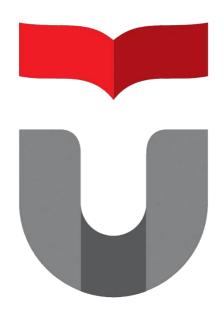
## TUGAS PENDAHULUAN PEMROGRAMAN PERANGKAT BERGERAK

# MODUL VII NAVIGASI DAN NOTIFIKASI



Disusun Oleh :

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SE-06-02

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PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
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#### **TUGAS PENDAHULUAN**

#### A. SOAL NOMOR 1

a) Buatlah satu project baru, yang mana di dalamnya terdapat *navigasi* untuk pindahdari satu halaman ke halaman lainnya.

#### **Source code:**

```
import 'package:flutter/material.dart';
void main() {
 runApp(const MyApp());
class MyApp extends StatelessWidget {
 const MyApp({super.key});
  Widget build(BuildContext context) {
    return MaterialApp(
   title: 'Cafe Menu',
      theme: ThemeData(
        primarySwatch: Colors.brown,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      home: const HomePage(),
    );
 }
class HomePage extends StatefulWidget {
 const HomePage({super.key});
  @override
  State<HomePage> createState() => _HomePageState();
class HomePageState extends State<HomePage>
    with SingleTickerProviderStateMixin {
  late TabController tabController;
  Roverride
  void initState() {
    super.initState();
    _tabController = TabController(length: 3, vsync: this);
  @override
  void dispose() {
     tabController.dispose();
    super.dispose();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Cafe Menu'),
        bottom: TabBar(
          controller: _tabController,
tabs: const [
            Tab(icon: Icon(Icons.restaurant_menu), text: 'Makanan'),
Tab(icon: Icon(Icons.wine_bar), text: 'Minuman'),
            Tab(icon: Icon(Icons.cake), text: 'Dessert'),
          ],
        ),
      body: TabBarView(
        controller: tabController,
        children: const [
          MenuSection(items: [
```

```
MenuItem(
              name: 'Classic Beef Burger',
              price: 'Rp 65.000',
              description: 'Beef patty, lettuce, tomato, cheese, special sauce',
              imageUrl:
                  'https://simply-delicious-food.com/wp-
content/uploads/2020/08/Bourbon-basted-cheeseburger-2-500x500.jpg',
            MenuItem(
             name: 'Grilled Sirloin Steak',
              price: 'Rp 125.000',
              description:
                  '200g Australian beef with mashed potato and vegetables',
              imageUrl:
                  //'https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTH CPDkelQirmnMQSD1v8gNt16JQbvzd4A3SAQoadXjMJJtcL5m
kwY7t-UbpY6cr9nqgE&usqp=CAU',
                  'https://www.foodfirefriends.com/wp-content/uploads/2020/05/sirloin-
steak.jpg',
            MenuItem (
              name: 'Spaghetti Carbonara',
price: 'Rp 58.000',
              description: 'Creamy pasta with beef bacon and parmesan cheese',
              imageUrl:
                  'https://girlcarnivore.com/wp-content/uploads/2021/01/Classic-
Carbonara-with-Prosciutto-34.jpg',
            MenuIt.em (
              name: 'Caesar Salad',
              price: 'Rp 45.000',
              description:
                  'Romaine lettuce, grilled chicken, croutons, caesar dressing',
              imageUrl:
                  //'https://lindseyeatsla.com/wp-
content/uploads/2021/10/Lindseyeats Classic Caesar Salad-2.jpg',
                  'https://www.acouplecooks.com/wp-content/uploads/2020/06/Caesar-
Salad-054.jpg',
            MenuItem(
             name: 'Fish & Chips',
              price: 'Rp 68.000',
              description: 'Crispy dory fish with fries and tartar sauce',
              imageUrl:
                  'https://www.thecandidcooks.com/wp-content/uploads/2022/07/fish-and-
chips-feature1-1024x683.jpg',
            MenuItem(
              name: 'Club Sandwich',
              price: 'Rp 52.000',
              description:
                  'Triple decker with chicken, egg, bacon, and vegetables',
              imageUrl:
https://t4.ftcdn.net/jpg/02/58/91/65/240 F 258916556 B6oirjJOKQkaxx39KPi9wjf9ePlT7zF8.
jpg',
            ),
          1),
          MenuSection(items: [
            MenuItem(
              name: 'Iced Americano',
              price: 'Rp 28.000',
              description: 'Double shot espresso with cold water',
              imageUrl:
https://129247483.cdn6.editmysite.com/uploads/1/2/9/2/129247483/s838334798597674802 p1
080 i1 w1080.jpeg',
            ),
            MenuItem(
              name: 'Caramel Frappe',
              price: 'Rp 35.000',
              description: 'Blended coffee with caramel and whipped cream',
              imageUrl:
                  'https://images.stockcake.com/public/c/d/6/cd631227-f94a-4f92-a29f-
86968a727c9c large/caramel-frappe-delight-stockcake.jpg',
            ),
            MenuItem(
              name: 'Fresh Lemonade',
              price: 'Rp 25.000',
              description: 'Freshly squeezed lemon with mint leaves',
              imageUrl:
                  'https://www.cocktailcontessa.com/wp-content/uploads/2022/06/bourbon-
```

