

**TUGAS PENDAHULUAN
PEMROGRAMAN PERANGKAT BERGERAK**

**MODUL VII
NAVIGASI DAN NOTIFIKASI**



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PROGRAM STUDI S1 SOFTWARE ENGINEERING

FAKULTAS INFORMATIKA

TELKOM UNIVERSITY PURWOKERTO

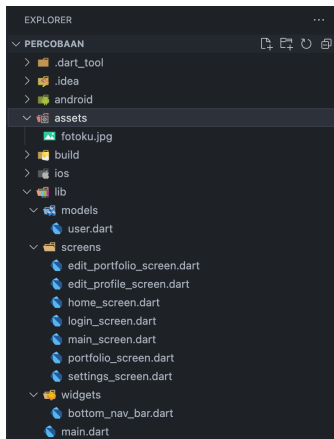
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TUGAS PENDAHULUAN

A. SOAL NOMOR 1

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

Struktur File:



Source code

main.dart

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

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

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

user.dart

```
class User {  
  String name;  
  String description;  
  String contact;  
  
  User({  
    required this.name,  
    this.description = "",  
    this.contact = "",  
  });  
}
```

login_screen.dart

```
import 'package:flutter/material.dart';  
import 'main_screen.dart';  
import '../models/user.dart';  
  
class LoginScreen extends StatelessWidget {  
  final TextEditingController _nameController = TextEditingController();  
  final TextEditingController _passwordController = TextEditingController();  
  
  void _login(BuildContext context) {  
    String name = _nameController.text;  
    String password = _passwordController.text;  
  
    if (name.isNotEmpty && password == '112233') {  
      User user = User(name: name);  
  
      Navigator.pushReplacement(  
        context,  
        MaterialPageRoute(builder: (context) => MainScreen(user: user)),  
      );  
    } else {  
      ScaffoldMessenger.of(context).showSnackBar(  
        SnackBar(content: Text('Username atau password salah')),  
      );  
    }  
  }  
}  
  
@override  
Widget build(BuildContext context) {  
  return Scaffold(  
    body: Center(  
      child: Padding(  
        padding: const EdgeInsets.all(16.0),  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            TextField(  
              controller: _nameController,  
              decoration: InputDecoration(labelText: 'Name'),  

```

```

    ),
    TextField(
      controller: _passwordController,
      decoration: InputDecoration(labelText: 'Password'),
      obscureText: true,
    ),
    SizedBox(height: 20),
    ElevatedButton(
      onPressed: () => _login(context),
      child: Text('Login'),
    ),
  ],
),
),
),
);
}
}

```

main_screen.dart

```

import 'package:flutter/material.dart';
import 'home_screen.dart';
import 'portfolio_screen.dart';
import 'settings_screen.dart';
import '../models/user.dart';
import '../widgets/bottom_nav_bar.dart';

class MainScreen extends StatefulWidget {
  final User user;

  MainScreen({required this.user});

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

class _MainScreenState extends State<MainScreen> {
  int _selectedIndex = 0;

  late final List<Widget> _pages;

  @override
  void initState() {
    super.initState();
    _pages = [
      HomeScreen(user: widget.user),
      PortfolioScreen(),
      SettingsScreen(user: widget.user),
    ];
  }

  void _onItemTapped(int index) {
    setState() {

```

```

        _selectedIndex = index;
    });
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    body: IndexedStack(
      index: _selectedIndex,
      children: _pages,
    ),
    bottomNavigationBar: BottomNavBar(
      currentIndex: _selectedIndex,
      onTap: _onItemTapped,
    ),
  );
}
}

```

home_screen.dart

```

import 'package:flutter/material.dart';
import '../models/user.dart';

class HomeScreen extends StatelessWidget {
  final User user;

  HomeScreen({required this.user});

  @override
  Widget build(BuildContext context) {
    return Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          CircleAvatar(
            radius: 50,
            backgroundImage: AssetImage('/assets/fotoku.jpg'),
          ),
          SizedBox(height: 10),
          Text(
            user.name,
            style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
          ),
          Text(user.description),
          TextButton(
            onPressed: () {
              // Kontak via WhatsApp
            },
            child: Text("Contact via WhatsApp"),
          ),
        ],
      ),
    );
  }
}

```

```

    );
  }
}

```

portfolio_screen.dart

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

```

class PortfolioScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Center(
      child: Text("Portfolio Page"),
    );
  }
}

```

settings_screen.dart

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

```
import '../models/user.dart';
```

```
import 'login_screen.dart';
```

```
import 'edit_profile_screen.dart';
```

```
import 'edit_portfolio_screen.dart';
```

```

class SettingsScreen extends StatelessWidget {
  final User user;

