LAPORAN TUGAS GUIDED PEMROGRAMAN PERANGKAT BERGERAK MODUL 7

NAVIGASI DAN NOTIFIKASI



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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK

FAKULTAS INFORMATIKA

TELKOM UNIVERSITY PURWOKERTO

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GUIDED DAN UNGUIDED

A. Product.dart

```
• • •
class Product {
   final int id;
  final String nama;
final double harga;
final String gambarUrl;
   final String deskripsi;
     required this.id, required this.nama,
      required this.harga,
     required this.gambarUrl, required this.deskripsi,
   });
   // Method untuk mengkonversi JSON => object product
factory Product.fromJson(Map<String, dynamic> json)
{ return Product(
   id: json['id'],
         nama: json['nama'],
harga: json['harga'],
         gambarUrl: json['gambarUrl'],
deskripsi: json['deskripsi'],
   Map<String, dynamic> toJson() {
     return {
  'id': id,
         'harga': harga,
         'gambarUrl': gambarUrl,
'deskripsi': deskripsi,
```

B. detailpage.dart

```
import 'package:flutter/material.dart';
  import 'package:praktikum_7/models/product.dart';
import 'package:praktikum_7/systems/local_notifications.dart';
  class DetailPage extends StatelessWidget {
  const DetailPage({super.key, required this.product});
     final Product product;
     @override
Widget build(BuildContext context) {
        return Scaffold(
                pBar: AppBar(
title: Text('Detail Page'),
               centerTitle: true,
backgroundColor: Color(0xFF952491), // Warna header
          ),
body: Center(
child: Column(
mainAxisAlign
                                       ment: MainAxisAlignment.center,
                     Card(
                       ard(
margin: EdgeInsets.all(16.0),
elevation: 4,
color: Color(0xFF650000), // Background Card
shape: RoundedRectangleBorder(
borderRadius: BorderRadius.circular(10), // Sudut tumpul
                         ),
child: Padding(
padding: const
                           padding: const EdgeInsets.all(16.0),
child: Column(
                                                  : MainAxisSize.min,
                                 Stack,

Stack,

alignment: Alignment.center,

children: [
                                        Container(
                                           width: double.infinity,
height: 150, // Sesuaikan tinggi
color: Color(0xFFFEF250), // Background untuk gambar
                                        Image.network(
                                          product.gambarUrl,
                                            width: 150, // Sesuaikan ukuran
height: 150, // Sesuaikan ukuran
fit: BoxFit.cover, // Untuk menjaga proporsi gambar
                                  ),
SizedBox(height: 10),
Text(
                                     product.nama,
                                       style: TextStyle(
fontSize: 24,
                                     color: Color(0xFFE6AF2E)), // Teks judul produk
textAlign: TextAlign.center,
                                  ),
Text(
                                     'Rp${product.harga}',
style: TextStyle(
fontSize: 20, color: Color(0xFFFEF250)), // Teks
  harga
                                  ),
Padding(
                                     padding: const EdgeInsets.all(8.0),
  child: Text(
                                        product.deskripsi,
                                          tyle: TextStyle(
color: Color(0xFFE7EB90)), // Teks deskripsi produk
                     ElevatedButton(
                           nPressed: () {
LocalNotifications.showSimpleNotification(
                              title: product.nama,
body: 'Harga: Rp${product.harga}\n${product.deskripsi}',
payload: 'Detail untuk ${product.nama}',
                        }, '
style: ElevatedButton.styleFrom(
   backgroundColor: Color(0xFF2274A5), // Background tombol
                       Dates; )
),
child: Text(
'Tampilkan Notifikasi',
style: TextStyle(color: Color(0xFFFADF63)), // Teks pada tombol
```

C. mypage.dart

```
• • •
   import 'package:flutter/material.dart';
import 'package:praktikum_7/models/product.dart';
import 'package:praktikum_7/pages/detailpage.dart';
  class MyPage extends StatelessWidget {
  MyPage({super.key});
      final List<Product> products = [
  Product(
    id: l,
    nama: 'Mouse Gaming',
    harga: 300000.00,
    gambarUrl:
         desk.,
Product(
id: 2,
nama: 'Keyboard Kantor',
harga: 150000.00,
gambarUrl:
                 deskripsi: 'Untuk kebutuhan profesional dengan harga terjangkau'),
          deskrips: 'Untuk kebutuhan profesional dengan harga terjangkau'),
Product(
id: 3,
nama: 'Headset Gaming',
harga: 249000.00,
gambarUrl:
'https://m.media-amazon.com/images/I/61CGHv6kmWL.AC_UF894,1000_QL80.jpg'
deskripsi: 'Sensasi nyaman dengan suara jernih'),
Product(
         deskrips: 'Penyl
Product(
   id: 5,
   nama: 'TWS M10',
   harga: 45000.00,
   gambarUrl:
      @override
Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: Text('Class Model'),
    centerTitle: true,
   backgroundColor: Color(@xFF952491), // Warna header
              ),
body: ListView.builder(
  itemCount: products.length,
  itemBuilder: (context, index) {
  final product = products[index];
  return Container(
                        product.gambarUrl,
width: 70,
height: 70,
                            ),
subtitle: Column(
crossAxisAlignment.start,
children: [
Toxt(
                                   Text(

'Rp${product.harga}',
style: TextStyle(color: Color(0xFFFEF250)), // Teks harga
),
Text(
                                      product.deskripsi,
style: TextStyle(
color: Color(0xFFE7EB90)), // Teks deskripsi produk
                                map: () {
  Navigator.push(
    context,
    MaterialPageRoute(
    builder: (_) => DetailPage(product: product),
    ),
}
) );
),
),
),
),
),
```

