Flutter project."
publish_to: 'none' # Remove this line if you wish to
publish to pub.dev

version: 1.0.0+1

environment:
  sdk: '>=3.3.0 <4.0.0'

dependencies:
  flutter:
    sdk: flutter

  cupertino_icons: ^1.0.6

dev_dependencies:
  flutter_test:
    sdk: flutter

  flutter_lints: ^3.0.0

flutter:
  uses-material-design: true
  assets:
    - images/girl.png

fonts:
  - family: Pacifico
    fonts:
      - asset: fonts/Pacifico-Regular.ttf

  - family: SourceSans3
    fonts:
      - asset: fonts/SourceSans3-Italic-
VariableFont_wght.ttf

```

```
- asset: fonts/SourceSans3-
VariableFont_wght.ttf
```

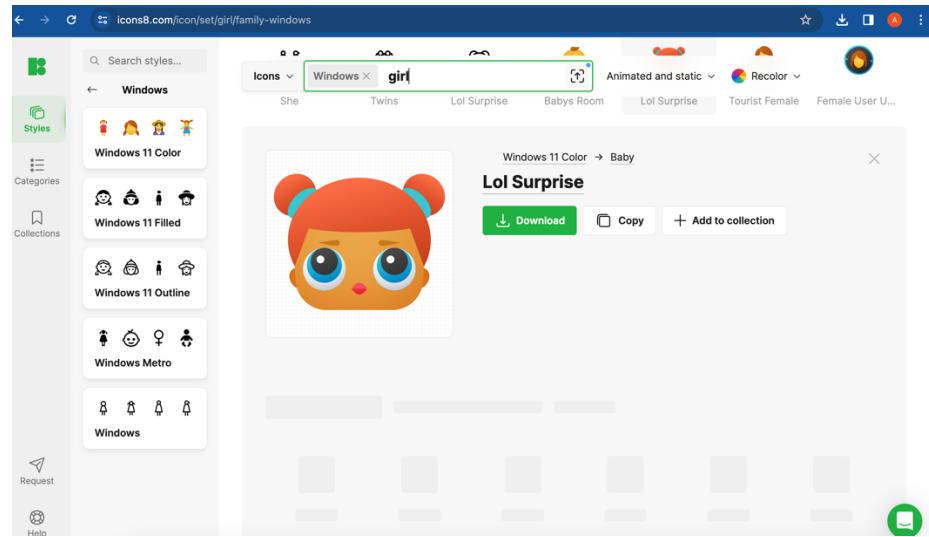
7. Update pub flutter

