

Pemrograman Lanjut - Bab 2. Dart Basic

Bab 3. Flutter Layout

Dosen Pengampu

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Disusun Oleh :

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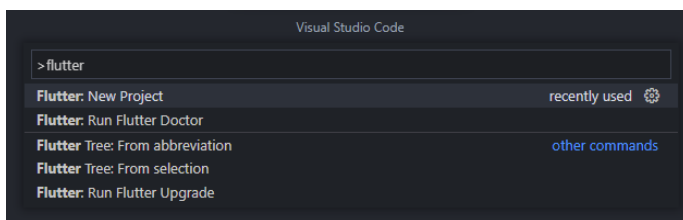
**D3 PJJ AK TEKNIK INFORMATIKA
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA
TAHUN AKADEMIK 2021/2022**

Widget pada flutter :

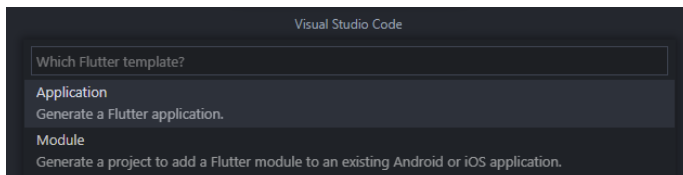
- MyApp adalah StatelessWidget, merupakan widget induk;
- MaterialApp adalah widget yang membungkus beberapa widget yang menggunakan tema material design 1;
- Scaffold adalah widget untuk struktur dasar material design;
- AppBar adalah widget untuk membuat AppBar;
- Center adalah Widget layout untuk membuat widget ke tengah;
- Text adalah widget untuk membuat teks.

Membuat Project Flutter di VS Code

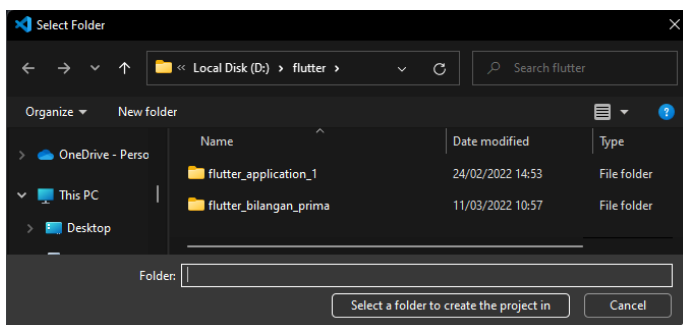
Tekan tombol Ctrl+Shift+P, lalu pilih New Project.



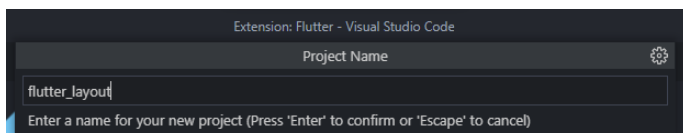
Pilih Application



Pilih tempat penyimpanan project



Membari nama project



1. Percobaan 1 : Tampilan 1 (Judul)

Source Code file main.dart

```

import 'package:flutter/material.dart';

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

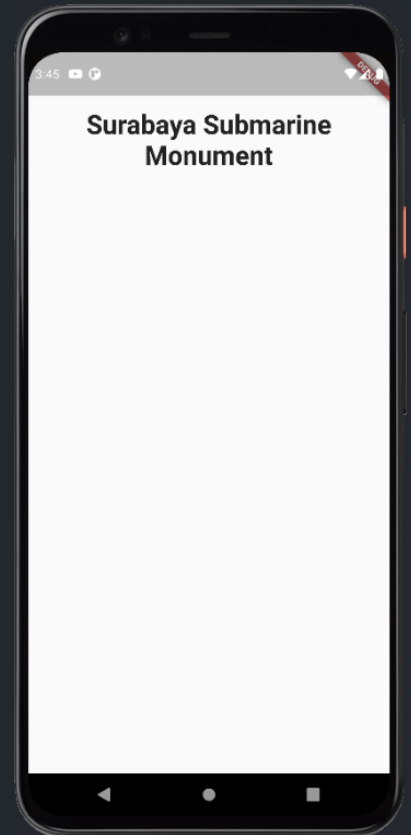
class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Contacts',
      theme: ThemeData(),
      home: const DetailScreen(),
    );
  }
}

class DetailScreen extends StatelessWidget {
  const DetailScreen({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(
        child: Column(
          children: <Widget>[
            Container(
              margin: EdgeInsets.only(top: 16.0),
              child: Text(
                "Surabaya Submarine Monument",
                textAlign: TextAlign.center,
                style: TextStyle(
                  fontSize: 30.0,
                  fontWeight: FontWeight.bold,
                ),
              ),
            ),
          ],
        ),
      ),
    );
  }
}

