

LAPORAN GUIDED & UNGUIDED
PEMROGRAMAN PERANGKAT BERGERAK
MODUL VI
INTERAKSI PENGGUNA



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PROGRAM STUDI S1 REKAYASA PERANGKAT LUNAK
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
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GUIDED

Souce Code main.dart:

```
import 'package:flutter/material.dart';
import 'package:pertemuan_7/pages/mypage.dart';

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Material App',
      home: Scaffold(
        appBar: AppBar(
          title: const Text('Material App Bar'),
        ),
        body: Mypage(),
      ),
    );
  }
}
```

Souce Code product.dart:

```
class Product {
  final int id;
  final String nama;
  final double harga;
  final String imageUrl;
  final String deskripsi;

  // constructor
  Product({
    required this.id,
    required this.nama,
    required this.harga,
    required this.imageUrl,
    required this.deskripsi,
  });
}
```

```

// method untuk mengkonversi JSON ke objek product
factory Product.fromJson(Map<String, dynamic> json) {
  return Product(
    id: json['id'],
    nama: json['nama'],
    harga: json['harga'].toDouble(),
    imageUrl: json['imageUrl'],
    deskripsi: json['deskripsi']
  );
}

// method untuk mengkonversi object product ke JSON
Map<String, dynamic> toJson() {
  return {
    'id': id,
    'nama': nama,
    'harga': harga,
  };
}
}

```

Source Code detail.dart:

```

import 'package:flutter/material.dart';

class DetailProduct extends StatelessWidget {
  const DetailProduct({super.key, required this.data});

  final String data;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Detail Product'),
        centerTitle: true,
        backgroundColor: Colors.blue[300],
      ),
      body: Center(
        child: Text(data),
      ),
    );
  }
}

```

```
}
```

Source Code mypage.dart:

```
// ignore_for_file: prefer_const_constructors

import 'package:flutter/material.dart';
import 'package:pertemuan_7/models/product.dart';
import 'package:pertemuan_7/pages/detail.dart';

class Mypage extends StatelessWidget {
  Mypage({super.key});

  final List<Product> products = [
    Product(
      id: 1,
      nama: 'mouse',
      harga: 300.000,
      imageUrl:
        'https://resource.logitechg.com/w_386,ar_1.0,c_limit,f_auto,q_auto,dpr_2.0/d_transparent.gif/content/dam/gaming/en/products/g502x-plus/gallery/g502x-plus-gallery-1-black.png?v=1',
      deskripsi: 'mouse adalah tikus, tapi mouse kita bukan kaleng kaleng',
    ),
    Product(
      id: 2,
      nama: 'Keyboard Mechanical',
      harga: 350.000,
      imageUrl:
        'https://resource.logitech.com/w_1600,c_limit,q_auto,f_auto,dpr_1.0/d_transparent.gif/content/dam/logitech/en/products/keyboards/mx-mechanical/gallery/mx-mechanical-keyboard-top-view-graphite-us.png?v=1',
      deskripsi: 'Keyboard yang paling gacorr',
    ),
    Product(
      id: 3,
      nama: 'Headphone Gaming',
      harga: 700.000,
      imageUrl:
```

```
'https://m.media-amazon.com/images/I/61CGHv6kmWL.AC_UF894,1000_QL80.jpg',
```

```
  deskripsi: 'Bassnya rekomended bangett',
```

```
),
```

```
];
```

```
@override
```

```
Widget build(BuildContext context) {
```

```
  return Scaffold(
```

```
    appBar: AppBar(
```

```
      title: Text('Class Model'),
```

```
      centerTitle: true,
```

```
      backgroundColor: Colors.blue[300],
```

```
    ),
```

```
    body: ListView.builder(
```

```
      itemCount: products.length,
```

```
      itemBuilder: (context, index) {
```

```
        final product = products[index];
```

```
        return ListTile(
```

```
          leading: Image.network(
```

```
            product.imageUrl,
```

```
            width: 70,
```

```
            height: 70,
```

```
          ),
```

```
          title: Text(product.nama),
```

```
          subtitle: Column(
```

```
            crossAxisAlignment: CrossAxisAlignment.start,
```

```
            children: [
```

```
              Text('Harga : Rp${product.harga}'),
```

```
              Text(product.deskripsi),
```

```
            ],
```

```
          ),
```

```
          onTap: () {
```

```
            Navigator.push(
```

```
              context,
```

```
              MaterialPageRoute(
```

```
                builder: (_) =>
```

```
                  DetailProduct(data: 'Ini data dari My page')),
```

```
            );
```

```
          },
```

```
        );
```

```
      },
```