```
$ flutter pub get
```

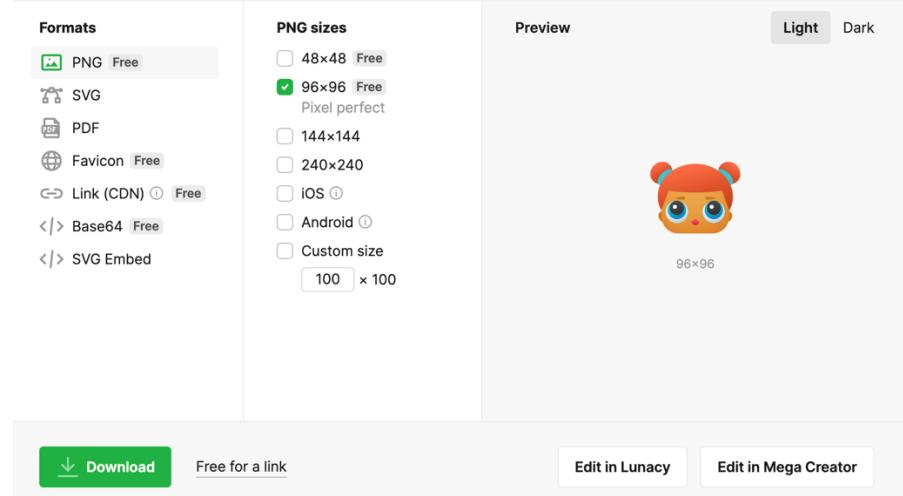
```
anps:kartuku Adel$ flutter pub get
Resolving dependencies...
  leak_tracker 10.0.0 (10.0.5 available)
  leak_tracker_flutter_testing 2.0.1 (3.0.5 available)
  leak_tracker_testing 2.0.1 (3.0.1 available)
  material_color_utilities 0.8.0 (0.11.1 available)
  meta 1.11.0 (1.12.0 available)
  test_api 0.6.1 (0.7.0 available)
  vm_service 13.0.0 (14.2.0 available)
Got dependencies!
7 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
You have new mail in /var/mail/Adel
anps:kartuku Adel$
```

b. Download Icon

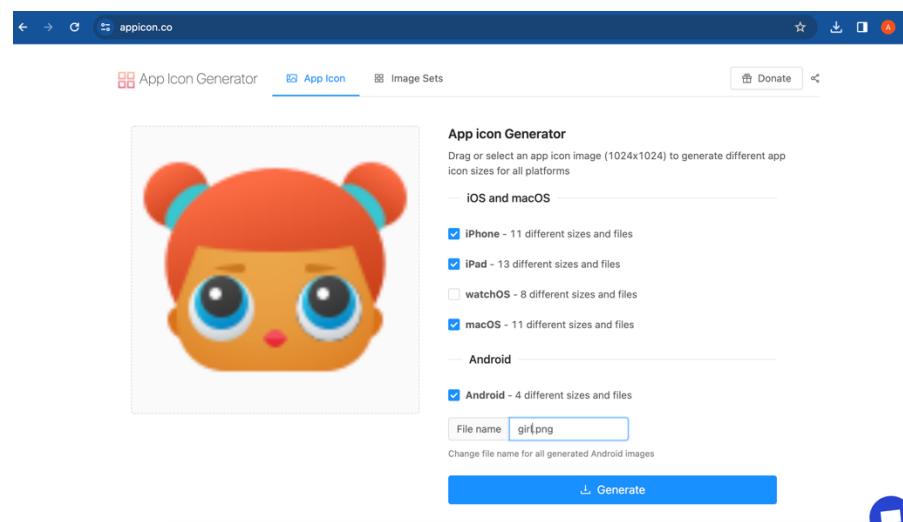
1. Go to <https://icons8.com/icons> -> Cari Icon -> Download



Download lol surprise icon



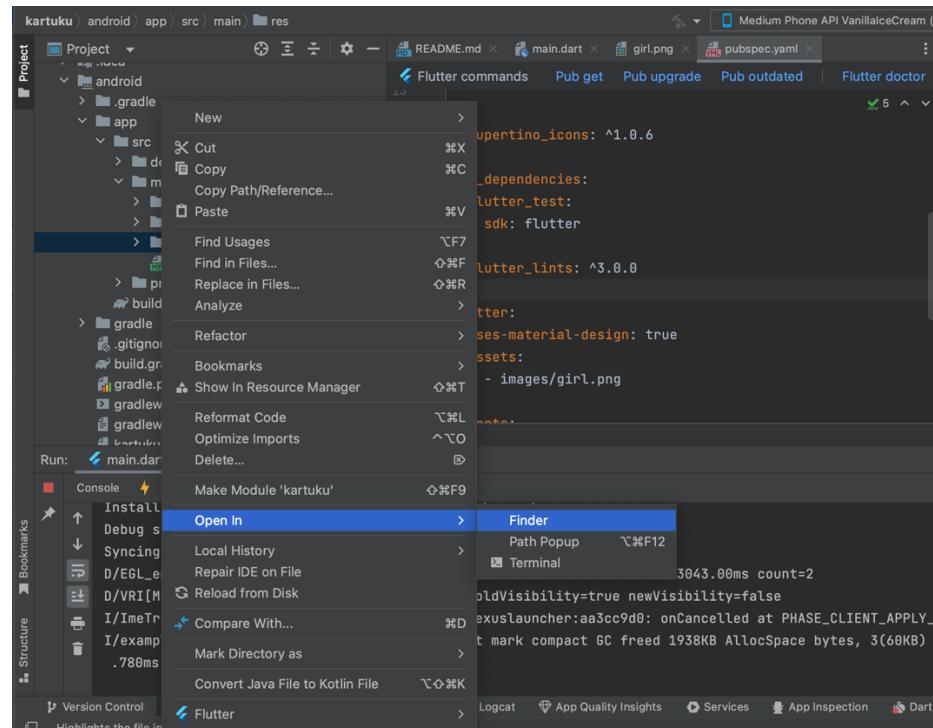
2. Generate icon pada <https://www.appicon.co/>



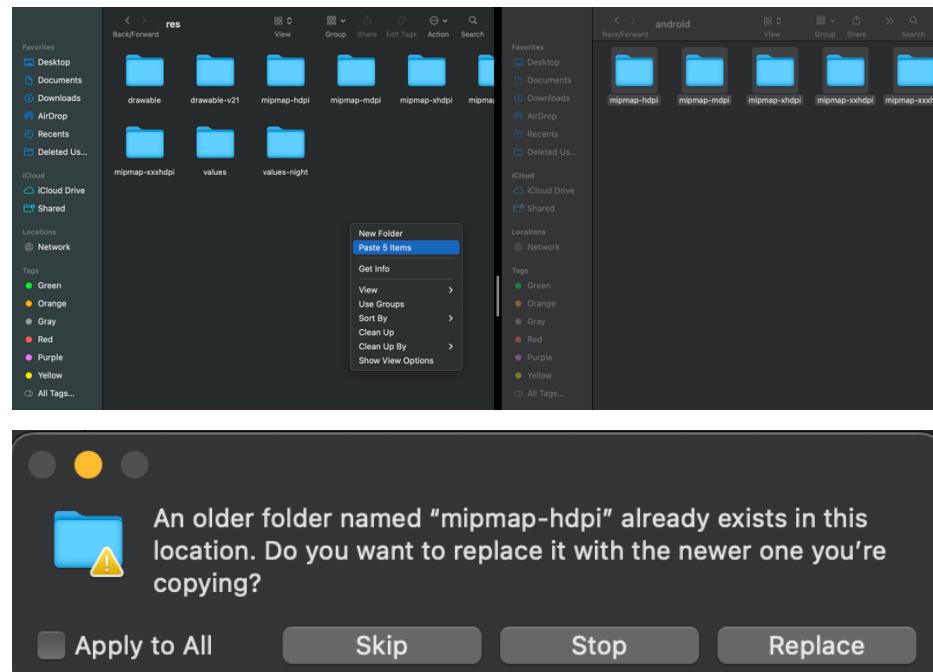
c. Replace Icon App

1. Go to folder

Android -> app -> src -> main -> res -> klik kanan -> Open in -> Finder

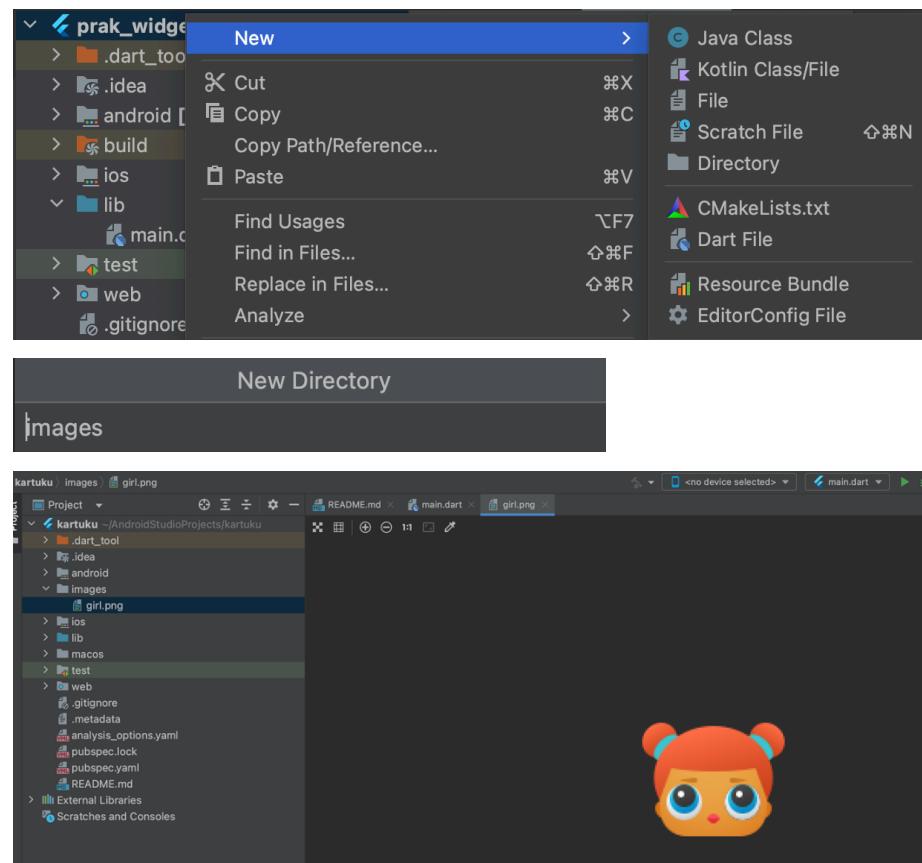


2. Copy folder hasil download Appicon zip ke res directory -> Replace

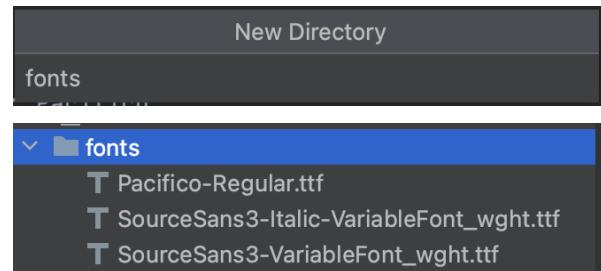


d. Create images directory

Klik kanan project -> New -> Directory

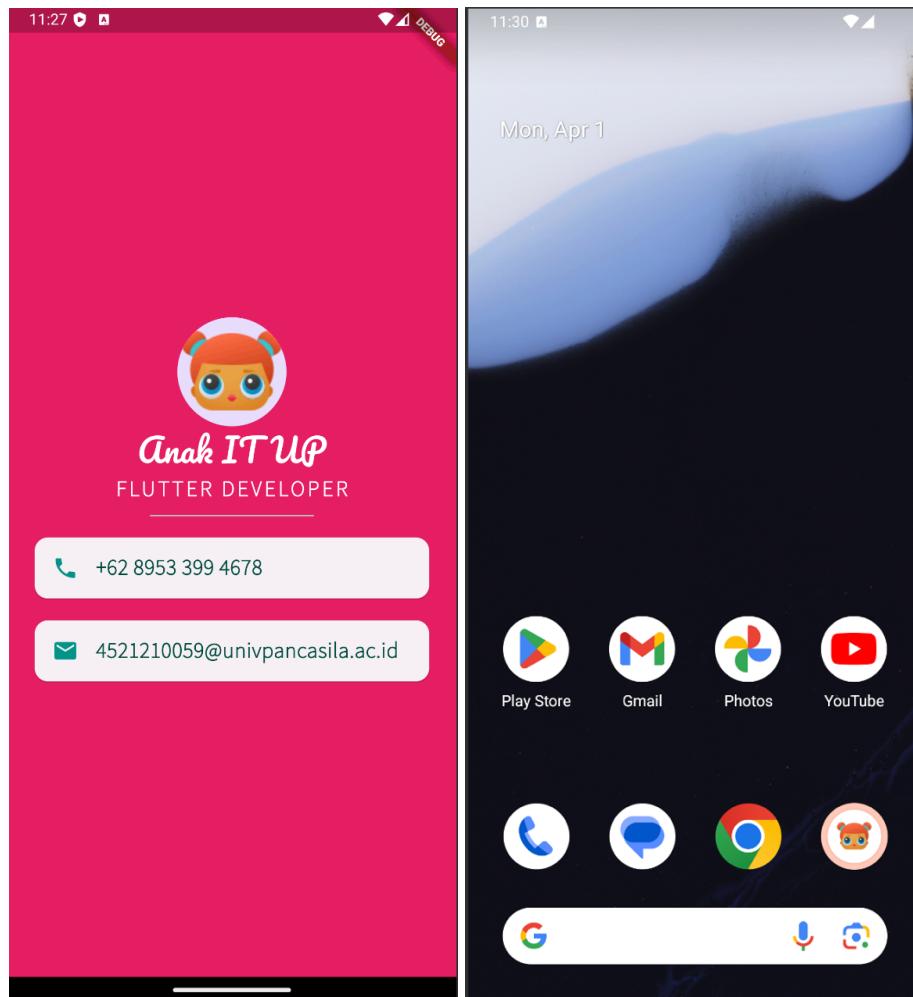
**e. Create fonts directory**

Klik kanan project -> New -> Directory



f. Run App

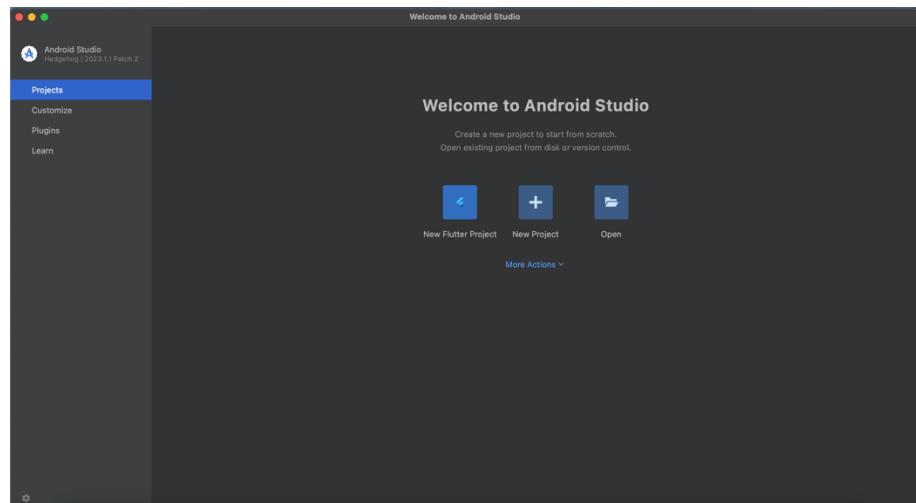
Pilih simulator -> Klik Icon Run



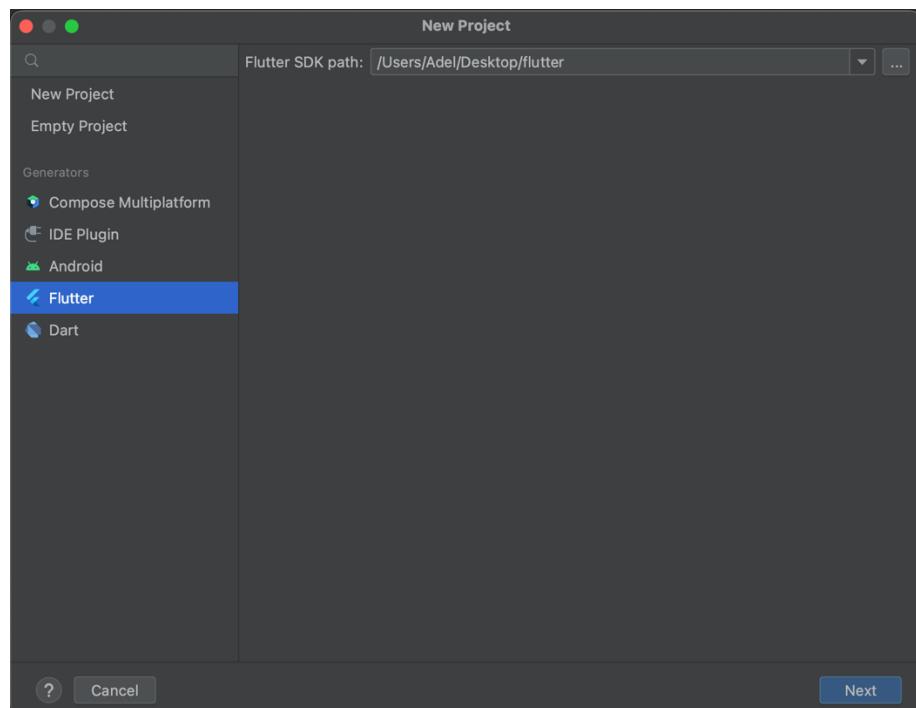
C. Project lempar_dadu

a. First Initialization

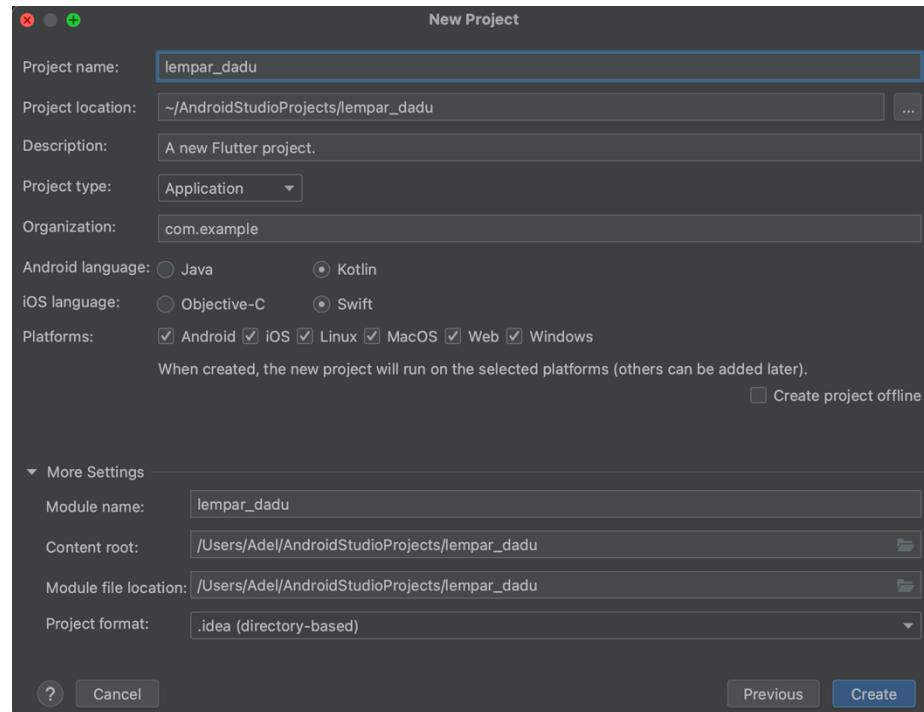
1. Akses web <https://docs.flutter.dev/ui/layout/tutorial>
2. Buka Android Studio



3. Pilih New Flutter Project -> Flutter -> Next