D. localnotification.dart

```
'package:flutter local notifications/flutter local notifications.dart';
class LocalNotifications {
  static final FlutterLocalNotificationsPlugin
      _flutterLocalNotificationsPlugin = FlutterLocalNotificationsPlugin();
  static Future init() async {
    AndroidInitializationSettings initializationSettingsAndroid =
        AndroidInitializationSettings('@mipmap/ic_launcher');
    final DarwinInitializationSettings initializationSettingsDarwin =
        DarwinInitializationSettings(
      onDidReceiveLocalNotification: (id, title, body, payload) => null,
    final LinuxInitializationSettings initializationSettingsLinux =
        LinuxInitializationSettings(defaultActionName: 'Open notification');
    final InitializationSettings initializationSettings =
        InitializationSettings(
            android: initializationSettingsAndroid,
            iOS: initializationSettingsDarwin,
            linux: initializationSettingsLinux);
    _flutterLocalNotificationsPlugin.initialize(
      initializationSettings,
      onDidReceiveNotificationResponse: (details) => null,
    );
  static Future showSimpleNotification({
    required String title,
    required String body,
    required String payload,
    AndroidNotificationDetails androidNotificationDetails =
        AndroidNotificationDetails(
      'your_channel_id', // Ganti dengan ID channel Anda
'your_channel_name', // Ganti dengan nama channel Anda
      channelDescription: 'your_channel_description', // Deskripsi channel
      importance: Importance.max,
      priority: Priority.high,
      styleInformation: BigTextStyleInformation(
        body, // Teks yang ditampilkan saat diperluas
        contentTitle: title, // Judul notifikasi
        summaryText: 'Tap to see more', // Teks ringkasan
      ),
    NotificationDetails notificationDetails =
        NotificationDetails(android: androidNotificationDetails);
    await _flutterLocalNotificationsPlugin.show(
      title,
      body,
      notificationDetails,
      payload: payload,
    );
 }
```

E. Main.dart

```
import 'package:flutter/material.dart';
import 'package:praktikum7/pages/mypage.dart';
import 'package:praktikum7/systems/local_notifications.dart';
void main() async {
 WidgetsFlutterBinding.ensureInitialized();
  await LocalNotifications.init();
  runApp(const MyApp());
class MyApp extends StatelessWidget {
  const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        primaryColor: Color(0xFF952491), // Warna utama aplikasi
        colorScheme: ColorScheme.fromSeed(seedColor:
Color(0x@5@Mater)al3: true,
      ),
      home: MyPage(),
    );
}
```

F. Build.gradle(Android)

```
allprojects {
    repositories {
        google()
        mavenCentral()
    }
}

rootProject.buildDir = "../build"
subprojects {
    project.buildDir = "${rootProject.buildDir}/${project.name}"
}
subprojects {
    project.evaluationDependsOn(":app")
}

tasks.register("clean", Delete) {
    delete rootProject.buildDir
}

buildscript {
    repositories {
        google()
        mavenCentral()
    }
    dependencies {
        classpath 'com.android.tools.build:gradle:7.3.1'
        classpath 'com.google.gms:google-services:4.3.10' // Plugin Google jika
dipe}lukan
}
```

G. Build.gradle(APP)

```
. . .
    id "com.android.application"
    id "kotlin-android"
    id "dev.flutter.flutter-gradle-plugin"
    namespace = "com.example.praktikum7"
    defaultConfig {
        coreLibraryDesugaringEnabled true
        sourceCompatibility = JavaVersion.VERSION_1_8
        targetCompatibility = JavaVersion.VERSION_1_8
        jvmTarget = JavaVersion.VERSION_1_8
    defaultConfig {
        applicationId = "com.example.praktikum_7"
        targetSdk = flutter.targetSdkVersion
    buildTypes {
dependencies {
 coreLibraryDesugaring 'com.android.tools:desugar_jdk_libs:1.2.2'
```