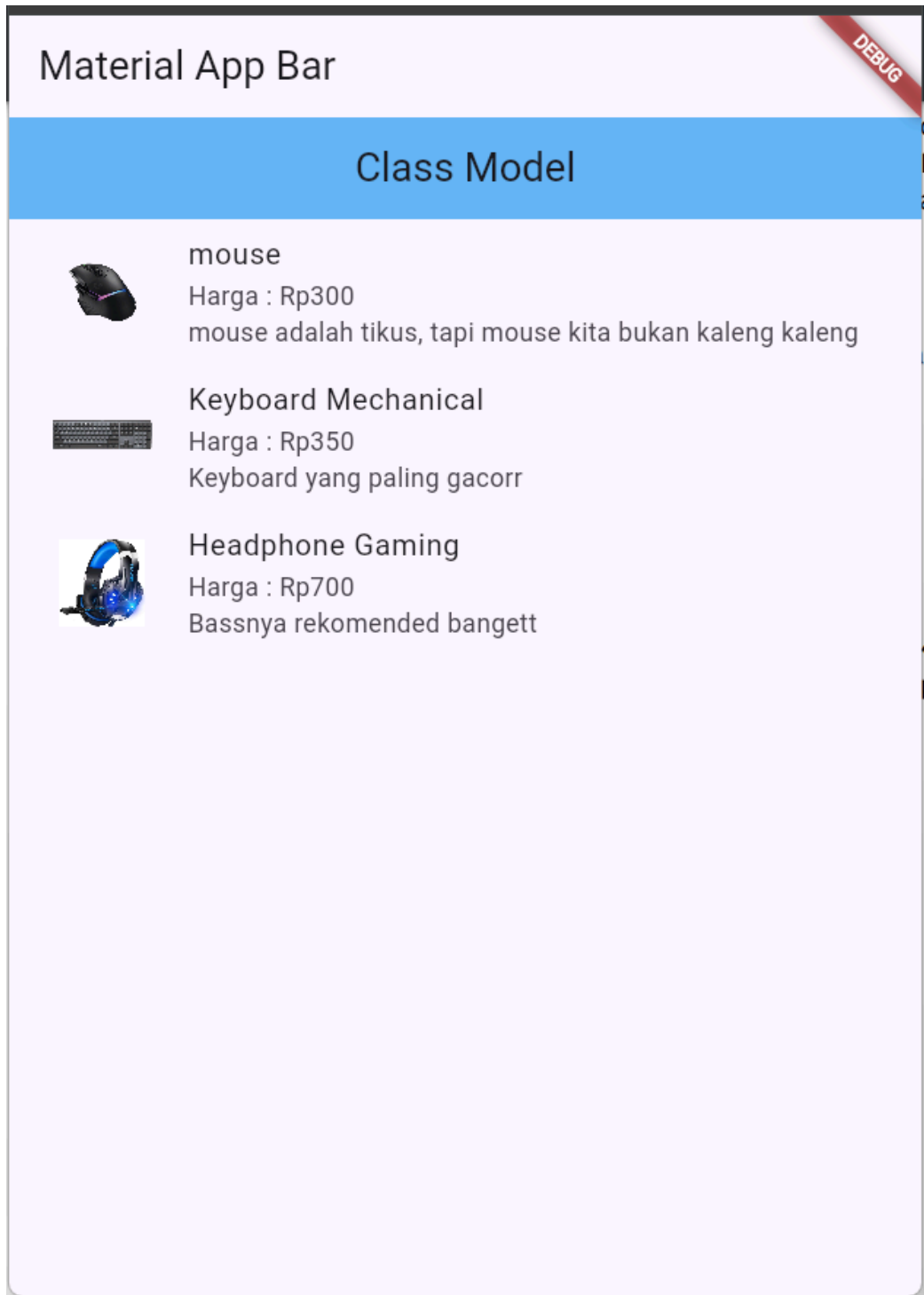
```
    ),
```

```
  );
```