4. Isi form untuk nama project, tempat project, type, bahasa pemrograman, platforms dan lainnya -> Create



5. File main.dart

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

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

class AppDadu extends StatelessWidget {
    const AppDadu({super.key});

    @override
    Widget build(BuildContext context) {
        return MaterialApp(
            debugShowCheckedModeBanner: false,
            home: Scaffold(
                backgroundColor: Colors.blueAccent,
                appBar: AppBar(
                    title: const Text(
                        'Lempar Dadu',
                        style: TextStyle(
                            color: Colors.white,
                            fontWeight: FontWeight.bold,
                        ),
                    ),
                ),
            ),
        );
    }
}
```

```
        backgroundColor: Colors.blue,
    ),
    body: HalamanDadu(),
),
)
}
}

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

@override
// _HalamanDaduState createState() =>
HalamanDaduState();
State<HalamanDadu> createState() =>
HalamanDaduState();
}

class _HalamanDaduState extends State<HalamanDadu> {
int daduKiriNomor = 1;
int daduKananNomor = 1;

void acakDadu() {
setState(() {
daduKiriNomor = Random().nextInt(6) + 1;
daduKananNomor = Random().nextInt(6) + 1;
});
}

@Override
Widget build(BuildContext context) {
return Center(
child: Row(
children: <Widget>[
Expanded(
child: TextButton(
child: Image.asset(
'images/dadu$daduKiriNomor.png',
),
onPressed: () {
acakDadu();
},
),
),
Expanded(
child: TextButton(
child: Image.asset(
'images/dadu$daduKananNomor.png',
),
onPressed: () {
acakDadu();
},
),
),
],
),
),
)
```

```
    );
}
```