```

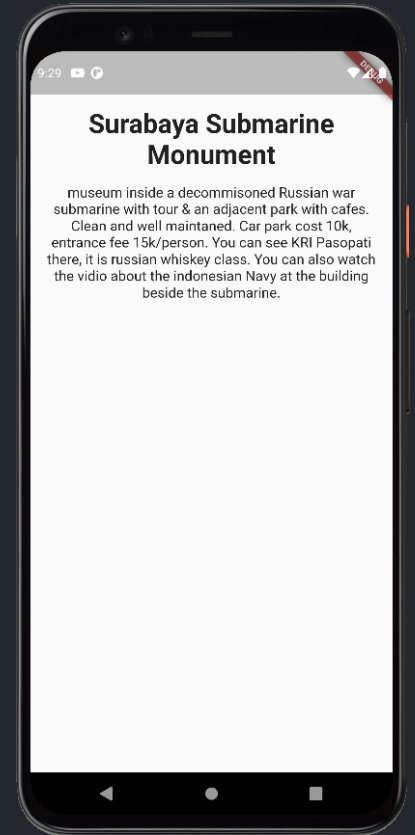


2. Percobaan 2 : tampilan 2 (Deskripsi)

Menambah kode program pada method build class DetailScreen

```
import 'package:flutter/material.dart';
void main() {
  runApp(const MyApp());
}
class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Contacts',
      theme: ThemeData(),
      home: const DetailScreen(),
    );
  }
}
class DetailScreen extends StatelessWidget {
  const DetailScreen({Key? key}) : super(key: key);

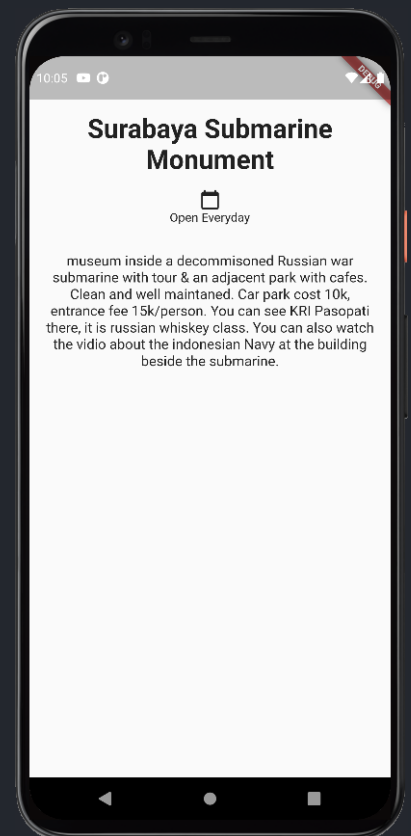
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(
        child: Column(
          children: <Widget>[
            Container(
              margin: EdgeInsets.only(top: 16.0),
              child: Text(
                "Surabaya Submarine Monument",
                textAlign: TextAlign.center,
                style: TextStyle(
                  fontSize: 30.0,
                  fontWeight: FontWeight.bold,
                ),
              ),
            ),
            Container(
              padding: const EdgeInsets.all(16.0),
              child: const Text(
                'museum inside a decommissioned Russian war submarine with tour & an adjacent park with cafes. Clean and well maintained. Car park cost 10k, entrance fee 15k/person. You can see KRI Pasopati there, it is russian whiskey class. You can also watch the vidio about the indonesian Navy at the building beside the submarine.',
                textAlign: TextAlign.center,
                style: TextStyle(fontSize: 16.0),
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```



3. Percobaan 3: Tampilan 3 (Icon)

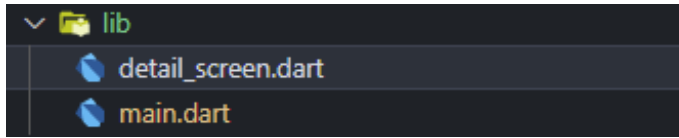
Menambahkan icon dan text dengan cara menambah container baru dibawah container judul dan di atas container deskripsi

