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Kelas : SE06-1

TUGAS 8 API.

teknis terkait dengan Tugas 8: Rest API

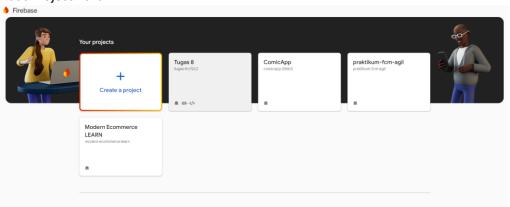
- boleh menggunakan getX (global state managemen) atau local state management (setState)
- boleh mengunakan supabase untuk transaksi non dummy data
- atau boleh pakai api dummy mocki.io atau yang sejenisnya.

Pengerjaan, Menggunakan FIREBASE

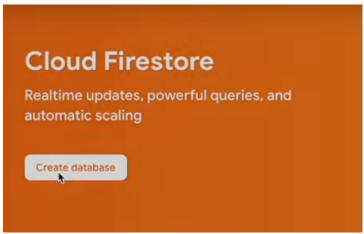
• Material Belajar : https://www.youtube.com/watch?v=iQOvD0y-xnw

1. Setup Firebase:

a. Buat Project Baru

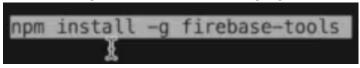


b. Firestore Buat Database



2. Setup Project Flutter

a. Install. Kemungkinan butuh bantuan dari google atau source lainnya



b. Login

firebase login

c. Activate CLI

flutter pub global activate flutterfire_cli

d. Configurasi, memilih project nya

flutterfire configure

3. Ngoding

a. File Structure



b. Pubsec.yaml

```
dependencies:
    flutter:
    sdk: flutter

# The following adds the Cupertino Icons font to your application.

# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.8
firebase_core: ^3.9.0
cloud_firestore: ^5.6.0
```

c. Service, Firestore.dart

```
. . .
               import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:flutter/material.dart';
import 'package:panasss/services/firestore.dart';
              class HomePage extends StatelessWidget {
   HomePage({super.key});
                final FirestoreService firestoreService - FirestoreService();
                 final TextEditingController textController = TextEditingController
                ## Open a dialog to add a note
void openNoteBox(BuildContext context, {String? docID}) {
showDialog(
context: context,
builder: (context) => AlertDialog(
content: TextField(
controller: textController,
decoration: const InputDecoration(hintText: Enter your note),
                      cestoreService.upda
},
child: const Text(Save'),
},
                @override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(title: const Text(Home Page')),
floatingActionButton(
onPressed: () => openNoteBox(context),
child: const Icon(Icons.add),
                      ).
body: StreamBuilder<QuerySnapshot>(
stream: firestoreService.getNotesStream(),
builder: (context, snapshot) {
if (snapshot.connectionState — ConnectionState.waiting) {
return const Center(child: CircularProgressIndicator());
                        if (snapshot.hasError) {
  return const Center(child: Text('An error occurred.'));
                        if (!snapshot.hasData || snapshot.data!.docs.isEmpty) {
return const Center(child: Text('No notes yet'));
                         return ListView.builder(
itemCount: notesList.length,
itemBuilder: (context, index) {
DocumentSnapshot document - notesList[index];
String docID - document.id;
                                Map<String, dynamic> note –
document.data() as Map<String, dynamic>;
String noteText = note['note'] ?? ";
                                // Display as a list tile
return ListTile,
title: Text(noteText),
trailing: SizedBox(
width: 96, Adpus the width as needed
child: Row(
mainAxisAlignment: MainAxisAlignment.center,
children: [
leonButton(
onPressed: () >> openNoteBox(context, docID: docID),
icon: const Icon(Icons.settings),
),
                                       ),
IconButton(
onPressed: () -> firestoreService.deleteNote(docID),
icon: const Icon(Icons.delete),
```

e. Main.dart

```
You, 9 hours ago | 1 author (You)
import 'package:firebase_core/firebase_core.dart';
import 'package:flutter/material.dart';
import 'package:panasss/firebase_options.dart';
import 'package:panasss/pages/home_page.dart';

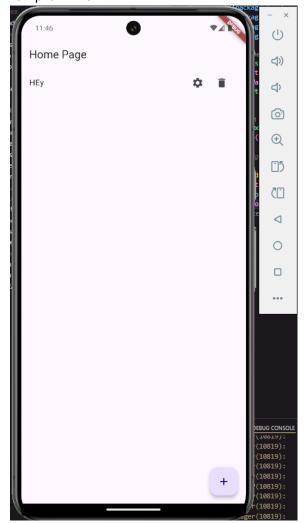
Run | Debug | Profile
void main() async {
    WidgetsFlutterBinding.ensureInitialized();
    await Firebase.initializeApp(options: DefaultFirebaseOptions.currentPlatform);
    runApp(const MyApp());
}

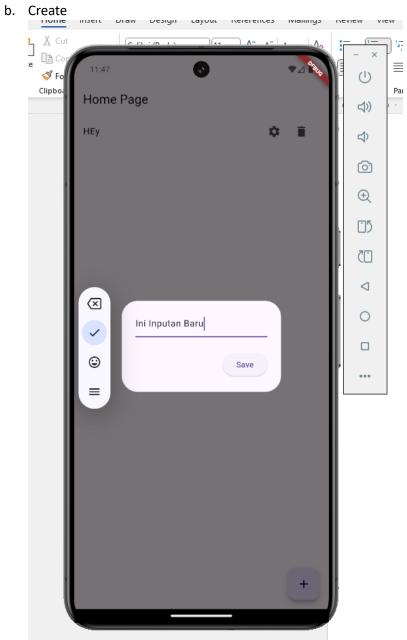
You, 9 hours ago | 1 author (You)
class MyApp extends StatelessWidget {
    const MyApp({super.key});

// This widget is the root of your application.
@override
Widget build(BuildContext context) {
    return MaterialApp(
    | debugShowCheckedModeBanner: true,
    | home: HomePage(),
    ); // MaterialApp
}
```

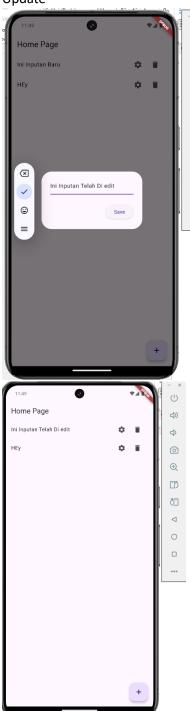
4. Output

a. Tampilan Awal

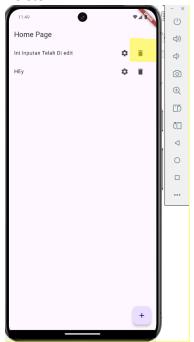




c. Update



d. Delete



5. Firestore data.

a.

