

**UNGUIDED
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL XIII
NETWORKING**



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PROGRAM STUDI S1 SOFTWARE ENGINEERING

FAKULTAS INFORMATIKA

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TUGAS PENDAHULUAN

1. SOAL

Buatlah Aplikasi catatan sederhana menggunakan GetX

a. Source Code

Note_controller

```
import 'package:get/get.dart';
```

```
import '../models/note_model.dart';
```

```
class NoteController extends GetxController {
```

```
  var notes = <Note>[].obs;
```

```
  var nextId = 1.obs;
```

```
  void addNote(String title, String description) {
```

```
    notes.add(Note(id: nextId.value, title: title, description: description));
```

```
    nextId++;
```

```
    Get.back();
```

```
    Get.snackbar('Berhasil', 'Catatan telah ditambahkan');
```

```
  }
```

```
  void removeNote(int id) {
```

```
    notes.removeWhere((note) => note.id == id);
```

```
    Get.snackbar('Berhasil', 'Catatan telah dihapus');
```

```
  }
```

```
}
```

Note_model

```
class Note {
```

```
  int id;
```

```
  String title;
```

```
  String description;
```

```
  Note({
```



```

        labelText: 'Judul',
        border: OutlineInputBorder(),
        prefixIcon: Icon(Icons.title),
      ),
    ),
    SizedBox(height: 16),
    TextField(
      controller: descController,
      decoration: InputDecoration(
        labelText: 'Deskripsi',
        border: OutlineInputBorder(),
        prefixIcon: Icon(Icons.description),
      ),
      maxLines: 5,
    ),
    SizedBox(height: 24),
    ElevatedButton.icon(
      onPressed: () {
        if (titleController.text.isNotEmpty &&
            descController.text.isNotEmpty) {
          noteController.addNote(
            titleController.text, descController.text);
        } else {
          Get.snackbar('Peringatan', 'Judul dan deskripsi wajib diisi');
        }
      },
      icon: Icon(Icons.save),
      label: Text('Simpan Catatan'),
      style: ElevatedButton.styleFrom(
        padding: EdgeInsets.symmetric(horizontal: 24, vertical: 12),
      ),
    ),
  ],
),

```

```

    ),
  );
}
}

```

Home_page.dart

```

import 'package:flutter/material.dart';
import 'package:get/get.dart';
import '../controllers/note_controller.dart';
import '../models/note_model.dart';

```

```

class HomePage extends StatelessWidget {
  final NoteController noteController = Get.put(NoteController());

```

```

  @override

```

```

  Widget build(BuildContext context) {

```

```

    return Scaffold(

```

```

      appBar: AppBar(

```

```

        title: Text('Catatan Saya'),

```

```

        backgroundColor: Colors.blue[700],

```

```

      ),

```

```

      body: Obx(() => noteController.notes.isEmpty

```

```

        ? Center(

```

```

          child: Text(

```

```

            'Belum ada catatan.',

```

```

            style: TextStyle(fontSize: 18, color: Colors.grey),

```

```

          ),

```

```

        )

```

```

      : ListView.builder(

```

```

        itemCount: noteController.notes.length,

```

```

        itemBuilder: (context, index) {

```

```

          Note note = noteController.notes[index];

```

```

          return Card(

```

```

            margin: EdgeInsets.symmetric(horizontal: 12, vertical: 6),

```

```

        child: ListTile(
          title: Text(
            note.title,
            style: TextStyle(fontWeight: FontWeight.bold),
          ),
          subtitle: Text(note.description),
          trailing: IconButton(
            icon: Icon(Icons.delete, color: Colors.red),
            onPressed: () => noteController.removeNote(note.id),
          ),
        ),
      );
    },
  ),
  floatingActionButton: FloatingActionButton(
    onPressed: () => Get.toNamed('/addNote'),
    child: Icon(Icons.add),
    backgroundColor: Colors.blue[700],
  ),
);
}
}

```

Main.dart

```

import 'package:flutter/material.dart';
import 'package:get/get.dart';
import 'views/home_page.dart';
import 'views/add_note_page.dart';

