

**UJIAN TENGAH SEMESTER
PRAKTIK APLIKASI MOBILE**



Disusun oleh :

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**PS D-III TEKNIK INFORMATIKA
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1. Deskripsi Aplikasi

Aplikasi ini adalah aplikasi e-commerce sederhana yang dirancang menggunakan Flutter untuk menampilkan produk dari brand Uniqlo. Pengguna dapat masuk ke dalam aplikasi melalui halaman login dan melihat koleksi produk Uniqlo, seperti pakaian dan aksesoris. Aplikasi ini berfungsi untuk memperkenalkan produk Uniqlo serta memberikan antarmuka belanja sederhana yang dilengkapi dengan gambar, kategori produk, dan informasi singkat tentang produk yang ditawarkan.

Berikut adalah alur dan fitur utama aplikasi:

Halaman Login: Pengguna dapat memilih untuk masuk atau mendaftar.

Halaman Produk Utama: Setelah masuk, pengguna diarahkan ke halaman utama yang menampilkan produk populer seperti t-shirt, jaket, dan jeans.

Halaman Aksesoris: Pengguna dapat melihat aksesoris seperti topi, syal, kaos kaki, dan tas dengan cara menavigasi melalui tombol yang ada.

Navigasi Bawah (Bottom Navigation): Fitur navigasi di bagian bawah layar untuk berpindah antar halaman.

2. Code

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

```
void main() {  
  runApp(const LoginApp());  
}
```

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

```
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      debugShowCheckedModeBanner: false,  
      theme: ThemeData(  
        primaryColor: const Color(0xffff44336), // Warna merah  
        scaffoldBackgroundColor: Colors.white, // Warna latar belakang  
      ),  
      home: const LoginPage(),  
    );  
  }  
}
```

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

```
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      body: SingleChildScrollView(  
        child: Padding(  
          padding: const EdgeInsets.symmetric(horizontal: 24.0),  
          child: Column(  
            mainAxisAlignment: MainAxisAlignment.start,  
            crossAxisAlignment: CrossAxisAlignment.center,  
            children: [  
              const SizedBox(height: 50),  
              Align(  
                alignment: Alignment.topLeft,  
                child: Column(  
                  crossAxisAlignment: CrossAxisAlignment.start,  
                  children: [  
                    Image.network(  
                      'https://www.heddeels.com/wp-content/uploads/2018/05/2000px-UNIQLO_logo.svg_.png',  
                      height: 50,  
                    ),  
                    const SizedBox(height: 8),  
                    const Text(  
                      'Discover Quality, Style,\nAnd Comfort with  
Uniqlo\nEco-Friendly Fashion for Everyone',  
                      style: TextStyle(  
                        fontSize: 16,  
                        color: Colors.black,  
                      ),  
                    ),  
                  ],  
                ),  
              ),  
              const SizedBox(height: 50),  
              Image.network(  
                'https://www.heddeels.com/wp-content/uploads/2018/05/2000px-UNIQLO_logo.svg_.png',  
                height: 200,  
              ),  
            ],  
          ),  
        ),  
      ),  
    );  
  }  
}
```

```

const SizedBox(height: 50),
const Text(
  'Uniqlo: LifeWear for Everyone',
  style: TextStyle(
    fontSize: 30,
    fontWeight: FontWeight.bold,
    color: Colors.black,
  ),
  textAlign: TextAlign.center,
),
const SizedBox(height: 50),
ElevatedButton(
  onPressed: () {
    Navigator.push(
      context,
      MaterialPageRoute(builder: (context) => const
ItemPage()),
    );
  },
  style: ElevatedButton.styleFrom(
    backgroundColor: const Color(0xffff44336), // Tombol merah
    padding: const EdgeInsets.symmetric(vertical: 15),
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ),
  ),
  child: const SizedBox(
    width: double.infinity,
    child: Center(
      child: Text(
        'Log in',
        style: TextStyle(color: Colors.white, fontSize: 18),
      ),
    ),
  ),
),
const SizedBox(height: 20),
OutlinedButton(
  onPressed: () {},
  style: OutlinedButton.styleFrom(
    padding: const EdgeInsets.symmetric(vertical: 15),
    shape: RoundedRectangleBorder(

```

```

        borderRadius: BorderRadius.circular(8),
      ),
      side: const BorderSide(
        color: Color(0xffff44336)), // Border merah
    ),
    child: const SizedBox(
      width: double.infinity,
      child: Center(
        child: Text(
          'Sign up',
          style: TextStyle(color: Colors.black, fontSize: 18),
        ),
      ),
    ),
  ),
  const SizedBox(height: 50),
  const Text(
    'Copyright ©2024 Uniqlo',
    style: TextStyle(color: Colors.grey),
  ),
],
),
),
),
);
}
}