```
class DetailScreen extends StatelessWidget {
  const DetailScreen({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(
        child: Column(
          children: <Widget>[
            Container( //container...
            Container(
              margin: const EdgeInsets.symmetric(vertical: 16.0),
              child: Row(
                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                children: <Widget>[
                  Column(
                    children: const <Widget>[
                      Icon(Icons.calendar_today),
                      Text('Open Everyday'),
                    ],
                  ),
                ],
              ),
            ),
            Container( //container...
          ],
        ),
      ),
    );
  }
}
```

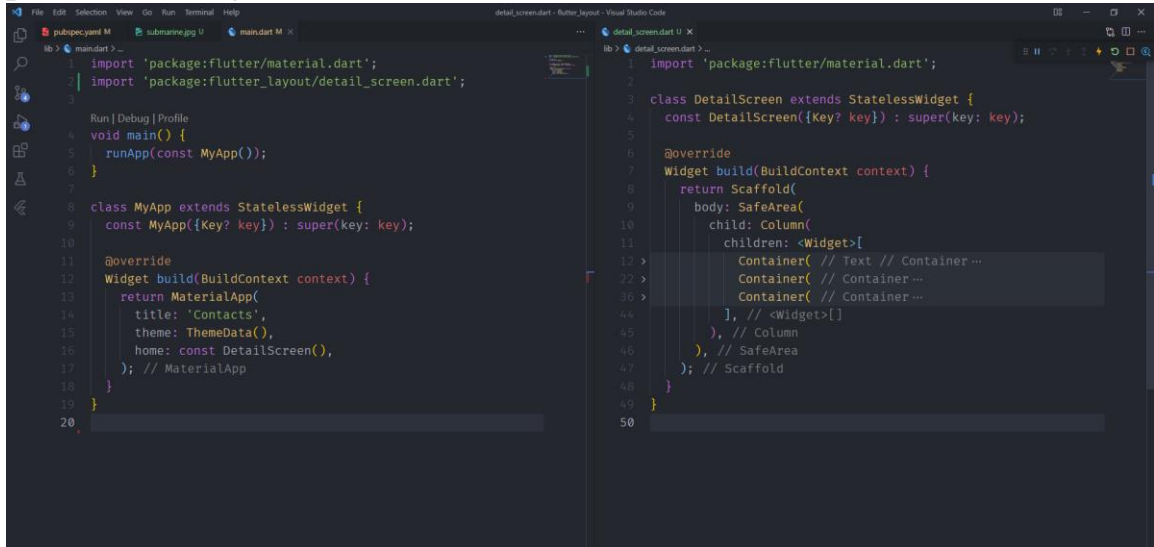


4. Percobaan 4: Tampilan 4 (Image)

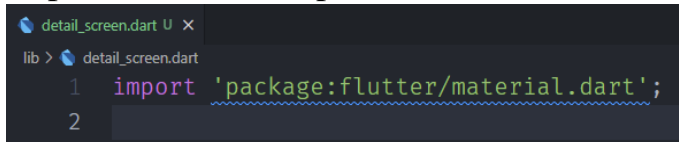
Membuat file detail_screen.dart



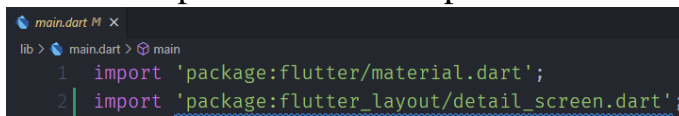
Untuk memudahkan dalam membaca sekaligus merapikan source code, pindahkan widget atau class DetailScreen ke file detail_screen.dart



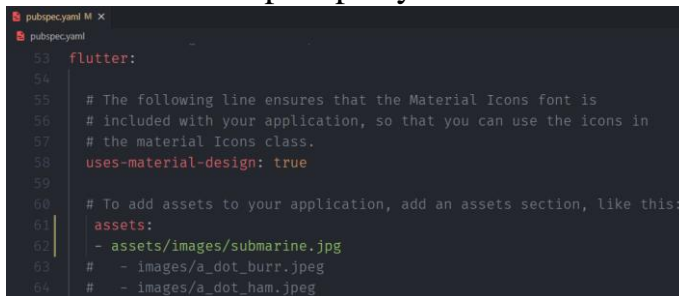
Import material.dart pada file detail_screen.dart



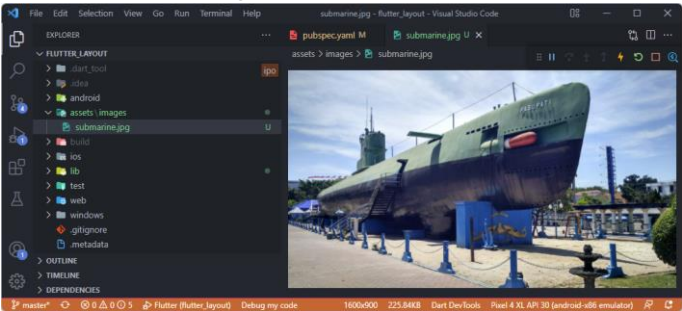
Tambah import detail screen pada file main.dart