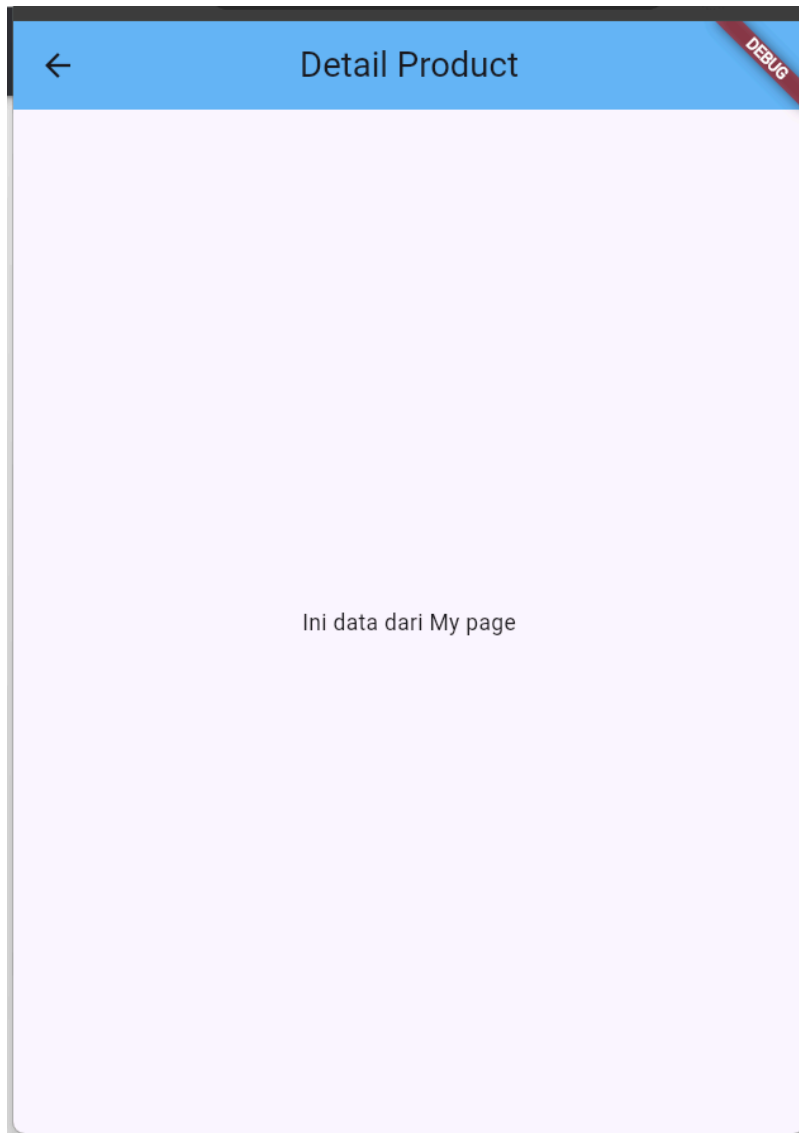
```
}  
}
```

Output Programs GUIDED:

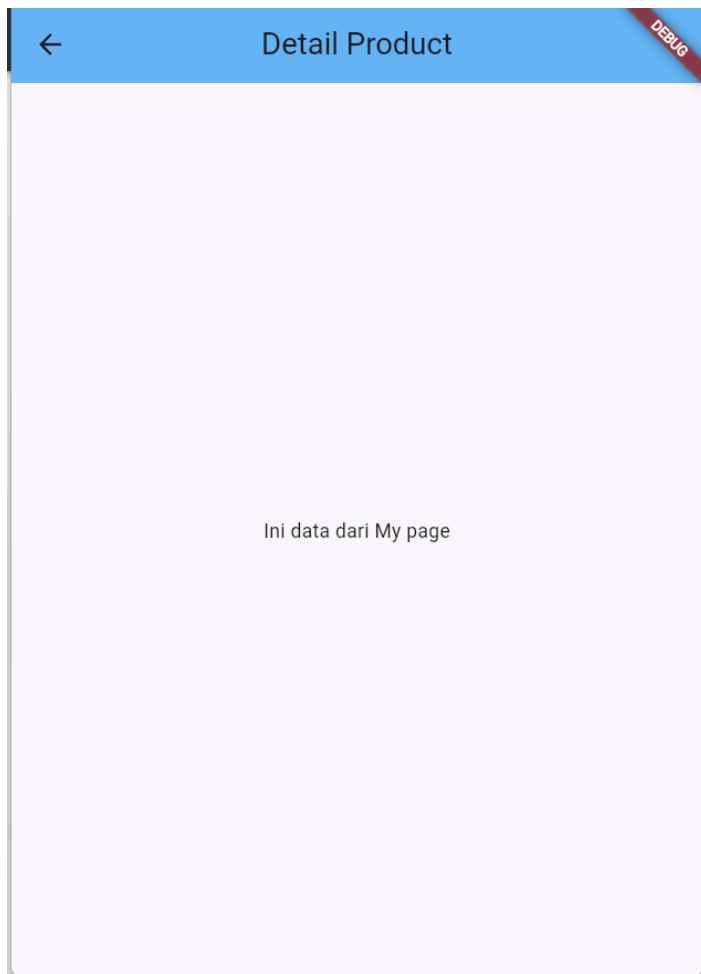
halaman class model:



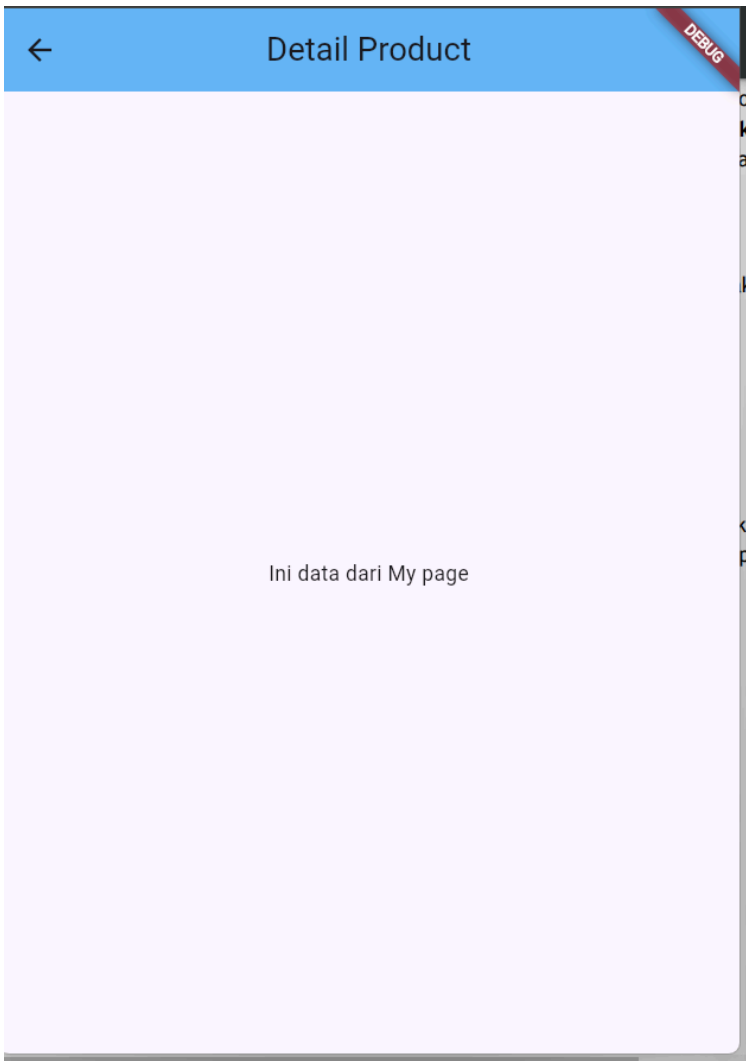
halaman keyboard mouse



halaman keyboard mechanical



halaman headphone gaming



UNGUIDED

Soal:

