#### RESPONSI 1 PRAKTIKUM PEMROGRAMAN MOBILE

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Shift F

#### A. Database

Ketentuan:

Nama Tabel: riwayat\_alergi

Kolom 1: id (int, PK, increment)

Kolom 2 : allergen (String)

Kolom 3 : reaction (String)

Kolom 4 : severity scale (Integer)

#### Screenshoot Database:

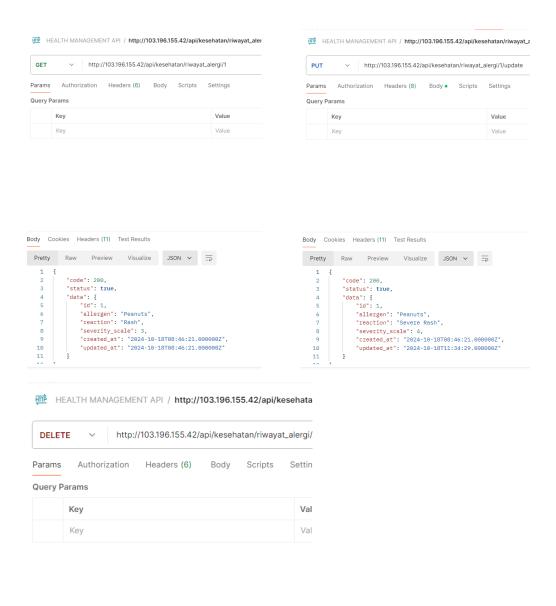


#### **B. POSTMAN**

Untuk postman, saya membuat postman untuk login, registrasi dan riwayat alergi









## C. Source Code

Saya membuat beberapa folder di dalam folder lib yakni folder models, services, screens dan widgets.

Untuk penggunaan fonts calibri saya meletakkannya di folder assets.

Folder models yakni file Riwayat alergi.dart:

```
🕶 riwayat_alergi.dart 🏻 🗨
lib > models > 🕶 riwayat_alergi.dart > ધ RiwayatAlergi > 🕅 RiwayatAlergi
       class RiwayatAlergi {
         final int? id; // ID bisa null saat menambah data baru
         final String allergen;
         final String reaction;
         final int severityScale;
         RiwayatAlergi({
           this.id,
           required this.allergen,
           required this.reaction,
           required this.severityScale,
         });
         factory RiwayatAlergi.fromJson(Map<String, dynamic> json) {
           return RiwayatAlergi(
             id: json['id'],
             allergen: json['allergen'],
            reaction: json['reaction'],
             severityScale: json['severity scale'],
         Map<String, dynamic> toJson() {
           return {
             'id': id,
             'allergen': allergen,
             'reaction': reaction,
             'severity_scale': severityScale,
```

Folder Screens

1. alergi detail screen.dart

```
🕶 riwayat_alergi.dart 🌘 💝 alergi_detail_screen.dart 🗙
       import 'package:flutter/material.dart';
import '../models/riwayat_alergi.dart';
       class AlergiDetailScreen extends StatelessWidget {
          Widget build(BuildContext context) {
             final RiwayatAlergi alergi = ModalRoute.of(context)!.settings.arguments as Riway
             return Scaffold(
               appBar: AppBar(
                  title: Text('Detail Alergi'),
               backgroundColor: ■Colors.pink[100],
), // AppBar
               body: Padding(
  padding: const EdgeInsets.all(16.0),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
                      Text('Allergen'),
SizedBox(height: 10),
                       Text('Reaction'),
                      SizedBox(height: 10),
                       Text('Severity Scale'),
                       SizedBox(height: 20),
ElevatedButton(
                           Navigator.pushNamed(context, '/edit', arguments: alergi);
                         child: Text('Ubah Data'),
                         style: ElevatedButton.styleFrom(backgroundColor: □Colors.pink[100]),
               ), // Padding
```

#### **Screenshoot hasil:**

```
    ← → ♂ ① localhost:64319

TypeError. null: type 'Null' is not a subtype of type 'RiwayatAlergi' See also: https://docs.flutter.dev/testing/errors
```

2. alergi\_list\_screen

```
import 'package:flutter/material.dart';
import '../services/alergi_service.dart';
import '../models/riwayat_alergi.dart';
class AlergiListScreen extends StatefulWidget {
   AlergiListScreenState createState() => AlergiListScreenState();
class _AlergiListScreenState extends State<AlergiListScreen> {
  late Future<List<RiwayatAlergi>> alergiList;
    super.initState();
    alergiList = AlergiService().getRiwayatAlergi();
  @override
Widget build(BuildContext context) {
    return Scaffold(
       appBar: AppBar(

title: Text('Riwayat Alergi'),

backgroundColor: ■Colors.pink[100],
       body: FutureBuilder<List<RiwayatAlergi>>(
  future: alergiList,
  builder: (context, snapshot) {
    if (snapshot.hasData) {
               return ListView.builder(
                  itemCount: snapshot.data!.length,
itemBuilder: (context, index) {
  RiwayatAlergi alergi = snapshot.data![index];
  return ListTile(
                       title: Text(alergi.allergen ),
subtitle: Text('Reaksi: ${alergi.reaction}, Skala: ${alergi.severityScale}'),
                        Navigator.pushNamed(context, '/detail', arguments: alergi);
reens > 🕶 alergi_list_screen.dart >
class _AlergiListScreenState extends State<AlergiListScreen> {
   Widget build(Bontext context) {
    itemCount: snapshot.data!.length,
    itemBuilder: (context, index) {
        RiwayatAlergi alergi = snapshot.data![index];
}
                      return ListTile(
                        title: Text(alergi.allergen ),
subtitle: Text('Reaksi: ${alergi.reaction}, Skala: ${alergi.severityScale}'),
                        onTap: () {
                          Navigator.pushNamed(context, '/detail', arguments: alergi);
              } else if (snapshot.hasError) {
  return Center(child: Text('Error: ${snapshot.error}'));
              return Center(child: CircularProgressIndicator());
         floatingActionButton: FloatingActionButton(
  onPressed: () {
             Navigator.pushNamed(context, '/edit', arguments: null);
          },
child: Icon(Icons.add),
backgroundColor: ■Colors.pink[100],
      ), // FloatingActionButton
); // Scaffold
```