```

```

class ItemPage extends StatefulWidget {
  const ItemPage({super.key});

```

```

  @override
  _ItemPageState createState() => _ItemPageState();
}

```

```

class _ItemPageState extends State<ItemPage> {
  int _selectedIndex = 0;

```

```

  void _onItemTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      leading: IconButton(
        icon: const Icon(Icons.menu),
        onPressed: () {},
      ),
      title: const Text(
        'Uniqlo',
        style: TextStyle(color: Colors.white),
      ),
      backgroundColor: const Color(0xffff4433), // AppBar merah
      iconTheme: const IconThemeData(color: Colors.white),
      actions: [
        IconButton(
          icon: const Icon(Icons.person),
          onPressed: () {},
        ),
      ],
    ),
    body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          const Text(
            'Halo Sahabat Uniqlo,\nApa yang Anda cari hari ini?',
            style: TextStyle(
              fontSize: 18,
              fontWeight: FontWeight.bold,
              color: Colors.black),
          ),
          const SizedBox(height: 16),
          DropdownButtonFormField<String>(
            decoration: InputDecoration(
              filled: true,
              fillColor: Colors.grey[200],
              border: OutlineInputBorder(
                borderRadius: BorderRadius.circular(8),
              ),
            ),
          ),
        ],
      ),
    ),
  );
}

```

```

        items: const [
          DropdownMenuItem(
            value: 'Lokasi Toko',
            child: Text('Lokasi Toko'),
          ),
        ],
        onChanged: (value) {},
      ),
      const SizedBox(height: 16),
      TextField(
        style: const TextStyle(color: Colors.black),
        decoration: InputDecoration(
          hintText: 'Cari Item',
          hintStyle: const TextStyle(color: Colors.black54),
          prefixIcon: const Icon(Icons.search, color: Colors.black),
          filled: true,
          fillColor: const Color(0xffff44336), // Latar belakang merah
          border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(8),
          ),
        ),
      ),
    ),
    const SizedBox(height: 20),
    Row(
      mainAxisAlignment: MainAxisAlignment.spaceEvenly,
      children: [
        ElevatedButton(
          onPressed: () {},
          style: ElevatedButton.styleFrom(
            backgroundColor: const Color(0xffff44336), // Tombol
            padding: const EdgeInsets.symmetric(
              horizontal: 24, vertical: 16),
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(8),
            ),
          ),
          child: const Text(
            'Pakaian Pria',
            style: TextStyle(color: Colors.white),
          ),
        ),
      ],
    ),
  ),

```

merah

```
ElevatedButton(  
  onPressed: () {  
    Navigator.push(  
      context,  
      MaterialPageRoute(  
        builder: (context) => const Aksesoris()),  
    );  
  },  
  style: ElevatedButton.styleFrom(  
    backgroundColor: const Color(0xffff44336), // Tombol  
    padding: const EdgeInsets.symmetric(  
      horizontal: 24, vertical: 16),  
    shape: RoundedRectangleBorder(  
      borderRadius: BorderRadius.circular(8),  
    ),  
  ),  
  child: const Text(  
    'Aksesoris',  
    style: TextStyle(color: Colors.white),  
  ),  
),  
],  
,  
const SizedBox(height: 20),  
const Text(  
  'BEST SELLER',  
  style: TextStyle(  
    fontSize: 18,  
    fontWeight: FontWeight.bold,  
    color: Colors.black),  
,  
const SizedBox(height: 16),  
Expanded(  
  child: GridView.count(  
    crossAxisCount: 2,  
    crossAxisSpacing: 16,  
    mainAxisSpacing: 16,  
    children: [  
      _buildItemCard('UT Graphic T-Shirt',  
        'https://image.uniqlo.com/UQ/ST3/WesternCommon/images  
goods/462439/sub/goods_462439_sub14.jpg?width=2000'),
```

merah


```

        _buildItemCard('Men\'s Ultra Light Down Jacket',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/409323/item/goods_09_409323.jpg?width=2000'),
        _buildItemCard('Men\'s Airism T-Shirt',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/423527/item/goods_09_423527.jpg?width=2000'),
        _buildItemCard('Men\'s Slim Fit Jeans',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/412623/item/goods_66_412623.jpg?width=2000'),
    ],
),
),
],
),
),
bottomNavigationBar: BottomNavigationBar(
  items: const <BottomNavigationBarItem>[
    BottomNavigationBarItem(
      icon: Icon(Icons.home),
      label: 'Home',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.new_releases),
      label: 'New',
    ),
    BottomNavigationBarItem(
      icon: Icon(Icons.local_offer),
      label: 'Promo',
    ),
  ],
  currentIndex: _selectedIndex,
  selectedItemColor: const Color(0xffff44336), // Warna item terpilih
  unselectedItemColor: Colors.grey,
  onTap: _onItemTapped,
),
);
}