6. File pubspec.yaml

```
name: lempar_dadu
description: "A new Flutter project."
publish_to: 'none' # Remove this line if you wish to
publish to pub.dev

version: 1.0.0+1

environment:
  sdk: '>=3.3.0 <4.0.0'

dependencies:
  flutter:
    sdk: flutter
  cupertino_icons: ^1.0.6

dev_dependencies:
  flutter_test:
    sdk: flutter
  flutter_lints: ^3.0.0

flutter:
  uses-material-design: true
  assets:
    - images/
```

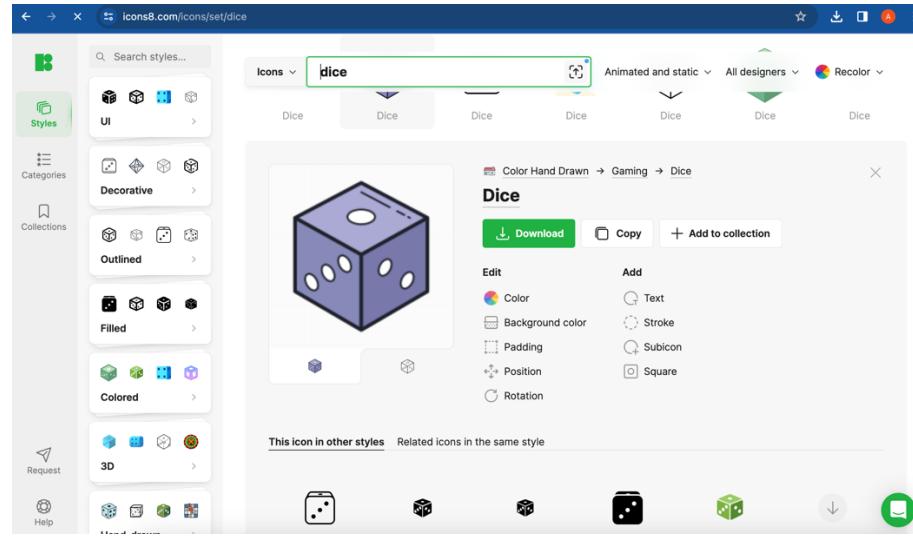
7. Update pub flutter

```
$ flutter pub get
```

```
anps:kartuku Adel$ flutter pub get
Resolving dependencies...
  leak_tracker 10.0.0 (10.0.5 available)
  leak_tracker_flutter_testing 2.0.1 (3.0.5 available)
  leak_tracker_testing 2.0.1 (3.0.1 available)
  material_color_utilities 0.8.0 (0.11.1 available)
  meta 1.11.0 (1.12.0 available)
  test_api 0.6.1 (0.7.0 available)
  vm_service 13.0.0 (14.2.0 available)
Got dependencies!
7 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
You have new mail in /var/mail/Adel
anps:kartuku Adel$
```

