

Ketentuan;

Simpanlah file lembar jawaban ini dengan format; Kelas_Nama Lengkap

Contoh; TI 3C_Rifki Fakhrudin

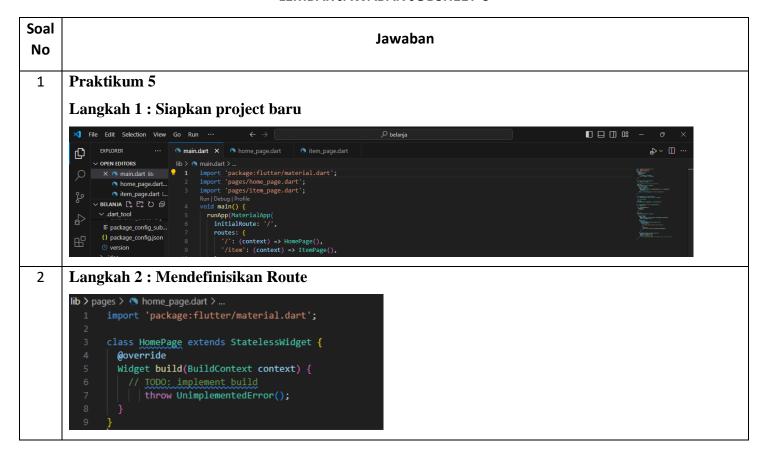
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Upload file tugas jobsheet di website Ims.polinema

Nama	:	Rifki Fakhrudin
Nim	:	2241720218
Kelas	:	3C

Tulislah Jawaban Pada Kolom Yang tersedia di bawah ini;

LEMBAR JAWABAN JOBSHEET-6





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

class ItemPage extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        // TODO: implement build
        | | throw UnimplementedError();
        }
}
```

3 | Langkah 3: Lengkapi Kode di main.dart

```
import 'package:flutter/material.dart';
import 'pages/home_page.dart';
import 'pages/item_page.dart';
Run|Debug|Profile
void main() {
   runApp(MaterialApp(
        initialRoute: '/',
        routes: {
             '/': (context) => HomePage(),
             '/item': (context) => ItemPage(),
             },
            )); // MaterialApp
}
```

5 Langkah 4: Membuat data model

7 Langkah 5: Lengkapi kode di class HomePage