```

```

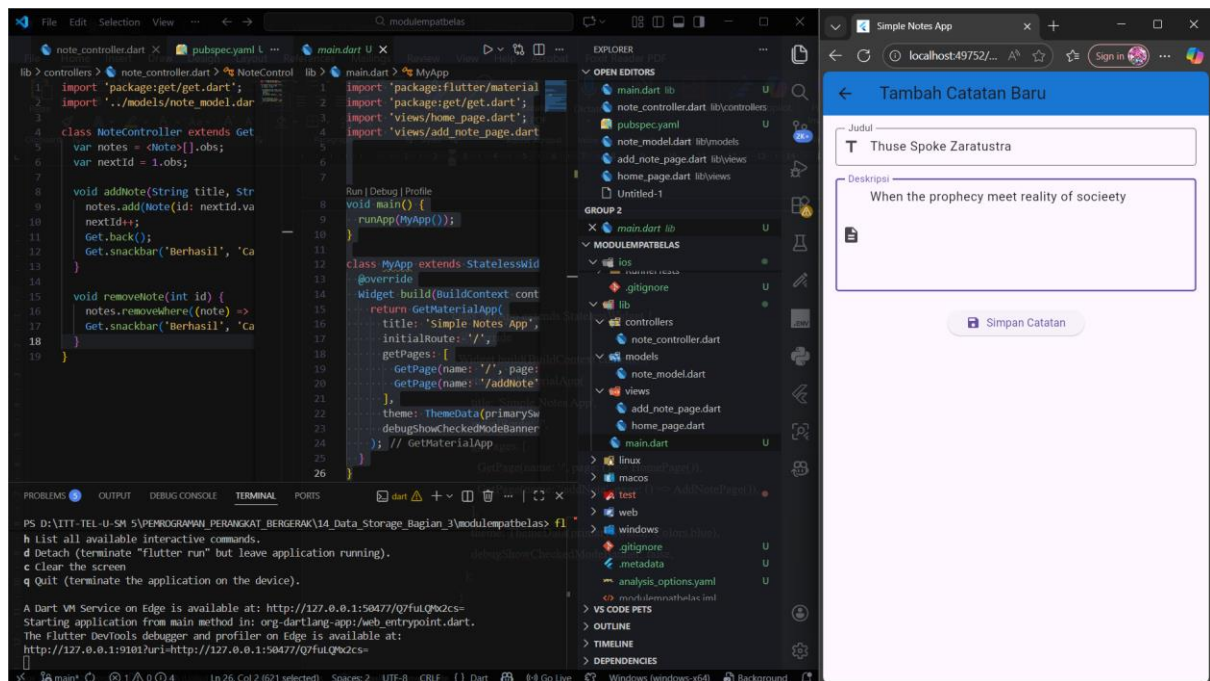
void main() {
  runApp(MyApp());
}

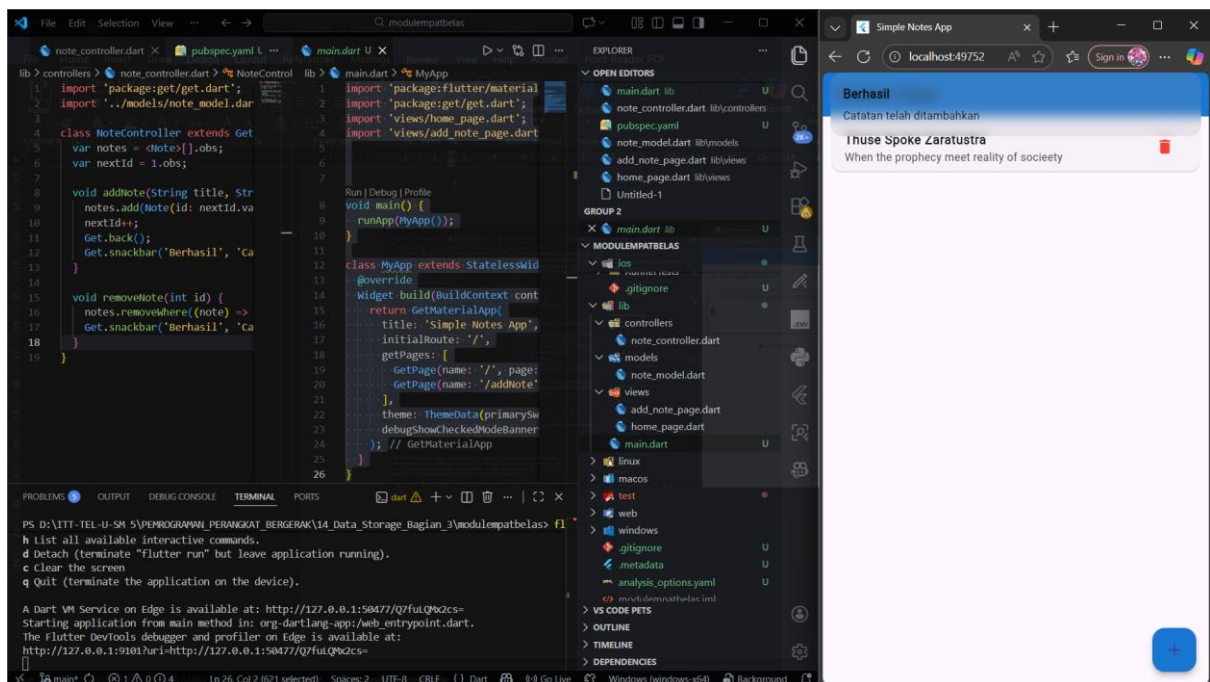
```

```

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Simple Notes App',
      initialRoute: '/',
      getPages: [
        GetPage(name: '/', page: () => HomePage()),
        GetPage(name: '/addNote', page: () => AddNotePage()),
      ],
      theme: ThemeData(primarySwatch: Colors.blue),
      debugShowCheckedModeBanner: false,
    );
  }
}

```





Aplikasi ini merupakan aplikasi catatan sederhana berbasis Flutter yang menggunakan GetX sebagai state management dan navigasi. Pengguna dapat menambahkan, menampilkan, dan menghapus catatan yang terdiri dari judul dan deskripsi. Data catatan dikelola secara reaktif melalui NoteController, sehingga perubahan data langsung memperbarui tampilan tanpa perlu setState. Halaman utama menampilkan daftar catatan, sedangkan halaman tambah catatan menyediakan form input. GetX juga dimanfaatkan untuk perpindahan halaman (routing) serta menampilkan notifikasi (snackbar) sebagai umpan balik atas aksi pengguna.