b. Download Icon

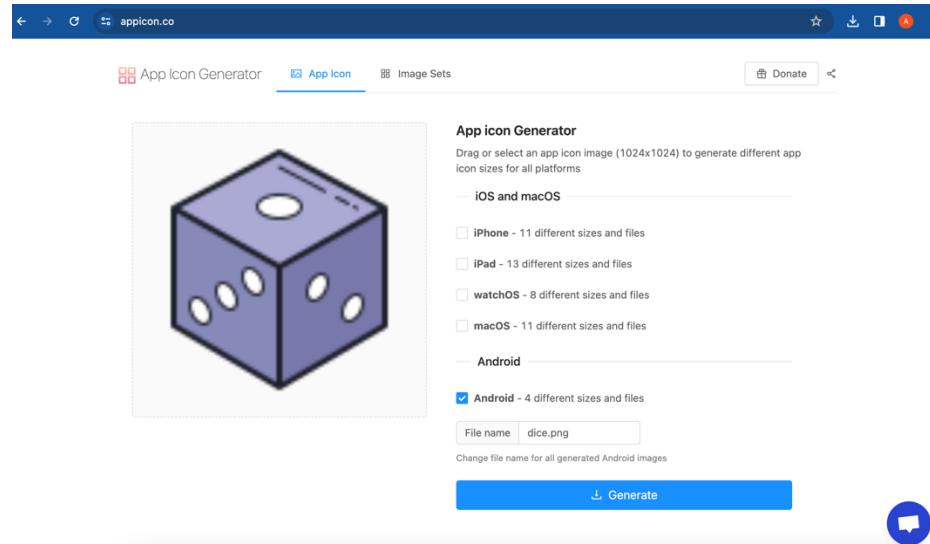
1. Go to <https://icons8.com/icons> -> Cari Icon -> Download