```

```

Widget _buildItemCard(String name, String imageUrl) {
  return Card(
    elevation: 2,
    shape: RoundedRectangleBorder(

```

```

        borderRadius: BorderRadius.circular(8),
      ),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Expanded(
            child: ClipRRect(
              borderRadius: BorderRadius.circular(8),
              child: Image.network(imageUrl, fit: BoxFit.cover),
            ),
          ),
          Padding(
            padding: const EdgeInsets.all(8.0),
            child: Text(
              name,
              style: const TextStyle(fontSize: 16, fontWeight:
FontWeight.bold),
            ),
          ),
        ],
      ),
    );
  }
}

```

```

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

```

```

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Aksesoris'),
        backgroundColor: const Color(0xffff44336), // AppBar merah
      ),
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            const Text(
              'Aksesoris Terbaru',
              style: TextStyle(

```

```

        fontSize: 18,
        fontWeight: FontWeight.bold,
        color: Colors.black),
    ),
    const SizedBox(height: 16),
    Expanded(
      child: GridView.count(
        crossAxisCount: 2,
        crossAxisSpacing: 16,
        mainAxisSpacing: 16,
        children: [
          _buildAccessoryCard('Men\'s Cap',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/445077001/item/goods_08_445077001.jpg'),
          _buildAccessoryCard('Women\'s Scarf',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/450229/item/goods_67_450229.jpg'),
          _buildAccessoryCard('Men\'s Socks',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/416316/item/goods_17_416316.jpg?width=2000'),
          _buildAccessoryCard('Women\'s Handbag',
            'https://image.uniqlo.com/UQ/ST3/WesternCommon/images
goods/435044/item/goods_30_435044.jpg?width=2000'),
        ],
      ),
    ),
  ],
),
);
}

```

```

Widget _buildAccessoryCard(String name, String imageUrl) {
  return Card(
    elevation: 2,
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Expanded(
          child: ClipRRect(

```

```

        borderRadius: BorderRadius.circular(8),
        child: Image.network(imageUrl, fit: BoxFit.cover),
      ),
    ),
    Padding(
      padding: const EdgeInsets.all(8.0),
      child: Text(
        name,
        style: const TextStyle(fontSize: 16, fontWeight:
FontWeight.bold),
      ),
    ),
  ],
),
);
}
}

```

3. Penjelasan Code

1. LoginApp Class

```

class LoginApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      theme: ThemeData(
        primaryColor: const Color(0xffff44336),
        scaffoldBackgroundColor: Colors.white,
      ),
      home: const LoginPage(),
    );
  }
}

```

- LoginApp adalah widget utama yang berfungsi untuk mengatur MaterialApp dengan tema dan pengaturan warna tertentu (merah khas Uniqlo).
- Aplikasi ini tidak menampilkan label debug dengan debugShowCheckedModeBanner: false

2. LoginPage Class

```

class LoginPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SingleChildScrollView(
        child: Padding(
          padding: const EdgeInsets.symmetric(horizontal: 24.0),
          child: Column(
            children: [
              // Logo dan deskripsi
              Image.network('URL_LOGO_UNIQLO'),
              Text('Discover Quality, Style...'),
              // Tombol Login
              ElevatedButton(onPressed: () {...}),
              // Tombol Sign up
              OutlinedButton(onPressed: () {...}),
            ],
          ),
        ),
      ),
    );
  }
}

```

- Halaman login berisi logo Uniqlo, slogan, dan dua tombol yaitu Log in dan Sign up.
- Tombol Log in akan menavigasi pengguna ke halaman ItemPage, sementara Sign up belum dihubungkan dengan fungsi apapun.

3. ItemPage Class

```

class ItemPage extends StatefulWidget {
  @override
  _ItemPageState createState() => _ItemPageState();
}

class _ItemPageState extends State<ItemPage> {
  int _selectedIndex = 0;

  void _onItemTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }
}

```

```

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('Uniqlo'),
      backgroundColor: const Color(0xffff44336),
    ),
    body: Column(
      children: [
        // Dropdown dan Search Bar
        DropdownButtonFormField<String>(
          decoration: InputDecoration(...),
          items: [...],
        ),
        TextField(
          decoration: InputDecoration(
            hintText: 'Cari Item',
          ),
        ),
        // Grid Produk
        Expanded(
          child: GridView.count(
            crossAxisCount: 2,
            children: [
              _buildItemCard('Nama Produk', 'URL_IMAGE'),
            ],
          ),
        ),
      ],
    ),
    bottomNavigationBar: BottomNavigationBar(
      items: [...],
      currentIndex: _selectedIndex,
      onTap: _onItemTapped,
    ),
  );
}

```

Halaman ini menampilkan:

- AppBar dengan judul aplikasi dan ikon profil.
- Dropdown dan Search Bar untuk mencari atau memilih produk.
- Grid Produk yang menampilkan item seperti t-shirt, jaket, dan jeans.