H. Androidmanifest.xml

```
. .
<manifest xmlns:android="http://schemas.android.com/apk/res/android">
    <uses-permission android:name="android.permission.VIBRATE" />
    <uses-permission android:name="android.permission.RECEIVE_BOOT_COMPLETED"/>
       android: label="praktikum_7"
        android:name="${applicationName}"
       android:icon="@mipmap/ic_launcher">
            android:exported="true"
            android:launchMode="singleTop"
            android:theme="@style/LaunchTheme"
android:configChanges="orientation|keyboardHidden|keyboard|screenSize|smallestScreenSize|locale|layout
Direction|fontScale|screenLayout|density|uiMode"
            android:hardwareAccelerated="true"
            android:windowSoftInputMode="adjustResize">
            <!-- Specifies an Android theme to apply to this Activity as soon as
                 the Android process has started. This theme is visible to the user
                 while the Flutter UI initializes. After that, this theme continues
                 to determine the Window background behind the Flutter UI.
            <meta-data
              android:name="io.flutter.embedding.android.NormalTheme"
              android:resource="@style/NormalTheme"
               <action android:name="android.intent.action.MAIN"/>
               <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
       </activity>
        <!-- Don't delete the meta-data below.
             This is used by the Flutter tool to generate GeneratedPluginRegistrant.java -->
            android:name="flutterEmbedding"
            android:value="2" />
    </application>
    <!-- Required to query activities that can process text, see:
         https://developer.android.com/training/package-visibility and
         https://developer.android.com/reference/android/content/Intent#ACTION_PROCESS_TEXT.
         In particular, this is used by the Flutter engine in io.flutter.plugin.text.ProcessTextPlugin.
    <queries>
            <action android:name="android.intent.action.PROCESS_TEXT"/>
            <data android:mimeType="text/plain"/>
       </intent>
    </queries>
</manifest>
```

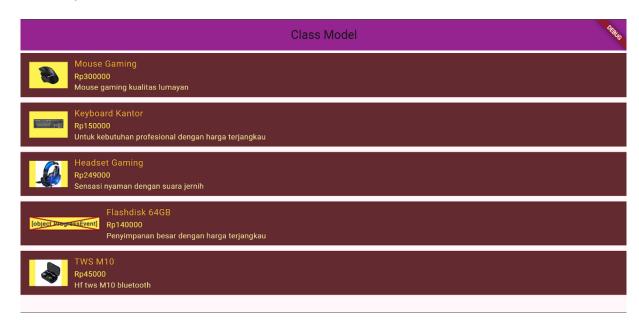
I. Pubspec.yaml

```
. . .
name: praktikum7
description: "A new Flutter project."
publish_to: 'none' # Remove this line if you wish to publish to pub.dev
version: 1.0.0+1
    sdk: ^3.5.3
   Dependencies specify other packages that your package needs in order to work. To automatically upgrade your package dependencies to the latest versions consider running 'flutter pub upgrade --major-versions'. Alternatively, dependencies can be manually updated by changing the version numbers below to the latest version available on pub.dev. To see which dependencies have newer versions available, run 'flutter pub outdated'.
      flutter:
sdk: flutter
    # Penambahan package flutter_local_notifications flutter_local_notifications: ^17.2.4
    flutter_timezone: ^3.0.1

# Penambahan package rxdart: ^0.28.0

rxdart: ^0.28.0
      flutter_test:
sdk: flutter
     # The "flutter_lints" package below contains a set of recommended lints to # encourage good coding practices. The lint set provided by the package is # activated in the `analysis_options.yaml` file located at the root of your # package. See that file for information about deactivating specific lint # rules and activating additional ones.
    uses-material-design: true
```

J. Output

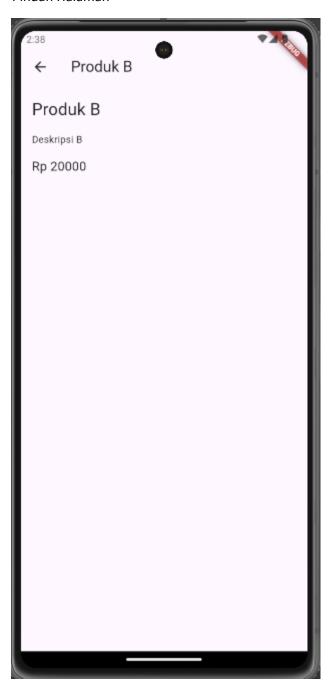


K. UNGUIDED

- Halaman utama



$L.\;\;$ Pindah Halaman



Deskripsi:

Program ini adalah aplikasi e-commerce sederhana yang dikembangkan menggunakan Flutter. Aplikasi ini menampilkan daftar produk, lengkap dengan nama dan harga, dalam tampilan utama. Setiap produk ditampilkan dalam bentuk kartu yang dapat diklik untuk melihat detail produk lebih lanjut. Pada halaman detail, pengguna dapat melihat deskripsi dan harga produk secara lengkap. Aplikasi ini menggunakan struktur MVC sederhana, dengan model Product untuk menyimpan informasi produk. Dengan navigasi yang mudah, pengguna dapat berpindah dari daftar produk ke halaman detail dengan lancar, memberikan pengalaman pengguna yang intuitif.