Download dice icon

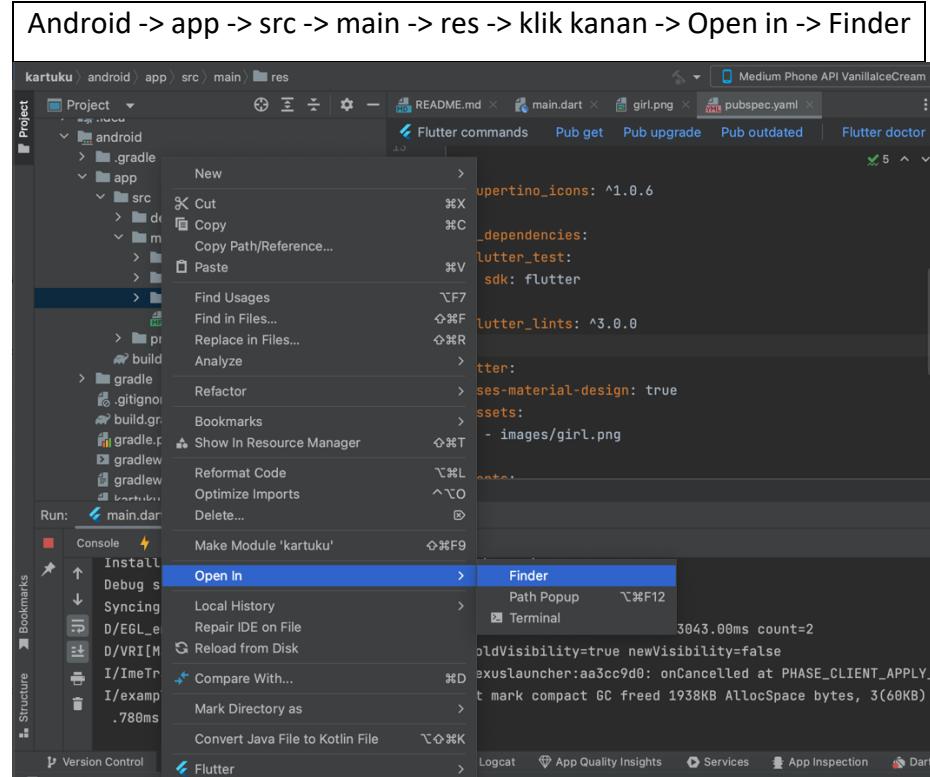
Formats	PNG sizes	Preview
PNG Free SVG PDF Favicon Free Link (CDN) ⓘ Free Base64 Free SVG Embed	<input checked="" type="checkbox"/> 100x100 <small>Free</small> <small>Pixel perfect</small> <input type="checkbox"/> 200x200 <input type="checkbox"/> 400x400 <input type="checkbox"/> iOS ⓘ <input type="checkbox"/> Android ⓘ <input type="checkbox"/> Custom size 100 <input type="text"/> x 100	<div style="display: flex; align-items: center;"> Light Dark  100x100 </div>
Download		Edit in Lunacy Edit in Mega Creator