```
class HomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    final List<Item> items = [
        Item(name: 'Sugar', price: 5000),
        Item(name: 'Salt', price: 2000),
    ];
```

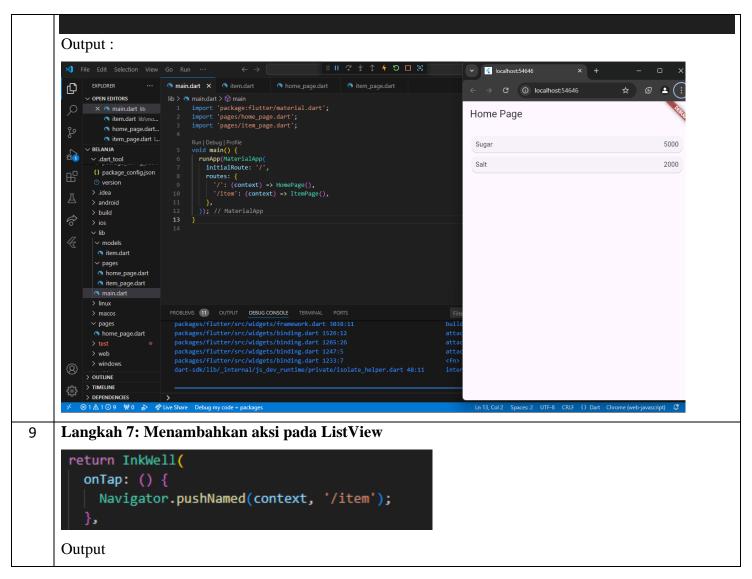


Jurusan Teknologi Informasi Politeknik Negeri Malang Jobsheet-6: Layout dan Navigasi

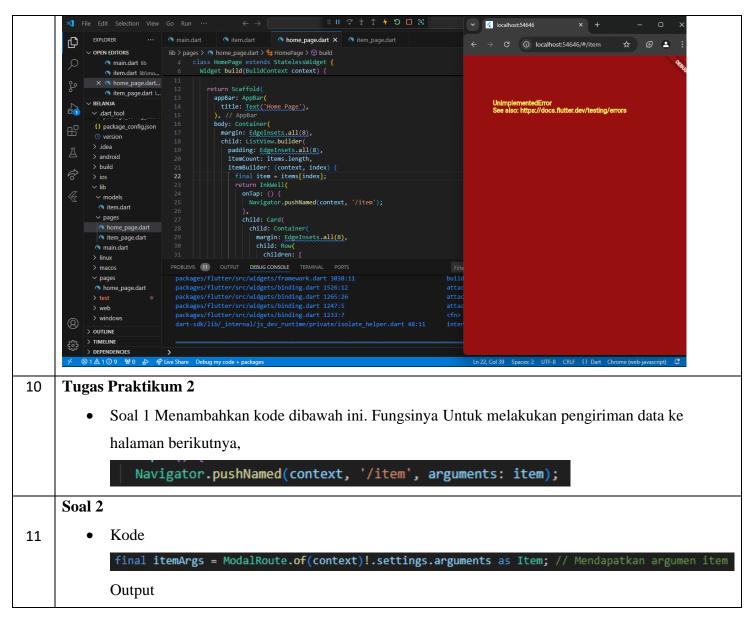
Mata Kuliah Pemograman Mobile

Langkah 6: Membuat ListView dan itemBuilder return Scaffold(appBar: AppBar(title: Text('Home Page'),), body: Container(margin: EdgeInsets.all(8), child: ListView.builder(padding: EdgeInsets.all(8), itemCount: items.length, itemBuilder: (context, index) { final item = items[index]; return InkWell(onTap: () { Navigator.pushNamed(context, '/item'); }, child: Card(child: Container(margin: EdgeInsets.all(8), child: Row(children: [Expanded(child: Text(item.name)), Expanded(child: Text(item.price.toString(), textAlign: TextAlign.end,),],),),),),),),

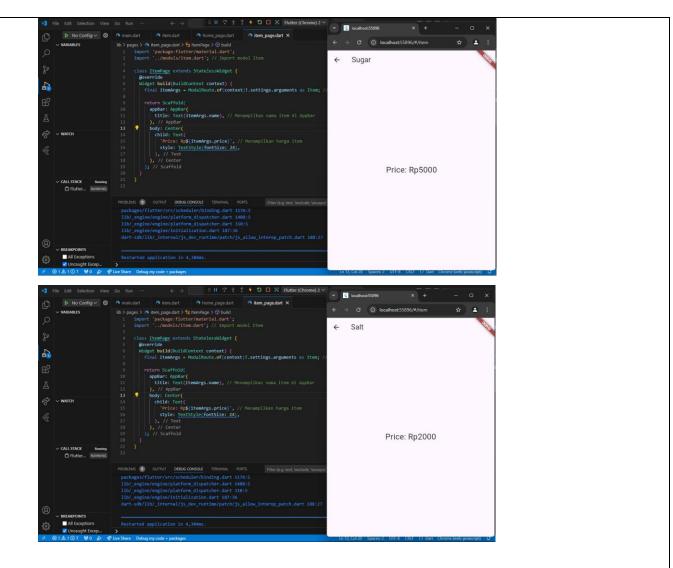












Soal 3 tambahkan atribut foto produk, stok, dan rating. Ubahlah tampilan menjadi GridView seperti di aplikasi marketplace pada umumnya.

Lakukan beberapa modifikasi pada beberapa Kode



• Class item.dart (menambahkan variable image,stock,dan rating)

```
class Item {
   String name;
   int price;
   String image;
   int stock;
   double rating;

Item({\begin{align*}{l} required this.name, required this.price, required this.image, required this.stock, required this.rating,
});
}
```

Class home_page.dart

```
import 'package:flutter/material.dart';
import '../models/item.dart';
class HomePage extends StatelessWidget {
  @override
 Widget build(BuildContext context) {
    final List<Item> items = [
      Item(name: 'Sugar', price: 5000, image: 'sugar.jpg', stock: 50, rating:
      Item(name: 'Salt', price: 2000, image: 'salt.jpg', stock: 100, rating:
      4.0),
    ];
      return Scaffold(
      appBar: AppBar(
        title: Text('Home Page'),
      body: Container(
        margin: EdgeInsets.all(8),
        child: GridView.builder(
          padding: EdgeInsets.all(8),
          gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
            crossAxisCount: 2, // Mengatur jumlah kolom menjadi 2
```



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Mata Kuliah Pemograman Mobile

```
crossAxisSpacing: 10,
      mainAxisSpacing: 10,
      childAspectRatio: 0.75, // Mengatur rasio tampilan item
    ),
    itemCount: items.length,
    itemBuilder: (context, index) {
      final item = items[index];
      return InkWell(
        onTap: () {
          Navigator.pushNamed(context, '/item', arguments: item);
        },
        child: Card(
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              Expanded(
                 child: Image.asset(
                   item.image,
                  fit: BoxFit.cover, // Menampilkan gambar produk
                  width: double.infinity,
                ),
               ),
              Padding(
                 padding: const EdgeInsets.all(8.0),
                 child: Column(
                   crossAxisAlignment: CrossAxisAlignment.start,
                   children: [
                     Text(item.name, style: TextStyle(fontWeight:
FontWeight.bold)),
                     Text('Rp${item.price}', style: TextStyle(color:
Colors.green)),
                     Text('Stock: ${item.stock}'),
                     Row(
                       children: [
                         Icon(Icons.star, color: Colors.yellow, size: 16),
                         Text('${item.rating}', style: TextStyle(fontSize:
12)),
                       ],
```



• Class item_page.dart