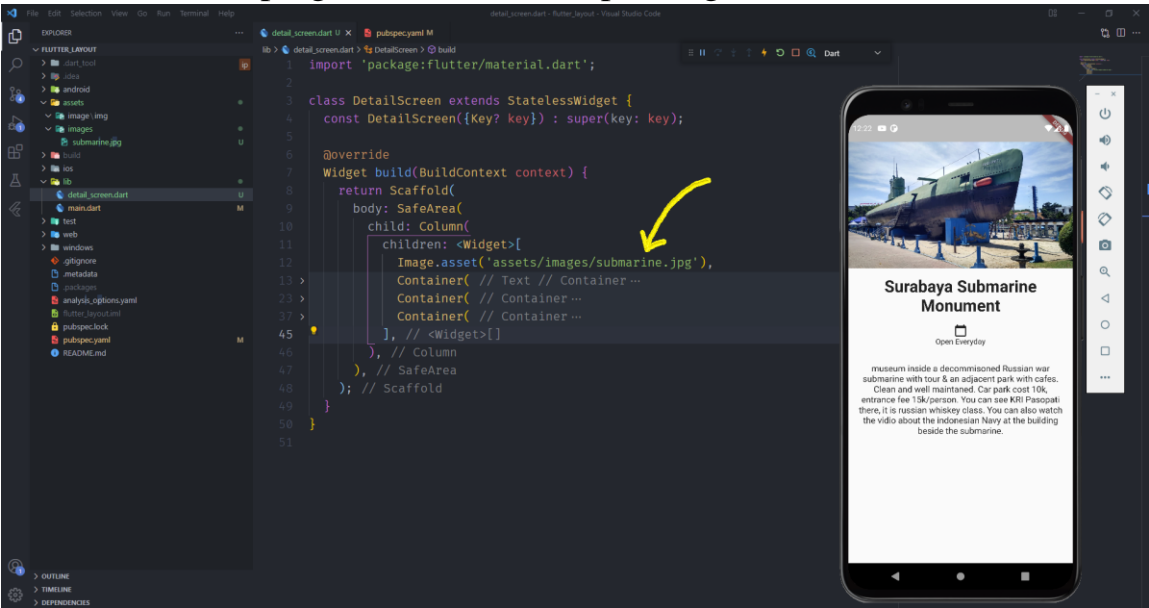
Edit source code pubspec.yaml untuk memanggil gambar



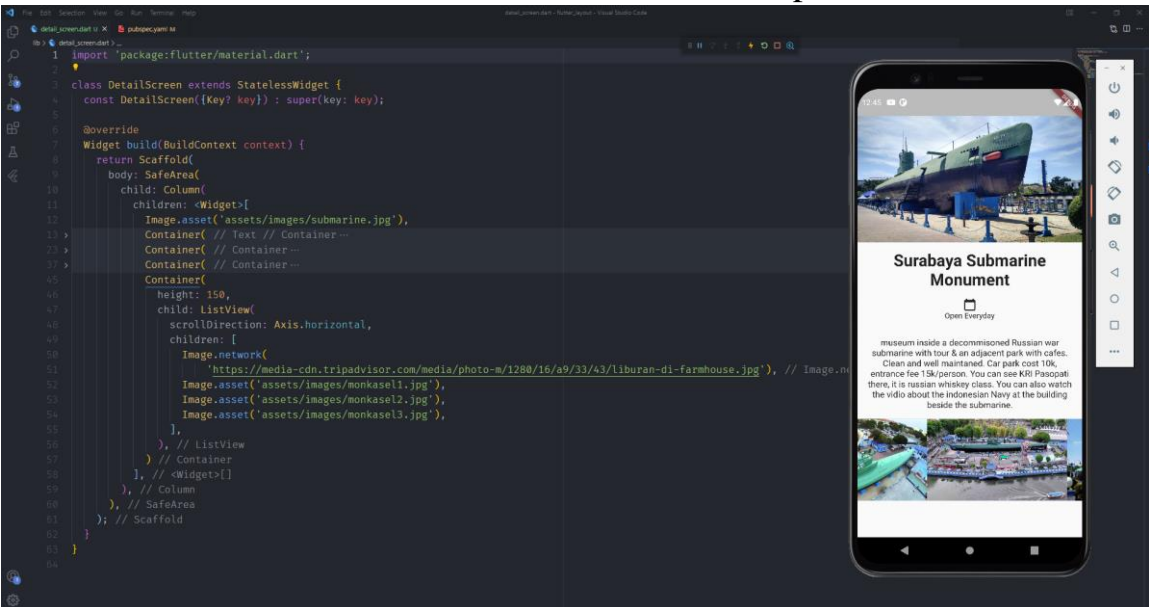
Menambahkan gambar dalam folder assets/images/submarine.jpg



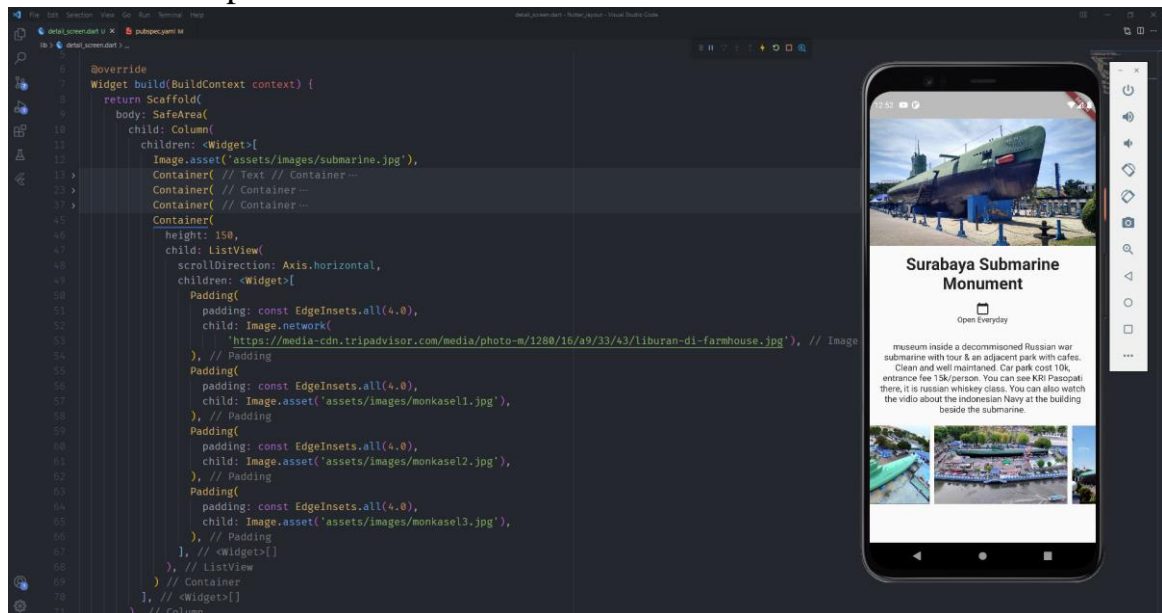
Menambah kode program untuk menampilkan gambar



Menambah container baru di bawah container Description

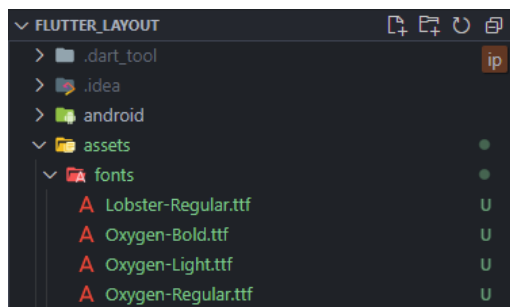


Menambahkan padding pada masing-masing image supaya antar gambar tidak terlalu rapat

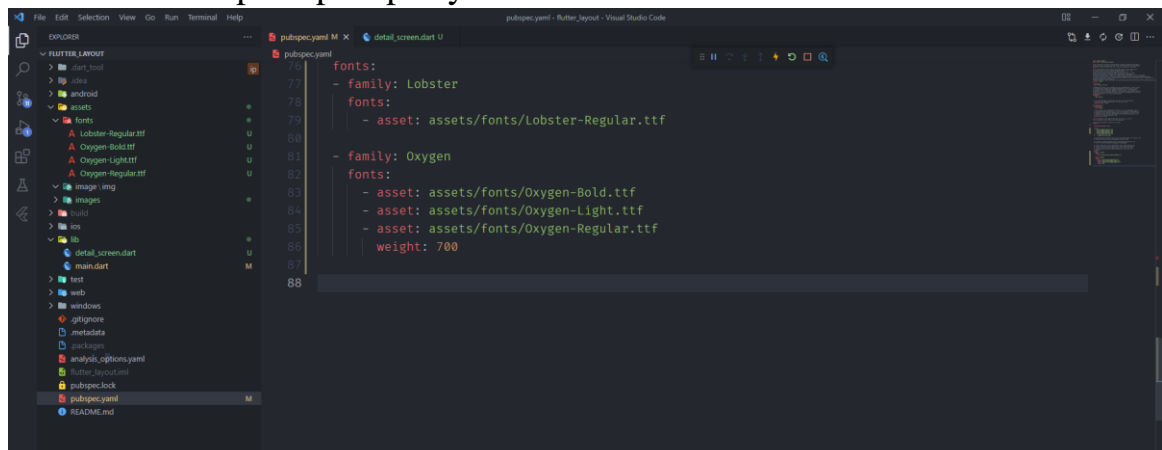


5. Percobaan 5: Tampilan 5 (Font) Mengubah font

Menambahkan font di folder assets/fonts



Daftarkan font pada pubspec.yaml



Gunakan font Lobster untuk judul