2. Generate icon pada <https://www.appicon.co/>

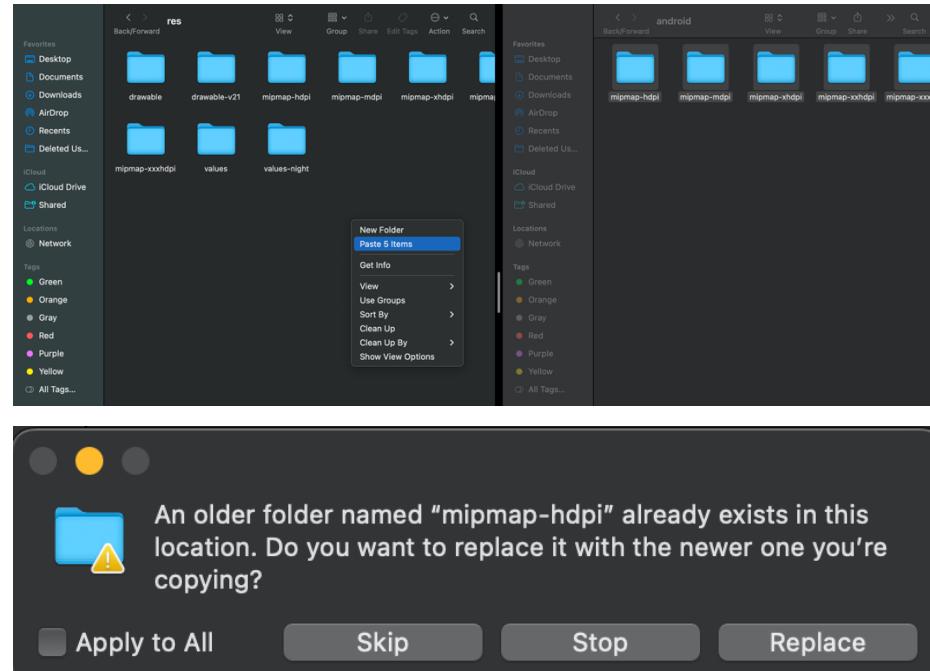


c. Replace Icon App

1. Go to folder

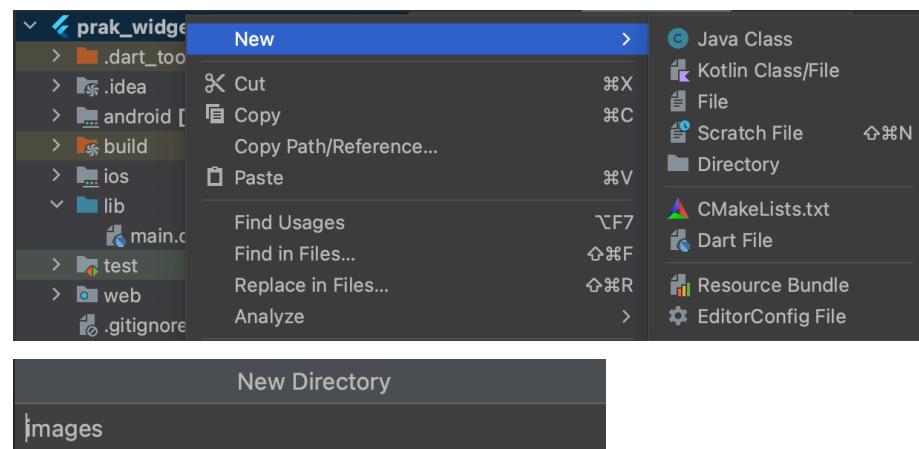


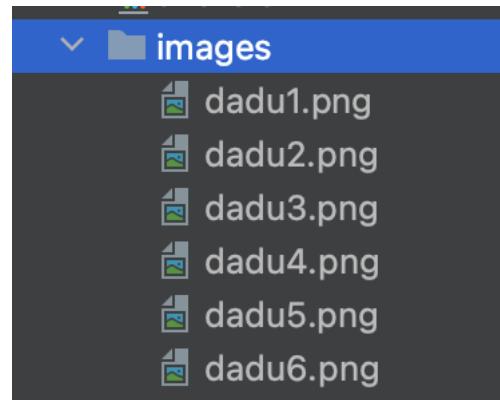
2. Copy folder hasil download AppIcon zip ke res directory -> Replace



