

**TUGAS GUIDED
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL VII
INTERAKSI PENGGUNA**



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PROGRAM STUDI S1 SOFTWARE ENGINEERING

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Main.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:flutter_local_notifications/flutter_local_notifications.dart';
3
4 void main() => runApp(MaterialApp(
5   theme: ThemeData(
6     appBarTheme: AppBarTheme(
7       color: Colors.amber,
8     ),
9   ),
10   home: MyApp(),
11   debugShowCheckedModeBanner: false,
12 ));
13
14 class MyApp extends StatefulWidget {
15   @override
16   _MyAppState createState() => _MyAppState();
17 }
18
19 class _MyAppState extends State<MyApp> {
20   FlutterLocalNotificationsPlugin flutterLocalNotificationsPlugin =
21     FlutterLocalNotificationsPlugin();
22
23   @override
24   void initState() {
25     super.initState();
26
27     // Pengaturan untuk Android
28     var initializationSettingsAndroid =
29       AndroidInitializationSettings('flutter_devs'); // Ganti dengan ikon Anda
30
31     var initializationSettings = InitializationSettings(
32       android: initializationSettingsAndroid,
33     );
34
35     // Inisialisasi Flutter Local Notifications
36     flutterLocalNotificationsPlugin.initialize(initializationSettings);
37   }
38
39   // Fungsi untuk menampilkan notifikasi
40   showNotification() async {
41     var android = AndroidNotificationDetails(
42       'id', // ID Channel
43       'channel', // Nama Channel
44       channelDescription: 'description', // Deskripsi Channel
45       priority: Priority.high, // Prioritas tinggi
46       importance: Importance.max, // Pentingnya notifikasi
47       ticker: 'ticker', // Ticker untuk notifikasi
48     );
49     var platform = NotificationDetails(android: android);
50
51     // Menampilkan notifikasi
52     await flutterLocalNotificationsPlugin.show(
53       0, // ID notifikasi
54       'Flutter devs', // Judul notifikasi
55       'Flutter Local Notification Demo', // Isi notifikasi
56       platform, // Detil platform
57       payload: 'Welcome to the Local Notification demo!', // Payload tambahan
58     );
59   }
60
61   @override
62   Widget build(BuildContext context) {
63     return Scaffold(
64       appBar: AppBar(
65         backgroundColor: Colors.amber,
66         title: Text('Flutter notification demo'),
67       ),
68       body: Center(
69         child: Column(
70           mainAxisAlignment: MainAxisAlignment.center,
71           children: <Widget>[
72             ElevatedButton(
73               onPressed: showNotification,
74               child: Text('Show Notification'),
75               style:
76                 ElevatedButton.styleFrom(backgroundColor: Colors.blueAccent),
77             ),
78           ],
79         ),
80       ),
81     );
82   }
83 }
```

Android

```
1 <manifest xmlns:android="http://schemas.android.com/apk/res/android">
2   <application
3     android:label="praktikum_2"
4     android:name="${applicationName}"
5     android:icon="@mipmap/ic_launcher">
6     <activity
7       android:name=".MainActivity"
8       android:exported="true"
9       android:launchMode="singleTop"
10      android:taskAffinity=""
11      android:theme="@style/LaunchTheme"
12      android:configChanges="orientation|keyboardHidden|keyboard|screenSize|smallestScreenSize|locale|layoutDirection|fontScale|screenLayout|density|uiMode"
13      android:hardwareAccelerated="true"
14      android:windowSoftInputMode="adjustResize">
15      <!-- Specifies an Android theme to apply to this Activity as soon as
16           the Android process has started. This theme is visible to the user
17           while the Flutter UI initializes. After that, this theme continues
18           to determine the Window background behind the Flutter UI. -->
19      <meta-data
20        android:name="io.flutter.embedding.android.NormalTheme"
21        android:resource="@style/NormalTheme"
22      />
23      <intent-filter>
24        <action android:name="android.intent.action.MAIN"/>
25        <category android:name="android.intent.category.LAUNCHER"/>
26      </intent-filter>
27    </activity>
28    <!-- Don't delete the meta-data below.
29         This is used by the Flutter tool to generate GeneratedPluginRegistrant.java -->
30    <meta-data
31      android:name="FlutterEmbedding"
32      android:value="2" />
33  </application>
34
35  <!-- Izin untuk notifikasi dan getaran -->
36  <uses-permission android:name="android.permission.VIBRATE"/>
37  <uses-permission android:name="android.permission.INTERNET"/>
38
39  <!-- Required to query activities that can process text, see:
40       https://developer.android.com/training/package-visibility and
41       https://developer.android.com/reference/android/content/Intent#ACTION_PROCESS_TEXT. -->
42  <queries>
43    <intent>
44      <action android:name="android.intent.action.PROCESS_TEXT"/>
45      <data android:mimeType="text/plain"/>
46    </intent>
47  </queries>
48 </manifest>
49
50
```

yaml

```
1 name: main.dart
2 description: "A new Flutter project."
3 publish_to: 'none' # Remove this line if you wish to publish to pub.dev
4
5 version: 1.0.0+1
6
7 environment:
8   sdk: ^3.5.3
9
10 dependencies:
11   flutter:
12     sdk: flutter
13   flutter_local_notifications: ^12.0.4
14
15
16 dev_dependencies:
17   flutter_test:
18     sdk: flutter
19   flutter_lints: ^4.0.0
20
21 flutter:
22   uses-material-design: true
23
24
```

Output :