1. **Modifikasi project TP 06 (Tugas Pendahuluan) Interaksi Pengguna, dengan mengimplementasikan penggunaan form dan button.**

Jawab:

Source Code: Main.dart

```
import 'package:flutter/material.dart';
import 'product_list_screen.dart';

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Product App',
      theme: ThemeData(
        primarySwatch: Colors.green,
      ),
      home: ProductListScreen(),
    );
  }
}
```

Source Code product_detail_screen.dart

```
// product_detail_screen.dart
import 'package:flutter/material.dart';
import 'product.dart';

class ProductDetailScreen extends StatelessWidget {
  final Product product;

  const ProductDetailScreen({Key? key, required this.product})
    : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```

appBar: AppBar(
  title: Text(product.name),
),
body: SingleChildScrollView(
  padding: const EdgeInsets.all(16.0),
  child: Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      Hero(
        tag: product.imageUrl,
        child: Image.network(
          product.imageUrl,
          width: double.infinity,
          height: 200,
          fit: BoxFit.cover,
        ),
      ),
      const SizedBox(height: 16),
      Text(
        product.name,
        style: TextStyle(fontSize: 28, fontWeight: FontWeight.bold),
      ),
      const SizedBox(height: 8),
      Text(
        '\${product.price.toStringAsFixed(2)}',
        style: TextStyle(fontSize: 24, color: Colors.green),
      ),
      const SizedBox(height: 8),
      Divider(),
      const SizedBox(height: 8),
      Text(
        product.description,
        style: TextStyle(fontSize: 16),
      ),
      const SizedBox(height: 20),
      Divider(),
      const SizedBox(height: 20),
      Row(
        mainAxisAlignment: MainAxisAlignment.spaceAround,
        children: [
          ElevatedButton(
            onPressed: () {
              // Aksi "Beli"
            },
            child: const Text(
              'Beli Sekarang',
              style: TextStyle(fontSize: 18),
            ),
            style: ElevatedButton.styleFrom(

```

```

        backgroundColor:
          Colors.orange, // Ganti primary dengan
backgroundColor
        padding: const EdgeInsets.symmetric(
          horizontal: 24, vertical: 12),
      ),
    ),
    OutlinedButton(
      onPressed: () {
        // Aksi "Wishlist"
      },
      child: const Text(
        'Tambahkan ke Wishlist',
        style: TextStyle(fontSize: 18),
      ),
      style: OutlinedButton.styleFrom(
        padding: const EdgeInsets.symmetric(
          horizontal: 24, vertical: 12),
      ),
    ),
  ],
),
const SizedBox(height: 20),
],
),
),
);
}
}

```

Source Code product_list_screen.dart

```

import 'package:flutter/material.dart';
import 'product.dart';
import 'product_detail_screen.dart';

class ProductListScreen extends StatelessWidget {
  final List<Product> products = [
    Product(
      name: 'Mouse',
      price: 30000.0,
      description: 'Mouse optik tahan lama',
      imageUrl:
        'https://asset.kompas.com/crops/CZbtoZGt-Twe0FeCSWAfrNi3wpc=/1
63x20:1077x630/750x500/data/photo/2022/02/11/6206455eed4fb.jpeg',
    ),
  ],

```

```
Product(  
  name: 'Keyboard Mechanical',  
  price: 350000.0,  
  description: 'Keyboard kelas menengah',  
  imageUrl:
```

```
'https://altcustoms.com/cdn/shop/products/ninja.jpg?v=1654563797&width=600',
```

```
),  
Product(  
  name: 'Headphone Gaming',  
  price: 700000.0,  
  description: 'Bass nendang juga, rekomen',  
  imageUrl:
```

```
'https://img.id.my-best.com/content_section/choice_component/sub_contents/398b2aae47b989ccd9354756844ae431.png?ixlib=rails-4.3.1&q=70&lossless=0&w=690&fit=max&s=90e154dfdca35ca9ded5ed1a6c91c20c'
```

```
,  
),  
];
```

```
@override
```

