Laporan Ujian Akhir Semester

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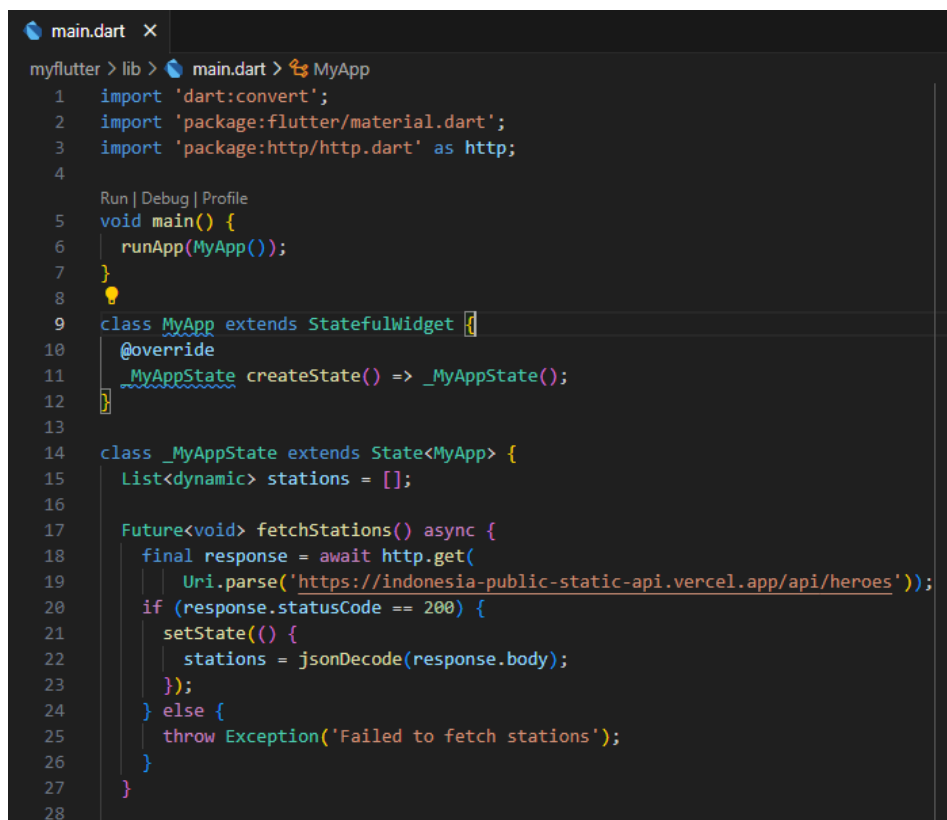
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Mata Kuliah   : Pemrograman Mobile

Membuat Aplikasi Mobile Menampilkan Data dari Api dengan Framework Flutter

Link API Pahlawan Indonesia : https://indonesia-public-static-api.vercel.app/api/heroes

1. Syntax

```dart
main.dart ×
myflutter > lib > main.dart > MyApp
1   import 'dart:convert';
2   import 'package:flutter/material.dart';
3   import 'package:http/http.dart' as http;
4
    Run | Debug | Profile
5   void main() {
6     runApp(MyApp());
7   }
8
9   class MyApp extends StatefulWidget {
10    @override
11    _MyAppState createState() => _MyAppState();
12  }
13
14  class _MyAppState extends State<MyApp> {
15    List<dynamic> stations = [];
16
17    Future<void> fetchStations() async {
18      final response = await http.get(
19          Uri.parse('https://indonesia-public-static-api.vercel.app/api/heroes'));
20      if (response.statusCode == 200) {
21        setState(() {
22          stations = jsonDecode(response.body);
23        });
24      } else {
25        throw Exception('Failed to fetch stations');
26      }
27    }
28
```

```dart
29        @override
30        void initState() {
31          super.initState();
32          fetchStations();
33        }
34
35        @override
36        Widget build(BuildContext context) {
37          return MaterialApp(
38            title: 'Pahlawan Indonesia',
39            theme: ThemeData(
40              primarySwatch: Colors.teal,
41            ), // ThemeData
42            home: Scaffold(
43              appBar: AppBar(
44                title: Text('PAHLAWAN INDONESIA'),
45              ), // AppBar
46              body: ListView.builder(
47                itemCount: stations.length,
48                itemBuilder: (context, index) {
49                  return Card(
50                    elevation: 2.0,
51                    margin: EdgeInsets.symmetric(horizontal: 10.0, vertical: 6.0),
52                    child: ListTile(
53                      contentPadding:
54                          EdgeInsets.symmetric(horizontal: 20.0, vertical: 10.0),
55                      title: Text(
56                        stations[index]['name'],
57                        style: TextStyle(fontWeight: FontWeight.bold),
58                      ), // Text
```

```dart
58                      ), // Text
59                      subtitle: Text(stations[index]['name']),
60                      trailing: Icon(Icons.keyboard_arrow_right),
61                      onTap: () {
62                        Navigator.push(
63                          context,
64                          MaterialPageRoute(
65                            builder: (context) =>
66                                StationDetailPage(station: stations[index]),
67                          ), // MaterialPageRoute
68                        );
69                      },
70                    ), // ListTile
71                  ); // Card
72                },
73              ), // ListView.builder
74            ), // Scaffold
75          ); // MaterialApp
76        }
77      }
78
79      class StationDetailPage extends StatelessWidget {
80        final Map<String, dynamic> station;
81
82        StationDetailPage({required this.station});
83
84        @override
85        Widget build(BuildContext context) {
86          return Scaffold(
87            appBar: AppBar(
88              title: Text(station['name']),
89            ), // AppBar
90            body: Padding(
```

```dart
        }, // AppBar
        body: Padding(
          padding: EdgeInsets.all(16.0),
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              Text('Nama : ${station['name']}'),
              SizedBox(height: 16.0),
              Text('Lahir : ${station['birth_day']}'),
              SizedBox(height: 16.0),
              Text('Wafat : ${station['death_year']}'),
              SizedBox(height: 16.0),
              Text('Deskripsi : ${station['description']}'),
              SizedBox(height: 16.0),
              Text('Tahun Kenaikan: ${station['ascension_year']}'),
              SizedBox(height: 16.0)
            ],
          ), // Column
        ), // Padding
      ); // Scaffold
    }
  }
```

2. Output