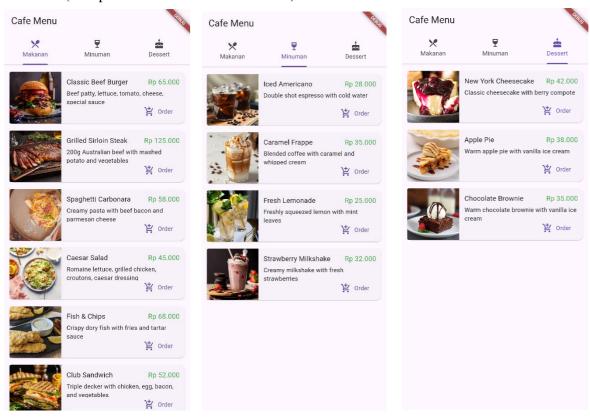
```
lemonade-14-768x1024.jpg',
            MenuItem(
              name: 'Strawberry Milkshake',
              price: 'Rp 32.000',
              description: 'Creamy milkshake with fresh strawberries',
              imageUrl:
                  'https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTSAKx94LNOFmPRNNP91-2B3blPUrXitYnl-Q&s',
           ),
          ]),
          MenuSection(items: [
            MenuItem(
              name: 'New York Cheesecake',
              price: 'Rp 42.000',
              description: 'Classic cheesecake with berry compote',
              imageUrl:
                  'https://www.chocolatemoosey.com/wp-content/uploads/2022/12/7-Inch-
Cheesecake-Recipe-photo-8088.jpg',
            ),
            MenuItem(
              name: 'Apple Pie',
price: 'Rp 38.000',
              description: 'Warm apple pie with vanilla ice cream',
              imageUrl:
                  'https://www.thebittersideofsweet.com/wp-
content/uploads/2023/09/Simple-Apple-Pie-SQ.jpg',
            MenuIt.em (
              name: 'Chocolate Brownie',
              price: 'Rp 35.000',
              description: 'Warm chocolate brownie with vanilla ice cream',
              imageUrl: 'https://vegetarianforlife.org.uk/images/Brownie.jpg',
            ),
         ]),
       ],
     ),
   );
 }
class MenuItem {
  final String name;
  final String price;
  final String description;
 final String imageUrl;
 const MenuItem({
   required this.name,
    required this.price,
    required this.description,
    required this.imageUrl,
 });
class MenuSection extends StatelessWidget {
 final List<MenuItem> items;
 const MenuSection({super.key, required this.items});
  Roverride
  Widget build(BuildContext context) {
    return ListView.builder(
      padding: const EdgeInsets.all(8),
      itemCount: items.length,
      itemBuilder: (context, index) {
        final item = items[index];
        return Card(
          margin: const EdgeInsets.symmetric(vertical: 8, horizontal: 4),
          child: InkWell(
            onTap: () {
              Navigator.push(
                context,
                MaterialPageRoute(
                 builder: (context) => DetailPage(item: item),
                ),
              );
            },
            child: SizedBox(
              height: 120,
              child: Row(
                children:
```

```
// Gambar di sisi kiri
                  ClipRRect(
                   borderRadius:
                       const BorderRadius.horizontal(left: Radius.circular(4)),
                    child: Image.network(
                     item.imageUrl,
                      width: 120,
                     height: 120,
                     fit: BoxFit.cover,
                   ),
                  ),
                  // Informasi menu di sisi kanan
                  Expanded (
                    child: Padding(
                     padding: const EdgeInsets.all(12),
                      child: Column(
                        crossAxisAlignment: CrossAxisAlignment.start,
                        children: [
                            mainAxisAlignment: MainAxisAlignment.spaceBetween,
                            children: [
                              Expanded (
                                child: Text(
                                  item.name,
                                  style:
                                      Theme.of(context).textTheme.titleMedium,
                                  maxLines: 1,
                                 overflow: TextOverflow.ellipsis,
                               ),
                             ),
                              Text(
                               item.price,
                               style: Theme.of(context)
                                    .textTheme
                                    .titleMedium
                                    ?.copyWith(color: Colors.green),
                             ),
                           ],
                          ),
                          const SizedBox(height: 4),
                          Expanded (
                            child: Text(
                             item.description,
                              style: Theme.of(context).textTheme.bodyMedium,
                             maxLines: 2,
                             overflow: TextOverflow.ellipsis,
                           ),
                          ),
                          // Tombol Order
                          Row (
                           mainAxisAlignment: MainAxisAlignment.end,
                            children: [
                              TextButton.icon(
                               onPressed: () {
                                 ScaffoldMessenger.of(context).showSnackBar(
                                    const SnackBar(
                                      content:
                                          Text('Item ditambahkan ke keranjang'),
                                      duration: Duration(seconds: 2),
                                   ),
                                 );
                                },
                                icon: const Icon(Icons.add_shopping_cart),
 label: const Text('Order'),
                             ),
 }
class DetailPage extends StatelessWidget {
```