```
import 'package:flutter/material.dart';
import '../models/item.dart';
class ItemPage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    final itemArgs = ModalRoute.of(context)!.settings.arguments as Item;
    return Scaffold(
      appBar: AppBar(
        title: Text(itemArgs.name),
      ),
      body: Column(
        children: [
          Image.asset(
            itemArgs.image,
            fit: BoxFit.cover,
            width: double.infinity,
            height: 300,
          ),
          Padding(
            padding: const EdgeInsets.all(16.0),
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.start,
              children: [
```

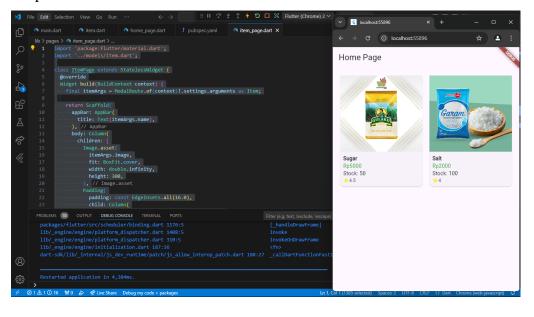


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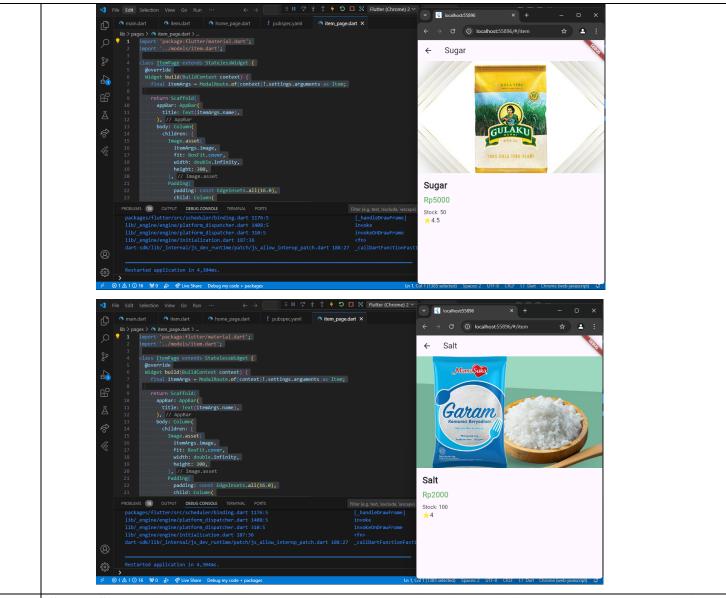
Mata Kuliah Pemograman Mobile

```
Text(itemArgs.name, style: TextStyle(fontSize: 24, fontWeight:
  FontWeight.bold)),
            SizedBox(height: 8),
            Text('Rp${itemArgs.price}', style: TextStyle(fontSize: 20,
  color: Colors.green)),
            SizedBox(height: 8),
            Text('Stock: ${itemArgs.stock}'),
            Row(
              children: [
                Icon(Icons.star, color: Colors.yellow, size: 20),
                Text('${itemArgs.rating}', style: TextStyle(fontSize: 16)),
              ],
            ),
          ],
     ),
    ],
 ),
);
```

Output







Soal 4 Silakan implementasikan Hero widget pada aplikasi belanja Anda dengan mempelajari dari sumber ini



• Modifikasi pada home_page.dart

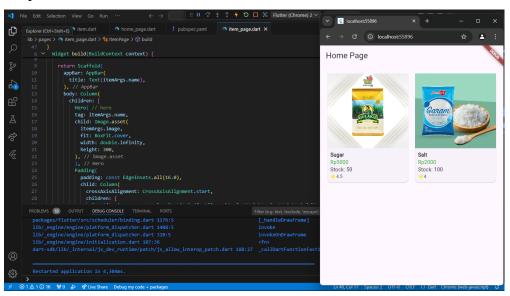
```
children: [
    Expanded(
        child: Hero( // Tambahkan Hero disini
        tag: item.name,
        child: Image.asset(
            item.image,
            fit: BoxFit.cover, // Menampilkan gambar produk
            width: double.infinity,
        ), // Image.asset
        ), // Hero
        ), // Expanded
```

• Modifikasi pada item_page.dart

```
body: Column(
children: [
Hero( // hero
tag: itemArgs.name,
child: Image.asset(
itemArgs.image,
fit: BoxFit.cover,
width: double.infinity,
height: 300,
), // Image.asset
), // Hero
```



Output



- Soal 5 : Sesuaikan dan modifikasi tampilan sehingga menjadi aplikasi yang menarik. Selain itu, pecah widget menjadi kode yang lebih kecil. Tambahkan Nama dan NIM di footer aplikasi belanja Anda.
 - Membuat kelas baru yaitu item_card.dart untuk menampilkan setiap produk dengan gambar, harga, stok, dan rating.