d. Create images directory

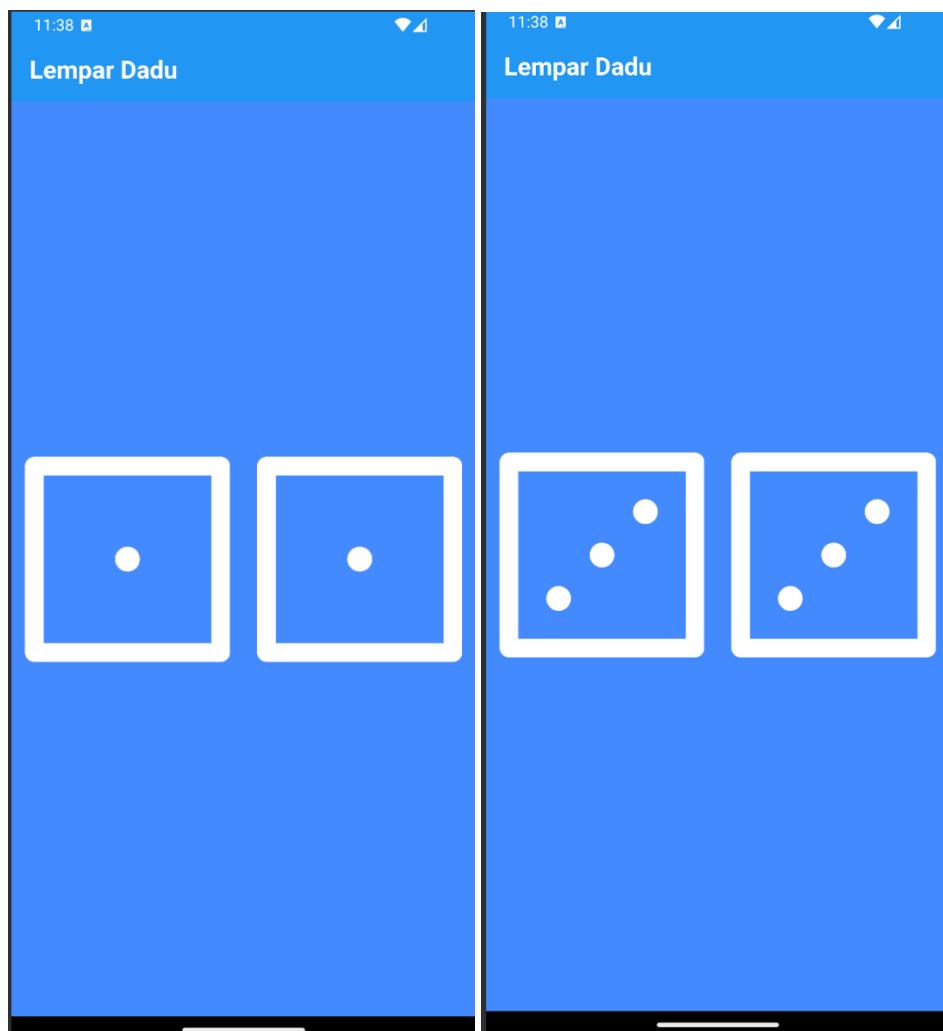
Klik kanan project -> New -> Directory

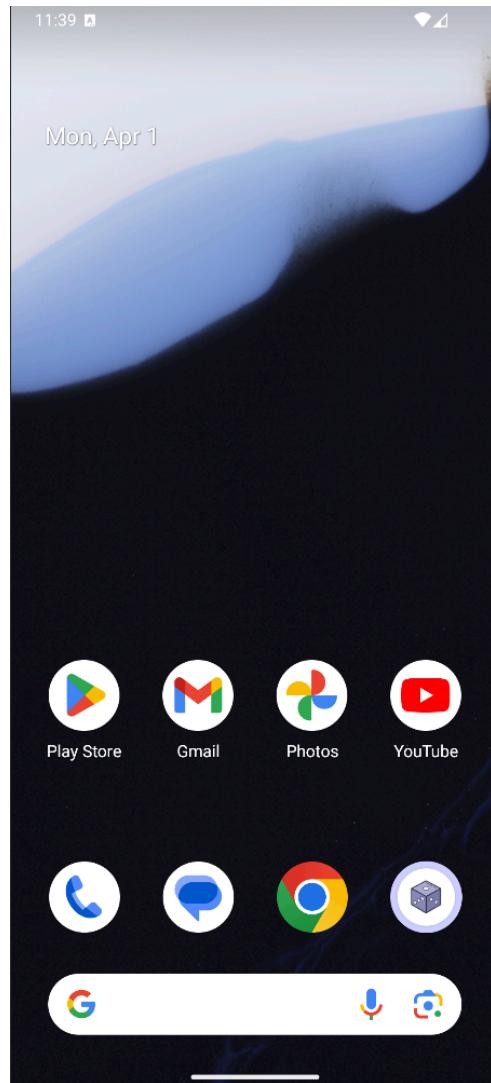




e. Run App

Pilih simulator -> Klik Icon Run





D. Push Code to GitHub https://github.com/adelianurlinap/Prak_PBM.git

- Clone Repository yang telah dibuat :

```
git clone https://github.com/adelianurlinap/Prak_PBM.git
```

- Add dan commit

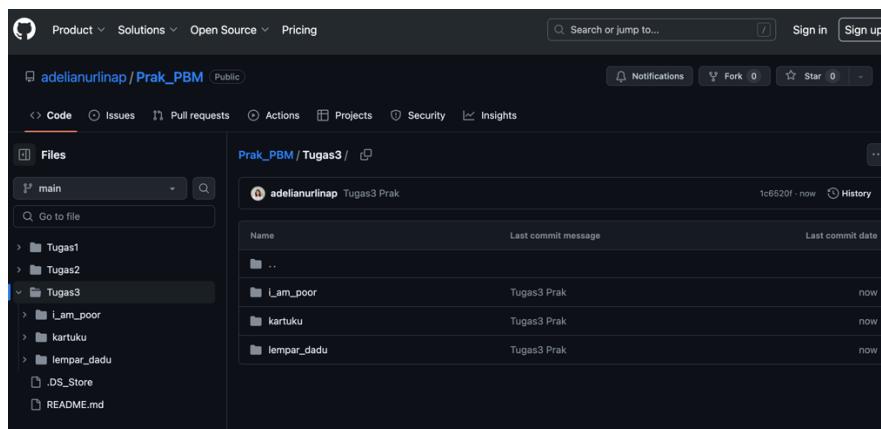
```
git add .  
git commit -m "Tugas2"
```

c. Push code

```
git push
```

```

Tugas3 - bash - 94x42
create mode 100644 Tugas3/lempar_dadu/macos/Runner/MainFlutterWindow.swift
create mode 100644 Tugas3/lempar_dadu/macos/Runner/Release.entitlements
create mode 100644 Tugas3/lempar_dadu/macos/RunnerTests/RunnerTests.swift
create mode 100644 Tugas3/lempar_dadu/pubspec.lock
create mode 100644 Tugas3/lempar_dadu/pubspec.yaml
create mode 100644 Tugas3/lempar_dadu/test/widget_test.dart
create mode 100644 Tugas3/lempar_dadu/web/favicon.png
create mode 100644 Tugas3/lempar_dadu/web/icons/icon-192.png
create mode 100644 Tugas3/lempar_dadu/web/icons/icon-512.png
create mode 100644 Tugas3/lempar_dadu/web/icons/icon-maskable-192.png
create mode 100644 Tugas3/lempar_dadu/web/icons/icon-maskable-512.png
create mode 100644 Tugas3/lempar_dadu/web/index.html
create mode 100644 Tugas3/lempar_dadu/web/manifest.json
create mode 100644 Tugas3/lempar_dadu/windows/.gitignore
create mode 100644 Tugas3/lempar_dadu/windows/CMakeLists.txt
create mode 100644 Tugas3/lempar_dadu/windows/flutter/CMakeLists.txt
create mode 100644 Tugas3/lempar_dadu/windows/flutter/generated_plugin_registrant.cc
create mode 100644 Tugas3/lempar_dadu/windows/flutter/generated_plugin_registrant.h
create mode 100644 Tugas3/lempar_dadu/windows/flutter/generated_plugins.cmake
create mode 100644 Tugas3/lempar_dadu/windows/runner/CMakeLists.txt
create mode 100644 Tugas3/lempar_dadu/windows/runner/Runner.rc
create mode 100644 Tugas3/lempar_dadu/windows/runner/flutter_window.cpp
create mode 100644 Tugas3/lempar_dadu/windows/runner/flutter_window.h
create mode 100644 Tugas3/lempar_dadu/windows/runner/main.cpp
create mode 100644 Tugas3/lempar_dadu/windows/runner/resource.h
create mode 100644 Tugas3/lempar_dadu/windows/runner/resources/app_icon.ico
create mode 100644 Tugas3/lempar_dadu/windows/runner/runner.exe.manifest
create mode 100644 Tugas3/lempar_dadu/windows/runner/utils.cpp
create mode 100644 Tugas3/lempar_dadu/windows/runner/utils.h
create mode 100644 Tugas3/lempar_dadu/windows/runner/win32_window.cpp
create mode 100644 Tugas3/lempar_dadu/windows/runner/win32_window.h
anps:Tugas3 Adel$ git push
Enumerating objects: 316, done.
Counting objects: 100% (316/316), done.
Delta compression using up to 8 threads
Compressing objects: 100% (256/256), done.
Writing objects: 100% (315/315), 2.21 MiB | 1.21 MiB/s, done.
Total 315 (delta 58), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (58/58), completed with 1 local object.
To https://github.com/adelianurlinap/Prak_PBM.git
  382b078..1c6520f main -> main
anps:Tugas3 Adel$ 
```



E. Kesimpulan

Pada tugas 3 ini, telah dilakukan praktek untuk membuat widget stateless dan stateful.

F. Referensi

<https://github.com/adiwp/MobileProjects>