```
Container(
  margin: EdgeInsets.only(top: 16.0),
  child: Text("Surabaya Submarine Monument",
    textAlign: TextAlign.center,
    style: TextStyle(
      fontSize: 30.0,
      fontFamily: 'Lobster',
    ),
  ),
),
```

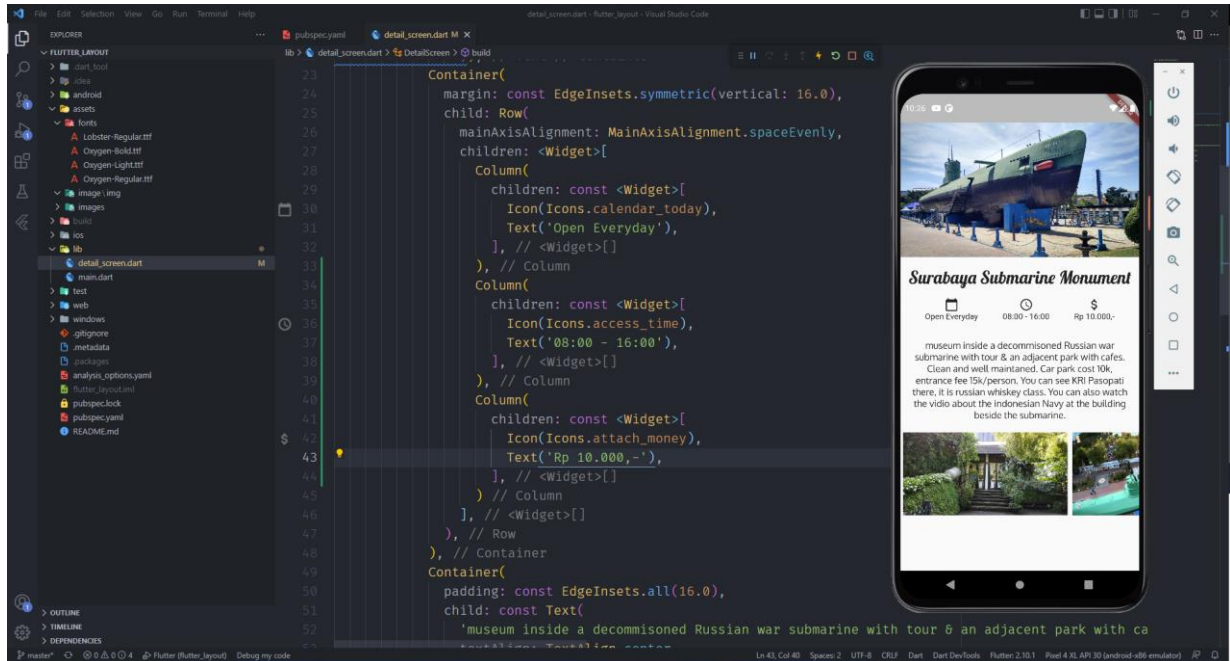
Gunakan font Oxygen untuk deskripsi