```
import 'package:flutter/material.dart';
import '../models/item.dart';

class ItemCard extends StatelessWidget {
    final Item item;
    final VoidCallback onTap;

    const ItemCard({required this.item, required this.onTap});

@override
Widget build(BuildContext context) {
    return InkWell(
        onTap: onTap,
        child: Card(
        elevation: 4,
```



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Mata Kuliah Pemograman Mobile

```
shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(15)),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Expanded(
              child: Hero(
                tag: item.name,
                child: ClipRRect(
                  borderRadius: BorderRadius.vertical(top: Radius.circular(15)),
                  child: Image.asset(
                    item.image,
                    fit: BoxFit.cover,
                    width: double.infinity,
                  ),
                ),
              ),
            ),
            Padding(
              padding: const EdgeInsets.all(8.0),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  Text(item.name, style: TextStyle(fontWeight: FontWeight.bold,
fontSize: 16)),
                  Text('Rp${item.price}', style: TextStyle(color: Colors.green,
fontSize: 14)),
                  Text('Stock: ${item.stock}', style: TextStyle(fontSize: 12,
color: Colors.grey)),
                  Row(
                    children: [
                      Icon(Icons.star, color: Colors.yellow, size: 16),
                      Text('${item.rating}', style: TextStyle(fontSize: 12)),
                    ],
                  ),
                ],
              ),
            ),
          ],
```



```
),
);
}
}
```

• Modifikasi Kelas Home_page.dart

```
import 'package:flutter/material.dart';
import '../models/item.dart';
import '../models/item_card.dart';
class HomePage extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
    final List<Item> items = [
      Item(name: 'Sugar', price: 5000, image: 'sugar.jpg', stock: 50, rating:
4.5),
      Item(name: 'Salt', price: 2000, image: 'salt.jpg', stock: 100, rating:
4.0),
      Item(name: 'Brokoli', price: 6000, image: 'brokoli.jpg', stock: 35,
rating: 4.3),
      Item(name: 'Carrot', price: 8000, image: 'carrot.png', stock: 40, rating:
4.2),
    ];
    return Scaffold(
      appBar: AppBar(
        title: Text('Shop Rifki'),
      ),
      body: Column(
        children: [
          Expanded(
            child: GridView.builder(
              padding: EdgeInsets.all(8),
              gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
                crossAxisCount: 2,
                crossAxisSpacing: 10,
                mainAxisSpacing: 10,
                childAspectRatio: 0.75,
              ),
              itemCount: items.length,
```



```
itemBuilder: (context, index) {
              final item = items[index];
              return ItemCard(
                item: item,
                onTap: () {
                  Navigator.pushNamed(context, '/item', arguments: item);
                },
              );
            },
          ),
        _buildFooter(),
      ],
    ),
  );
Widget _buildFooter() {
  return Padding(
    padding: const EdgeInsets.all(8.0),
    child: Text(
      'Rifki Fakhrudin - NIM: 2241720218',
      style: TextStyle(fontSize: 12, color: Colors.grey),
      textAlign: TextAlign.center,
  );
```

Modifikasi Kelas item_page.dart

```
import 'package:flutter/material.dart';
import '../models/item.dart';

class ItemPage extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
        final itemArgs = ModalRoute.of(context)!.settings.arguments as Item;

    return Scaffold(
        appBar: AppBar(
```



```
title: Text(itemArgs.name),
      ),
      body: Column(
        children: [
          Hero(
            tag: itemArgs.name,
            child: Image.asset(
              itemArgs.image,
              fit: BoxFit.cover,
              width: double.infinity,
              height: 300,
            ),
          ),
          Padding(
            padding: const EdgeInsets.all(16.0),
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.start,
              children: [
                Text(itemArgs.name, style: TextStyle(fontSize: 24, fontWeight:
FontWeight.bold)),
                SizedBox(height: 8),
                Text('Rp${itemArgs.price}', style: TextStyle(fontSize: 20,
color: Colors.green)),
                SizedBox(height: 8),
                Text('Stock: ${itemArgs.stock}', style: TextStyle(fontSize:
16)),
                Row(
                  children: [
                    Icon(Icons.star, color: Colors.yellow, size: 20),
                    Text('${itemArgs.rating}', style: TextStyle(fontSize: 16)),
                  ],
                ),
              ],
            ),
        ],
    );
```