3. alergi edit screen.dart

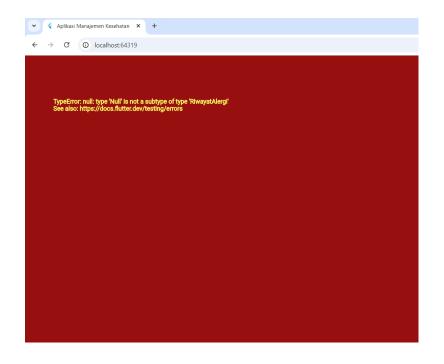
```
🕶 alergi_edit_screen.dart 🗙
import 'package:flutter/material.dart';
import '../models/riwayat_alergi.dart';
import '../services/alergi_service.dart';
class AlergiEditScreen extends StatefulWidget {
   _AlergiEditScreenState createState() => _AlergiEditScreenState();
class \_AlergiEditScreenState extends State<AlergiEditScreen> {
  final _allergenController = TextEditingController();
final _reactionController = TextEditingController();
  final _severityScaleController = TextEditingController();
  void _save(RiwayatAlergi? alergi) {
  if (alergi == null) {
    // Tambah data
                                                                                String get text
                                                                                Type: String
       AlergiService().createRiwayatAlergi(
         RiwayatAlergi(

allergen: _allergenController.text,

reaction: _reactionController.text,
                                                                                package:flutter/src/widgets/editable_text.dart
                                                                                The current string the user is editing.
       AlergiService().updateRiwayatAlergi(
         RiwayatAlergi(
            allergen: _allergenController.text,
reaction: _reactionController.text,
severityScale: int.parse(_severityScaleController.text),
     Navigator.pop(context);
```

```
{\tt class\_AlergiEditScreenState\ extends\ State \verb|<| AlergiEditScreen>|} \ \{
  Widget build(BuildContext context) {
         _allergenController.text = alergi.allergen;
_reactionController.text = alergi.reaction;
_severityScaleController.text = alergi.severityScale.toString();
      return Scaffold(
         appBar: AppBar(
           title: Text(alergi == null ? 'Tambah Alergi' : 'Ubah Alergi'),
backgroundColor: ■Colors.pink[100],
         body: Padding(
            padding: const EdgeInsets.all(16.0),
            child: Column(
                  TextField(
                    controller: _allergenController,
decoration: InputDecoration(labelText: 'Allergen'),
                  TextField(
                    decoration: InputDecoration(labelText: 'Reaction'),
                  TextField(
                  controller: _severityScaleController,
  decoration: InputDecoration(labelText: 'Severity Scale'),
  keyboardType: TextInputType.number,
), // TextField
                  SizedBox(height: 20),
                  ElevatedButton(
                    onPressed: () => _save(alergi),
child: Text(alergi == null ? 'Tambah' : 'Ubah'),
style: ElevatedButton.styleFrom(backgroundColor: ■Colors.pink[100]),
```

## **Screenshoot hasil:**



## 4. login\_screen.dart

```
import 'package:flutter/material.dart';
class LoginScreen extends StatefulWidget {
  _LoginScreenState createState() => _LoginScreenState();
class _LoginScreenState extends State<LoginScreen> {
  final emailController = TextEditingController();
  final passwordController = TextEditingController();
  Widget build(BuildContext context) {
    return Scaffold(
     appBar: AppBar(
  title: Text('Login'),
       backgroundColor: ■Colors.pink[100],
      ), // AppBar
      body: Padding(
       padding: const EdgeInsets.all(16.0),
        child: Column(
            TextField(
             controller: _emailController,
             decoration: InputDecoration(labelText: 'Email'),
            TextField(
              decoration: InputDecoration(labelText: 'Password'),
            SizedBox(height: 20),
            ElevatedButton(
```

# **Screenshoot hasil:**



## 5. register\_screen.dart

```
🕶 riwayat_alergi.dart 🌘 💛 register_screen.dart 🗙
lib > screens > ■ register_screen.dart > ...
        import 'package:flutter/material.dart';
        class RegisterScreen extends StatefulWidget {
            _RegisterScreenState createState() => _RegisterScreenState();
        class \_RegisterScreenState extends State<RegisterScreen> {
          final _emailController = TextEditingController();
final _passwordController = TextEditingController();
              Navigator.pushNamed(context, '/login');
           Widget build(BuildContext context) {
             return Scaffold(
                appBar: AppBar(
title: Text('Registrasi'),
                backgroundColor: ■Colors.pink[100],
), // AppBar
body: Padding(
                  padding: const EdgeInsets.all(16.0),
child: Column(
                    children: [

| TextField(
                         controller: _emailController,
decoration: InputDecoration(labelText: 'Email'),
                          TextField(
                          controller: _passwordController,
  decoration: InputDecoration(labelText: 'Password'),
  obscureText: true,
                        ), // TextField
SizedBox(height: 20),
ElevatedButton(
```

Folder services

# 1. alergi\_service.dart

```
| Import | Service | Import | Service | Import | Service | Service | Import | Service | Import | Service | Import | Service | Service | Import |
```

# Folder widgets

1. custom\_app\_bar.dart

2. custom elevated button.dart

#### Main.dart