```
Container(
  padding: const EdgeInsets.all(16.0),
  child: const Text(
    'museum inside a decommissioned Russian war submarine with tour & an adjacent park with cafes. Clean and well maintained. Car park cost 10k, entrance fee 15k/person. You can see KRI Pasopati there, it is russian whiskey class. You can also watch the vidio about the indonesian Navy at the building beside the submarine.',
    textAlign: TextAlign.center,
    style: TextStyle(
      fontSize: 16.0,
      fontFamily: 'Oxygen',
    ),
  ),
),
```



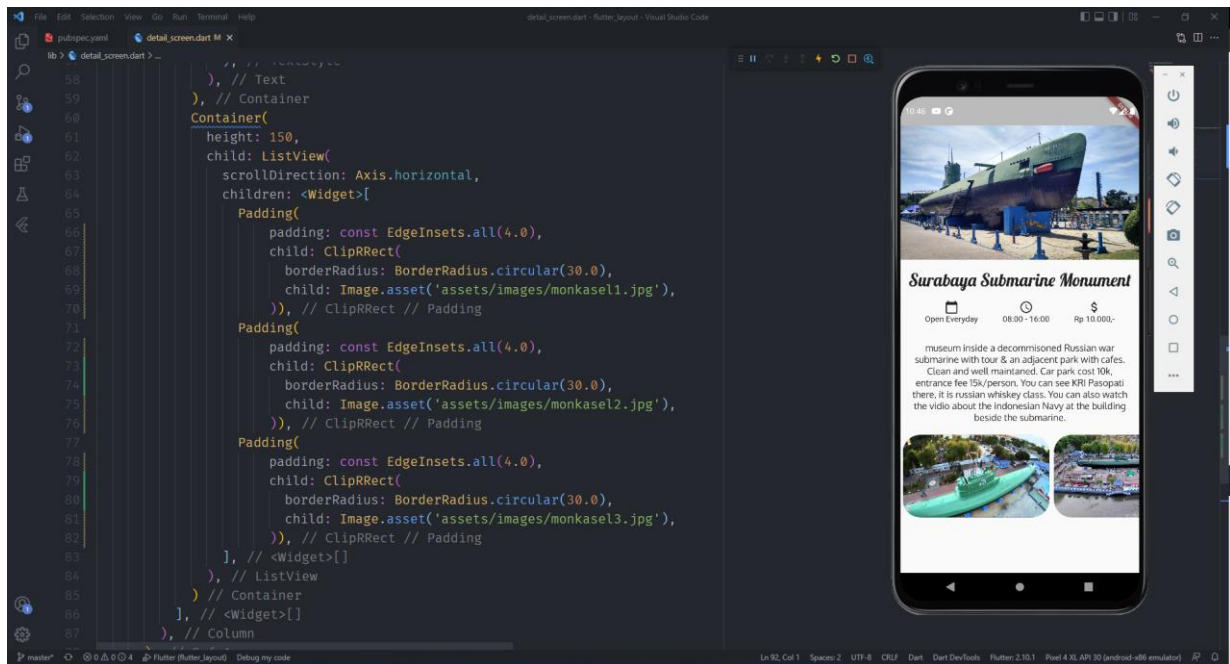
LATIHAN

Menambahkan widget informasi jam dan harga tiket.



TUGAS

Mengubah gallery gambar sehingga memiliki rounded corner





https://github.com/FazaZas/flutter_layout.git