LAPORAN UTS PEMROGRAMAN MOBILE

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JURUSAN TEKNOLOGI INFORMASI PRODI D-IV SISTEM INFORMASI BISNIS POLITEKNIK NEGERI MALANG 2024

Instruksi:

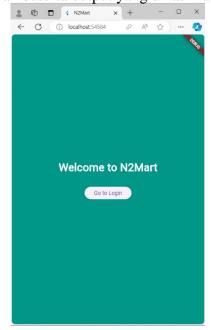
- 1. Buat aplikasi Flutter sederhana yang memiliki lima halaman: Landing Page, Login Page, Halaman Utama (Home), About, dan Profile.
- 2. Aplikasi harus menggunakan sistem navigasi antar halaman.
- 3. Gunakan Flutter Layout untuk menata tampilan setiap halaman.
- 4. Implementasikan logika sederhana pada Login Page, yaitu: o Jika username dan password diisi dengan benar (contoh: username: admin, password: admin123), maka pengguna diarahkan ke Halaman Utama (Home). o Jika login gagal, tampilkan pesan error di bawah form login.
- 5. Gunakan minimal satu widget Stateful dan sisanya widget Stateless.
- 6. Sertakan tampilan responsif untuk mendukung berbagai ukuran layar.
- 7. Halaman Profile harus menampilkan informasi pengguna yang diambil dari input di halaman login (misalnya, menampilkan username).
- 8. Pada halaman About, tuliskan deskripsi singkat tentang aplikasi.
- 9. Landing Page adalah halaman pertama yang muncul ketika aplikasi dibuka, dan menampilkan tombol untuk masuk ke halaman login.

A. Model item

```
lib > models >  item.dart >  ltem >  ltem

1    class Item {
2         String name;
3         int price;
4         int stock;
5         double rating;
6         String imageUrl;
7
8         Item({
9             required this.name,
10             required this.stock,
11             required this.stock,
12             required this.rating,
13             required this.imageUrl,
14             });
15         }
```

B. Landing Page



C. Login Page

```
class _loginPageState extends StatecLoginPage> {
    final TextEditingController _usernameController - TextEditingController();
    final TextEditingController _passwordController - TextEditingController();
// Login function
void _login() ||
String username = _usernameController.text;
String password = _passwordController.text;
       // Validate login

if (username -- 'admin' && password -- 'admini23') {

|// Ganti 'makanam' demgam kategori yang sesual

Novigator-pushhaplacementhämed(context, '/home', arguments: {

"username': username, // Kireh username

"category': 'makanam', // Ataw kategori lainnya sesual kebutuhan

);

alse {

// Show error message if login falls
```



D. Halaman Profil

```
import 'peckage (filter/nearerial.dart')

class Perfoliating extends Statelessingst {

final tring servers.

final tring servers.

count Perfoliating extends Statelessingst {

final tring servers.

count Perfoliating counts in Statelessingst {

final tring servers.

count Perfoliating counts in Statelessingst {

final tring servers.

count Perfoliating (count-key, required this.serverss));

performance the statelessing servers.

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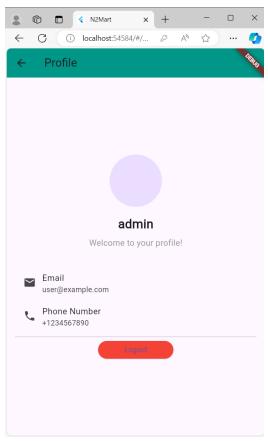
performance the statelessing servers.

count servers.

count performance the statelessing servers.

count servers.

count
```