- BottomNavigationBar yang digunakan untuk berpindah antar halaman (home, promo, dan produk baru).

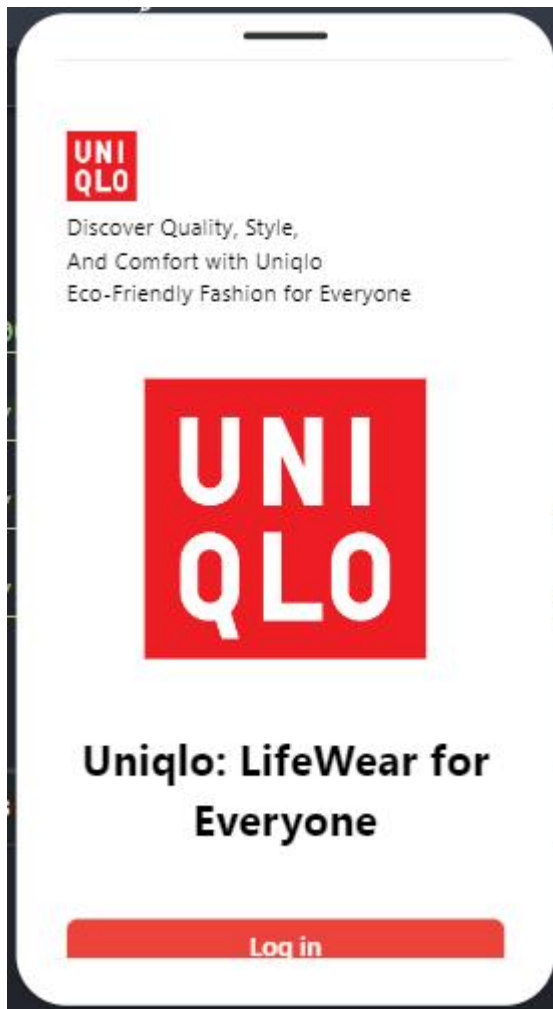
4. Aksesoris Class

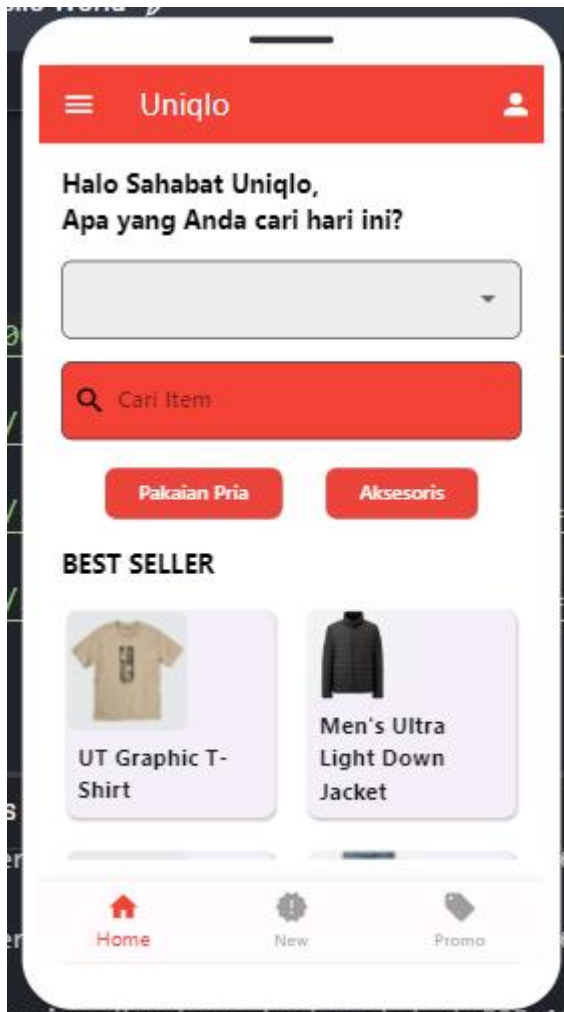
```
class Aksesoris extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(title: Text('Aksesoris')),  
      body: Column(  
        children: [  
          // Grid Aksesoris  
          Expanded(  
            child: GridView.count(  
              crossAxisCount: 2,  
              children: [  
                _buildAccessoryCard('Nama Aksesoris', 'URL_IMAGE'),  
              ],  
            ),  
          ],  
        ),  
      );  
    }  
  }  
}
```

- Halaman ini menampilkan produk Aksesoris dalam bentuk grid, seperti topi dan syal.

4. Screenshot Hasil Program

Hal 1





Hal 3