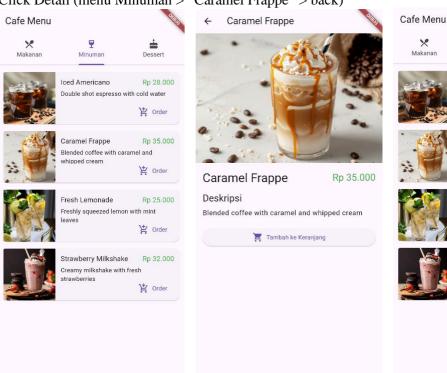
```
final MenuItem item;
const DetailPage({super.key, required this.item});
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text(item.name),
    body: SingleChildScrollView(
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Image.network(
            item.imageUrl,
            height: 300,
            width: double.infinity,
            fit: BoxFit.cover,
          ),
          Padding(
            padding: const EdgeInsets.all(16),
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.start,
              children: [
                Row (
                  mainAxisAlignment: MainAxisAlignment.spaceBetween,
                  children: [
                    Expanded (
                      child: Text(
                        item.name,
                        style: Theme.of(context).textTheme.headlineMedium,
                      ),
                    ),
                    Text(
                      item.price,
                      style: Theme.of(context)
                           .textTheme
                           .titleLarge
                           ?.copyWith(color: Colors.green),
                    ),
                  ],
                ),
                const SizedBox(height: 16),
                Text(
                  'Deskripsi',
                  style: Theme.of(context).textTheme.titleLarge,
                const SizedBox(height: 8),
                Text(
                  item.description,
                  style: Theme.of(context).textTheme.bodyLarge,
                const SizedBox(height: 24),
                SizedBox(
                  width: double.infinity,
                  child: ElevatedButton.icon(
                    onPressed: () {
                      ScaffoldMessenger.of(context).showSnackBar(
                        const SnackBar(
                          content: Text('Item ditambahkan ke keranjang'),
                          duration: Duration(seconds: 2),
                        ),
                      );
                    },
                     icon: const Icon(Icons.shopping_cart),
                    label: const Text('Tambah ke Keranjang'),
                    style: ElevatedButton.styleFrom(
  ),
),
),
),
                      padding: const EdgeInsets.all(16),
                    ),
 );
}
```

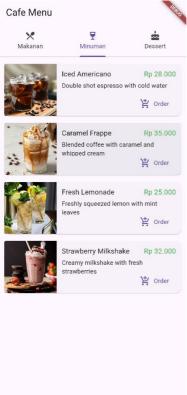
## **Screenshoot Output**

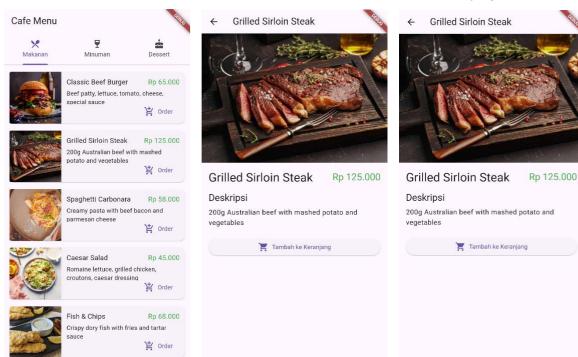
Menu bar (on tap makanan > minuman > dessert)



Click Detail (menu Minuman > "Caramel Frappe" > back)







ditambahkan ke keranjang

### Click Order (click detail menu "Grilled Sirloin Steak" > "Tambahkan ke Keranjang")

#### Deskripsi Program:

Club Sandwich

ind vegetables

Triple decker with chicken, egg, bacon,

Rp 52,000

U Order

Di sini saya membuat program menu restaurant yang memiliki berbagai menu di dalamnya.

Dalam program ini ada tiga kategori menu: Makanan (dengan icon restaurant\_menu), Minuman (dengan icon wine bar), dan Dessert (dengan icon cake).

Ada pun fitur-fitur yang saya gunakan diantaranya: TabBar untuk navigasi antar kategori menu, ListView dengan card untuk setiap item menu, Detail page untuk setiap item, tombol "Tambah ke Keranjang" dengan respon snackbar, tampilan harga dan deskripsi yang jelas saat user mengklik tiap card menu tertentu.

Untuk layoutnya sendiri saya menggunakan card dengan gambar menu untuk menampilkan informasi nama, harga, dan deskripsi singkat setiap menu, yang jika diklik, akan mengarahkan ke halaman detail dengan informasi lebih lengkap.