E. Halaman Homepage

```
| Image: | Nonepage |
```

```
Bb > pagec > 10 home_page.dart > 13 _HomePageState > 10 build
14 class _NonePageState extends StateckmePage> (
                   @override
                   @override
Widget build(BuildContext context) {
                        reper oblighted content content; {
return Scaffield(
appBar: AppBar(
title: const Test('Shopping List'),
backgroundColor: Uchlors.teal,
), // AppBar
                            body: GridView.builder(
| padding: const EdgeInsets.all(10),
                                 gridDelegate: const SliverGridDelegateWithFixedCroxxWrixCount(
    croxxWrixCount: 2,
                               crossAsisCourt: 2,

crossAsisSpacing: 10,

mainksisSpacing: 10,

childAspactRatio: 2 / 3, // Adjust the aspect ratio for better visuals

), // SilverGridDelegateWithFisedCrossAsisCount

itemCount: items.length,

itemCount: items.length,

itemCounties items.length;

return Probbellf

return Probbellf
                                          onTap: () {

// Navigate to ItemPage with item data
                                             Nevigetor.pushNamed(
context,
                                                 '/item',
arguments: item,
                                          h
child: Hero(
                                              tag: item.mame,
child: Card(
                                               elevation: 5,
shape: RoundedRectangleBorder(
                                               borderRadius: BorderRadius.circular(15),
), // RoundedRectangleBorder
child: Column(
                                                    crossAxisAlignment: CrossAxisAlignment.start,
children: [
                                                            Expanded(
child: ClipRRect(
borderRadius: const NorderRadius.only(
                                                                         topleft: Radius.circular(15),
topRight: Radius.circular(15),
                                                                    ), // BorderRadius.only
child: Image.asset(
                                                                         iten.imageUrl,
                                                           item.imagelri,
fit: Barfit.cover,
width: double.infinity,
), // Image.asset
), // ClipRBect
), // Expanded
Padding(
                                                                 padding: const EdgeInsets.all(8.8),
child: Column(
| crossAxisAlignment: CrossAxisAlignment.start,
                                                                         iten.mame,
style: const TestStyle(
fontWeight: FontWeight.bold,
                                                                         fortNeight: FortNeight.
fortSize: 16,
), // TextStyle
), // Text
const SizedNox(height: 4),
                                                                        const SizedBox(height: 4),
Text(
    'Up $(item.price)',
    style: const TextStyle(
    fontSize: 14,
    color: D'Colors.teal,
    ), // TextStyle
    const SizedBox(height: 4),
Text(
    'Stock: $(item.stock)'.
                                                                         Text(
    "Stock: $(iten.stock)",
    style: const TextStyle(fontSize: 12, color: @Colors.grey),
}, // Text
const SizedBox(Meight: 4),
                                                                         Rowl
                                                                              children: (
const Icon
Icons.star,
color: Dolors.amber,
size: 14,
, // Icon
const SizedDos(width: 4),
 140
                                                                                 Text(
    '$(item.rating)',
    atyle: const TestStyle(
    fontSize: 12,
                                                                                 color: Colors.grey,
), // TextStyle
), // Text
                                  ], // Column
], // Card
], // Ideal

CridView J
                            ). // GridView.builder
```

```
lib > pages > 🦠 home_page.dart > ધ _HomePageState > ♀ build
                                                                   6
                                                                      14 × class _HomePageState extends State<HomePage> {
                                                                    C
                                                                      Widget build(BuildContext context) {
           bottomNavigationBar: BottomNavigationBar(
                                                                     Shopping List
             currentIndex: _selectedIndex,
             onTap: (index) {
               setState(() {
                 _selectedIndex = index;
               _onItemTapped(index);
             items: const <BottomNavigationBarItem>[
               BottomNavigationBarItem(
                 icon: Icon(Icons.store),
                                                                 Macaron
                                                                 Rp 5000
                 label: 'Beranda',
                                                                 Stock: 10
               ), // BottomNavigationBarItem
                                                                 * 4.5
               BottomNavigationBarItem(
                 icon: Icon(Icons.shopping_cart),
                 label: 'Cart',
               ), // BottomNavigationBarItem
               BottomNavigationBarItem(
                 icon: Icon(Icons.person),
                 label: 'Profile',
             ], // <BottomNavigationBarItem>[]
                                                                     =
```

