Animasi grafis menggunakan flutter

Buatlah file main.dart lalu masukkan script berikut

```dart
import 'dart:math';

import 'package:flutter/material.dart';

void main() => runApp(App());

class App extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: HomePage(),
    );
  }
}

class HomePage extends StatefulWidget {
  @override
  _HomePageState createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  var type = 'sales';
  var mon = 150.0;
  var tue = 120.0;
  var wed = 20.0;
  var thu = 130.0;
  var fri = 190.0;
  var sat = 110.0;
  var sun = 87.0;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Animasi Grafis Flutter'),
      ),
      body: Center(
        child: Card(
          color: Colors.white,
          shape: RoundedRectangleBorder(
            side: BorderSide(color: Colors.grey[300]!),
            borderRadius: BorderRadius.all(
```

```dart
                    Radius.circular(8),
                ),
            ),
            child: Padding(
              padding: EdgeInsets.all(16.0),
              child: Column(
                mainAxisSize: MainAxisSize.min,
                children: [
                  Row(
                    children: [
                      GestureDetector(
                        onTap: () {
                          setState(() {
                            if (type == 'sales') return;
                            type = 'sales';
                            _changeType();
                          });
                        },
                        child: Text(
                          'Sales',
                          style: TextStyle(
                            fontWeight: type == 'sales'
                                ? FontWeight.bold
                                : FontWeight.normal,
                          ),
                        ),
                      ),
                      SizedBox(width: 16),
                      GestureDetector(
                        onTap: () {
                          setState(() {
                            if (type == 'transaction') return;
                            type = 'transaction';
                            _changeType();
                          });
                        },
                        child: Text(
                          'Transaction',
                          style: TextStyle(
                            fontWeight: type == 'transaction'
                                ? FontWeight.bold
                                : FontWeight.normal,
                          ),
                        ),
                      ),
```

```dart
                    SizedBox(width: 16),
                    GestureDetector(
                      onTap: () {
                        setState(() {
                          if (type == 'visitor') return;
                          type = 'visitor';
                          _changeType();
                        });
                      },
                      child: Text(
                        'Visitor',
                        style: TextStyle(
                          fontWeight: type == 'visitor'
                                ? FontWeight.bold
                                : FontWeight.normal,
                        ),
                      ),
                    ),
                  ],
                ),
                SizedBox(height: 16),
                SizedBox(
                  height: 200,
                  child: Row(
                    mainAxisAlignment: MainAxisAlignment.spaceBetween,
                    children: [
                      SizedBox(
                        width: 30,
                        child: Column(
                          mainAxisAlignment:
MainAxisAlignment.spaceBetween,
                          crossAxisAlignment: CrossAxisAlignment.end,
                          children: [
                            Text('400'),
                            Text('300'),
                            Text('200'),
                            Text('100'),
                            Text('0'),
                          ],
                        ),
                      ),
                      _buildWidgetBarChart(mon),
                      _buildWidgetBarChart(tue),
                      _buildWidgetBarChart(wed),
                      _buildWidgetBarChart(thu),
```

```dart
              _buildWidgetBarChart(fri),
              _buildWidgetBarChart(sat),
              _buildWidgetBarChart(sun),
            ],
          ),
        ),
        SizedBox(height: 8),
        Row(
          mainAxisAlignment: MainAxisAlignment.spaceBetween,
          children: [
            SizedBox(
              width: 30,
              child: Text(''),
            ),
            SizedBox(
              width: 30,
              child: Text(
                'Mon',
                textAlign: TextAlign.center,
              ),
            ),
            SizedBox(
              width: 30,
              child: Text(
                'Tue',
                textAlign: TextAlign.center,
              ),
            ),
            SizedBox(
              width: 30,
              child: Text(
                'Wed',
                textAlign: TextAlign.center,
              ),
            ),
            SizedBox(
              width: 30,
              child: Text(
                'Thu',
                textAlign: TextAlign.center,
              ),
            ),
            SizedBox(
              width: 30,
              child: Text(
```

```dart
                  'Fri',
                  textAlign: TextAlign.center,
                ),
              ),
              SizedBox(
                width: 30,
                child: Text(
                  'Sat',
                  textAlign: TextAlign.center,
                ),
              ),
              SizedBox(
                width: 30,
                child: Text(
                  'Sun',
                  textAlign: TextAlign.center,
                ),
              ),
            ],
          ),
        ],
      ),
    ),
  );
}

void _changeType() {
  mon = Random().nextInt(200).floorToDouble();
  tue = Random().nextInt(200).floorToDouble();
  wed = Random().nextInt(200).floorToDouble();
  thu = Random().nextInt(200).floorToDouble();
  fri = Random().nextInt(200).floorToDouble();
  sat = Random().nextInt(200).floorToDouble();
  sun = Random().nextInt(200).floorToDouble();
}

Widget _buildWidgetBarChart(double value) {
  return SizedBox(
    width: 30,
    child: Stack(
      children: [
        Align(
          alignment: Alignment.bottomCenter,
```

```dart
            child: Container(
              height: 200,
              width: 6,
              decoration: BoxDecoration(
                borderRadius: BorderRadius.all(
                  Radius.circular(8),
                ),
                color: Colors.grey[200],
              ),
            ),
          ),
          Align(
            alignment: Alignment.bottomCenter,
            child: AnimatedContainer(
              duration: Duration(milliseconds: 500),
              curve: Curves.fastOutSlowIn,
              height: value,
              width: 6,
              decoration: BoxDecoration(
                borderRadius: BorderRadius.all(
                  Radius.circular(8),
                ),
                color: Colors.blue,
              ),
            ),
          ),
        ],
      ),
    );
  }
}
```

Jika dijalankan maka akan menghasilkan tampilan seperti berikut

Animasi Grafis Flutter

DEBUG

Sales Transaction **Visitor**

400

300

200

100

0

Mon Tue Wed Thu Fri Sat Sun