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      title: Text('e-commerce'),  
      backgroundColor: const Color.fromARGB(255, 47, 184, 25),  
    ),  
    body: ListView.builder(  
      itemCount: products.length,  
      itemBuilder: (context, index) {  
        final product = products[index];  
        return Card(  
          elevation: 4,  
          margin: EdgeInsets.symmetric(vertical: 8, horizontal: 16),  
          child: ListTile(  
            leading: Image.network(  
              product.imageUrl,  
              width: 50,  
              height: 50,  
              fit: BoxFit.cover,  
            ),  
            title: Text(  
              product.name,  
              style: TextStyle(fontWeight: FontWeight.bold),  
            ),  
            subtitle: Column(  
              crossAxisAlignment: CrossAxisAlignment.start,
```

```

        children: [
          Text('Price: \${product.price.toStringAsFixed(2)}'),
          Text(product.description),
        ],
      ),
      onTap: () {
        Navigator.push(
          context,
          MaterialPageRoute(
            builder: (context) => ProductDetailScreen(product:
product),
          ),
        );
      },
    ),
  );
},
),
);
},
),
);
}
}
}

```

Source Code product.dart

```

// product.dart
class Product {
  final String name;
  final double price;
  final String description;
  final String imageUrl;

  Product({
    required this.name,
    required this.price,
    required this.description,
    required this.imageUrl,
  });
}

```

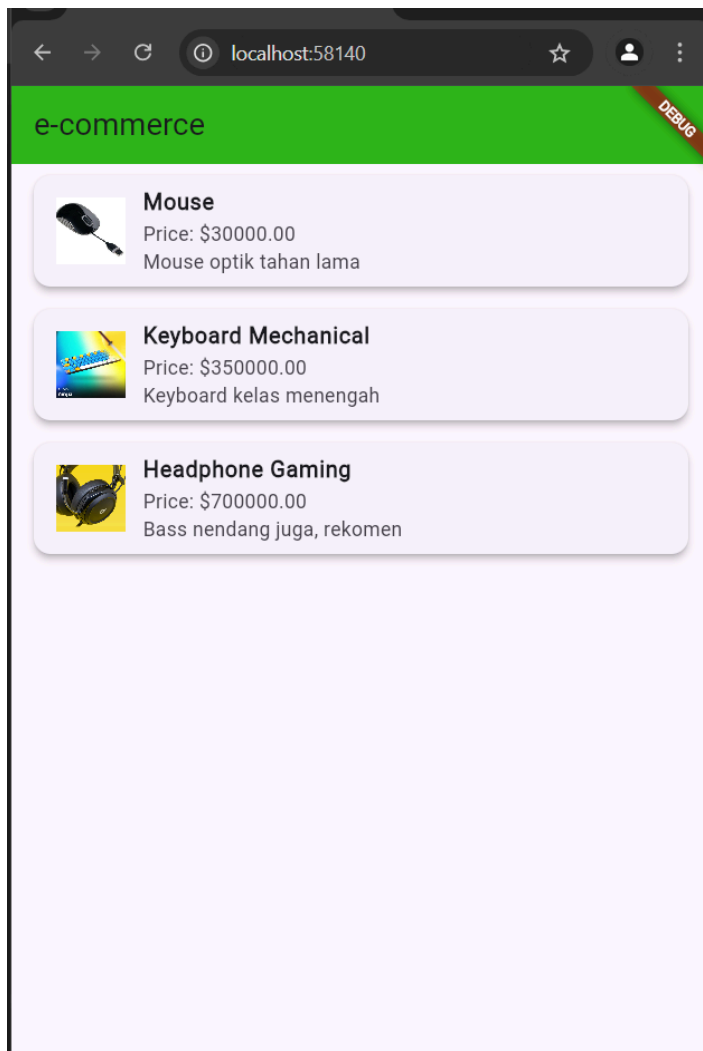
Output Programs **UNGUIDED**:

halaman utama:

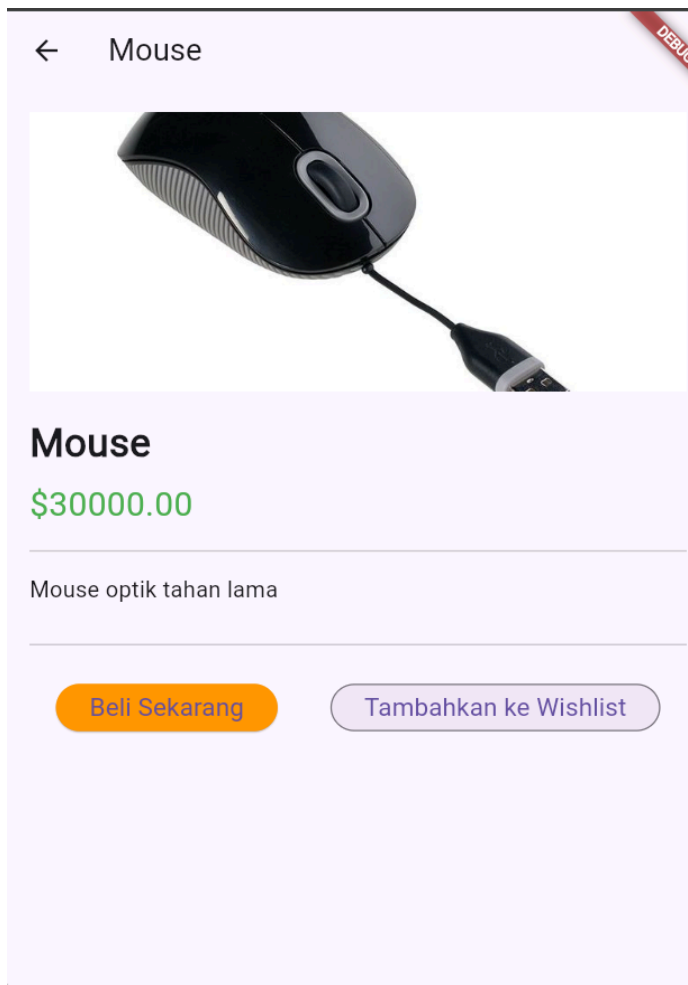
soal:

(Soal) Buatlah satu project untuk menampilkan beberapa produk dan halaman e-commerce dengan menerapkan class model serta navigasi halaman.

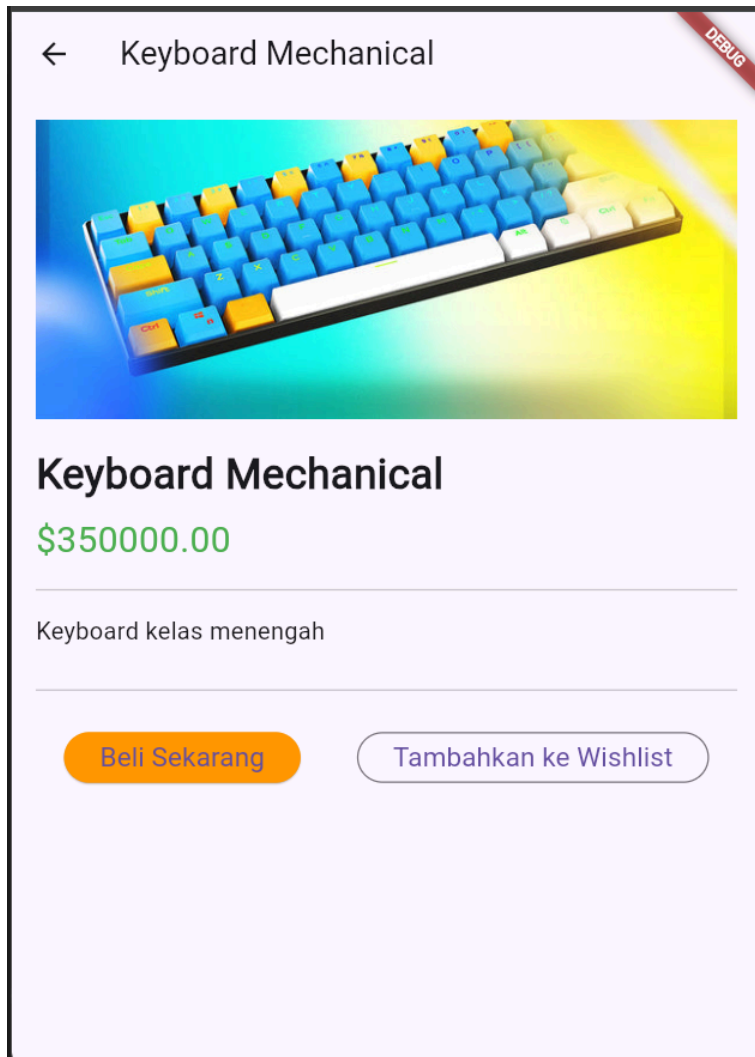
Jawab



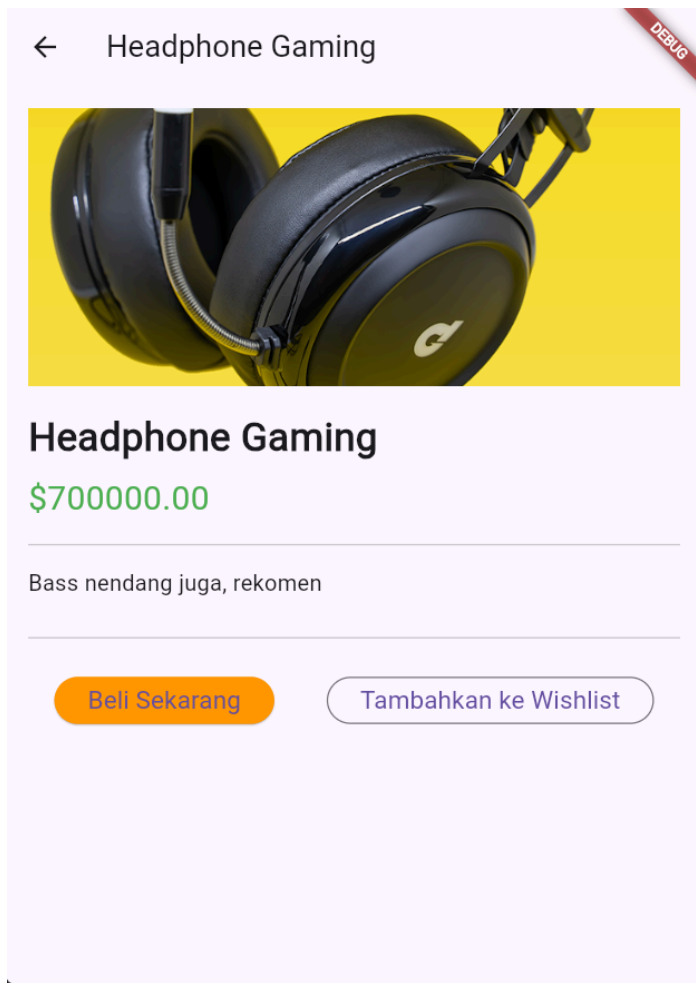
halaman mouse



halaman keyboard mechanical



halaman headphone gaming



Deskripsi Programs:

Aplikasi ini adalah aplikasi katalog produk sederhana berbasis Flutter yang menampilkan daftar produk beserta detailnya. Terdapat beberapa produk dengan informasi seperti nama, harga, deskripsi, dan gambar. Di layar daftar produk, pengguna dapat melihat semua produk yang tersedia, ditampilkan dengan gambar kecil dan deskripsi singkat. Ketika pengguna memilih sebuah produk, aplikasi akan menavigasi ke layar detail produk, yang memberikan informasi lebih mendalam, termasuk gambar besar, harga, dan deskripsi lengkap.

Pada halaman detail, tersedia juga dua tombol aksi: "Beli Sekarang" untuk memungkinkan pengguna melakukan pembelian langsung, dan "Tambahkan ke Wishlist" untuk menyimpan produk ke daftar favorit atau wishlist. Kedua tombol ini memberikan pilihan yang jelas kepada pengguna, membantu mereka membuat keputusan lebih mudah saat menjelajahi produk.

Kesimpulan

plikasi ini memberikan pengalaman navigasi yang sederhana dan intuitif dalam menjelajahi katalog produk, menampilkan informasi yang lengkap dan jelas pada

setiap produk. Struktur aplikasi dirancang untuk efisiensi, dengan daftar produk yang mudah diakses dan fitur detail yang meningkatkan pengalaman pengguna.