## GUIDED PRAKTIKUM PEMROGRAMAN PERANGKAT BERGERAK MODUL XI

**DATA STORAGE BAGIAN 2** 



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# PROGRAM STUDI S1 SOFTWARE ENGINEERING FAKULTAS INFORMATIKA TELKOM UNIVERSITY PURWOKERTO

#### **GUIDED**

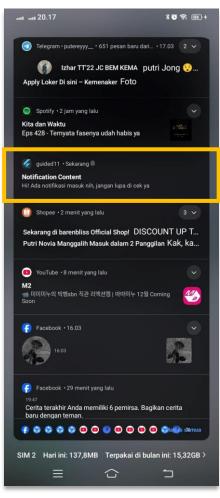
1. Source code main.dart

```
1 import 'package:firebase_core/firebase_core.dart';
 2 import 'package:firebase_messaging/firebase_messaging.dart';
    import 'package:flutter_local_notifications/flutter_local_notifications.dart';
import 'package:guided/notification_screen.dart';
7 String? token;
8 Future<void> _firebaseMessagingBackgroundHandler(RemoteMessage message) async {
     await Firebase.initializeApp();
      print('Handling a background message: ${message.messageId}');
13 const AndroidNotificationChannel channel = AndroidNotificationChannel(
      'high_importance_channel', // ID Channel
      description:
      importance: Importance.high, // Prioritas
21 void main() async {
      WidgetsFlutterBinding.ensureInitialized();
      await Firebase.initializeApp();
      FirebaseMessaging.onBackgroundMessage(_firebaseMessagingBackgroundHandler);
     await FlutterLocalNotificationsPlugin()
          .resolvePlatformSpecificImplementation
              AndroidFlutterLocalNotificationsPlugin>()
          ?.createNotificationChannel(channel);
      \verb|await Firebase Messaging.instance.setForeground Notification Presentation Options (
       alert: true,
       badge: true,
        sound: true,
      runApp(const MyApp());
38 class MyApp extends StatelessWidget {
      const MyApp({super.key});
      @override
      Widget build(BuildContext context) {
       return MaterialApp(
          title: 'Flutter Demo',
          theme: ThemeData(
            {\tt colorScheme: ColorScheme.from Seed (seed Color: Colors.deep Purple),}
            useMaterial3: true,
          home: const NotificationScreen(),
```

```
import 'package:firebase_messaging/firebase_messaging.dart';
import 'package:flutter/material.dart';
import 'package:flutter_local_notifications/flutter_local_notifications.dart';
import 'package:guided/main.dart';
    lass NotificationScreen extends StatefulWidget {
  const NotificationScreen({super.key});
    State<NotificationScreen> createState() => _NotificationScreenState();
class _NotificationScreenState extends State<NotificationScreen> {
    @override
  void initState() {
        super.initState();
// Membuat pengatu
         // Membuat pengaturan inisialisasi notifikasi untuk Android
var initializationSettingsAndroid =
                 const AndroidInitializationSettings('@mipmap/ic launcher');
         const AndroidinitializationSettings( @mlpmap/ic_launcher );
var initializationSettings =
    InitializationSettings(android: initializationSettingsAndroid);
         // Mendengarkan pesan saat aplikasi aktif
FirebaseMessaging.onMessage.listen((RemoteMessage message) {
            RemoteNotification? notification = message.notification;
AndroidNotification? android = message.notification?.android;
           // Jika notifikasi tersedia, tampilkan menggunakan notifikasi lok-
if (notification != null && android != null) {
  FlutterLocalNotificationsPlugin().show(
   notification.hashCode, // ID notifikasi (hashCode untuk unik)
   notification.title, // Judul notifikasi
  notification.body, // Isi notifikasi
  NotificationDetails(
                         android: AndroidNotificationDetails(
   channel.id,
                            channel.name,
                            channelDescription: channel.description, color: const Color.fromARGB(255, 125, 196, 255), icon: "@mipmap/ic_launcher",
         // Menangani aksi ketika notifikasi dibuka
firebaseMessaging.onMessageOpenedApp.listen((RemoteMessage message) {
   RemoteNotification? notification = message.notification;
   AndroidNotification? android = message.notification?.android;
           // Jika notifikasi tersedia, tampilkan dialog
if (notification != null && android != null) {
                content: SingleChildScrollView(
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [Text(notification.body ?? "")], // Isi dialog
 // Metode untuk mendapatkan token FCM
void getToken() async {
  token = await FirebaseMessaging.instance
    .getToken(); // Mendapatkan token FCM perangkat
  print('FCM Token: $token'); // Menampilkan token di log
     @override
    Widget build(BuildContext context) {
  return Scaffold(
           appBar: AppBar(
   title: const Text("Notification Screen"),
   backgroundColor: const Color.fromARGB(255, 222, 135, 240),
                centerTitle: true,
                ,
ody: const Center(
child: Text("Mendapatkan Notifikasi"),
```

3. Output Tampilan awal dan Tampilan notifikasi masuk





Output Tampilan notifikasi ketika di buka