F. Halaman Keranjang Berikut adalah inputan yang saya masukkan beserta output yang dihasilkan

```
import 'package:flutter/material.dart';
   const CartPage({super.key});
  @override
   Widget build(BuildContext context) {
     /// Dummy data for cart items (replace with your actual cart management logic)
final List<String> cartItems = ['Macaron', 'Soda']; // Contoh item di keranjang
        appBar: AppBar(
title: const Text('Keranjang Belanja'),
        body: Padding(
           padding: const EdgeInsets.all(16.0),
           child: cartItems.isNotEmpty
                 ? ListView.builder(
                       itemCount: cartItems.length,
                      itemBuilder: (context, index)
                        return ListTile(
title: Text(cartItems[index]),
); // ListTile
                   ) // ListView.builder
                 : const Center(
                    child: Text('Keranjang Anda kosong!'),
        bottomNavigationBar: BottomAppBar(
           child: Padding(
padding: const EdgeInsets.all(8.0),
child: ElevatedButton(
                onPressed: () {
                   INPRESSEC. ()

// Tambahkan logika checkout di sini
ScaffoldMessenger.of(context).showSnackBar(
const SnackBar(content: Text('Checkout belum diimplementasikan')),
                child: const Text('Checkout'),
     child: const lext(
), // ElevatedButtor
), // Padding
), // BottomAppBar
); // Scaffold
```



Profile

Ramyeon

Rp 2000

***** 4

G. Halaman Detail Produk

```
lib > pages > 🦠 item_page.dart > 😭 ItemPage > 😭 build
      import 'package:flutter/material.dart';
      import 'package:flutter_uts_belanja/models/item.dart'; // Pastikan model Item sudah didefinisikan
      class ItemPage extends StatelessWidget {
       final Item item;
        const ItemPage({super.key, required this.item});
        @override
        Widget build(BuildContext context) {
            appBar: AppBar(
             title: Text(item.name),
            ), // AppBar
            body: Padding(
            padding: const EdgeInsets.all(16.0),
              child: Column(
               crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                 Image.asset(
                   item.imageUrl,
                   height: 200,
                    fit: BoxFit.cover,
                  ), // Image.asset
                  const SizedBox(height: 16.0),
                  item.name,
                    style: const TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
                  const SizedBox(height: 8.0),
                   'Harga: Rp ${item.price}',
                    style: const TextStyle(fontSize: 18, color: ■Colors.green),
                  const SizedBox(height: 8.0),
                    'Stok: ${item.stock}',
                    style: const TextStyle(fontSize: 18),
                  const SizedBox(height: 8.0),
                    'Rating: ${item.rating}',
                   style: const TextStyle(fontSize: 18),
                  const SizedBox(height: 16.0),
                  ElevatedButton(
                   onPressed: () {
                     Navigator.pushNamed(context, '/about', arguments: item);
                   child: const Text('Detail'),
            ), // Padding
```

```
lib > pages > ♠ about_page.dart > ⇔ AboutPage > ♦ build
     class AboutPage extends StatelessWidget {
       const AboutPage({super.key});
        @override
        Widget build(BuildContext context) {
          final Item item = ModalRoute.of(context)!.settings.arguments as Item; // Ambil argumen item
            appBar: AppBar(
             title: Text(item.name),
            ), // AppBar
            body: Padding(
              padding: const EdgeInsets.all(16.0),
              child: Column(
               crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                 Image.asset(
                   item.imageUrl,
                   height: 200,
                  ), // Image.asset
                 const SizedBox(height: 16.0),
                  item.name,
                   style: const TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
                  const SizedBox(height: 8.0),
                   'Detail tentang ${item.name}',
                   style: const TextStyle(fontSize: 18),
N2Mart
                            - 0 X
                     × +
← C ① localhost:54584/#/i... ② A ☆ ... 🥠
    Macaron
Macaron
Harga: Rp 5000
Stok: 10
Rating: 4.5
Detail
```