```

```
  SettingsScreen({required this.user});
```

```
  @override
```

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

```
    return ListView(
```

```
      children: [
```

```
        ListTile(
```

```
          title: Text("Edit Profile"),
```

```
          onTap: () async {
```

```
            final updatedUser = await Navigator.push(
```

```
              context,
```

```
              MaterialPageRoute(
```

```
                builder: (context) => EditProfileScreen(user: user),
```

```
            ),
```

```
          );
```

```
          if (updatedUser != null) {
```

```
            // Update data pengguna di sini
```

```
          }
```

```
        },
```

```
      ),
```

```
      ListTile(
```

```
        title: Text("Edit Portfolio"),
```

```
        onTap: () {
```

```
          Navigator.push(
```

```
            context,
```

```

        MaterialPageRoute(
          builder: (context) => EditPortfolioScreen(),
        ),
      );
    },
  ),
  ListTile(
    title: Text("Logout"),
    onTap: () {
      Navigator.pushReplacement(
        context,
        MaterialPageRoute(builder: (context) => LoginScreen()),
      );
    },
  ),
],
);
}
}

```

edit_profile_screen.dart

```

import 'package:flutter/material.dart';
import '../models/user.dart';

```

```

class EditProfileScreen extends StatefulWidget {
  final User user;

```

```

  EditProfileScreen({required this.user});

```

```

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

```

```

class _EditProfileScreenState extends State<EditProfileScreen> {
  late TextEditingController _nameController;
  late TextEditingController _descriptionController;
  late TextEditingController _contactController;

```

```

  @override
  void initState() {
    super.initState();
    _nameController = TextEditingController(text: widget.user.name);
    _descriptionController = TextEditingController(text: widget.user.description);
    _contactController = TextEditingController(text: widget.user.contact);
  }

```

```

  @override
  void dispose() {
    _nameController.dispose();
    _descriptionController.dispose();
    _contactController.dispose();
    super.dispose();
  }

```

```

    }

    void _saveProfile() {
      setState() {
        widget.user.name = _nameController.text;
        widget.user.description = _descriptionController.text;
        widget.user.contact = _contactController.text;
      });

      Navigator.pop(context, widget.user);
    }

    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(title: Text("Edit Profile")),
        body: Padding(
          padding: const EdgeInsets.all(16.0),
          child: Column(
            children: [
              TextField(
                controller: _nameController,
                decoration: InputDecoration(labelText: "Name"),
              ),
              TextField(
                controller: _descriptionController,
                decoration: InputDecoration(labelText: "Description"),
              ),
              TextField(
                controller: _contactController,
                decoration: InputDecoration(labelText: "Contact"),
              ),
              SizedBox(height: 20),
              ElevatedButton(
                onPressed: _saveProfile,
                child: Text("Save"),
              ),
            ],
          ),
        ),
      );
    }
  }
}

```

edit_portfolio_screen.dart

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

```

class EditPortfolioScreen extends StatefulWidget {
  @override
  _EditPortfolioScreenState createState() => _EditPortfolioScreenState();
}

```



```

class _EditPortfolioScreenState extends State<EditPortfolioScreen> {
  final List<String> _portfolioItems = ["Project A", "Project B"];

  void _addPortfolioItem() {
    setState(() {
      _portfolioItems.add("New Project");
    });
  }

  void _editPortfolioItem(int index) {
    setState(() {
      _portfolioItems[index] = "Edited Project";
    });
  }

  void _removePortfolioItem(int index) {
    setState(() {
      _portfolioItems.removeAt(index);
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("Edit Portfolio")),
      body: ListView.builder(
        itemCount: _portfolioItems.length,
        itemBuilder: (context, index) {
          return ListTile(
            title: Text(_portfolioItems[index]),
            trailing: Row(
              mainAxisAlignment: MainAxisAlignment.min,
              children: [
                IconButton(
                  icon: Icon(Icons.edit),
                  onPressed: () => _editPortfolioItem(index),
                ),
                IconButton(
                  icon: Icon(Icons.delete),
                  onPressed: () => _removePortfolioItem(index),
                ),
              ],
            ),
          );
        },
      ),
      floatingActionButton: FloatingActionButton(
        onPressed: _addPortfolioItem,
        child: Icon(Icons.add),
      ),
    );
  }
}

```

bottom_nav_bar.dart

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

```
class BottomNavBar extends StatelessWidget {  
  final int currentIndex;  
  final Function(int) onTap;
```

```
  BottomNavBar({required this.currentIndex, required this.onTap});
```

```
  @override
```

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

```
    return BottomNavigationBar(  
      currentIndex: currentIndex,
```

```
      onTap: onTap,
```

```
      items: const [
```

```
        BottomNavigationBarItem(  
          icon: Icon(Icons.home),
```

```
          label: "Home",
```

```
        ),
```

```
        BottomNavigationBarItem(  
          icon: Icon(Icons.work),
```

```
          label: "Portfolio",
```

```
        ),
```

```
        BottomNavigationBarItem(  
          icon: Icon(Icons.settings),
```

```
          label: "Settings",
```

```
        ),
```

```
      ],
```

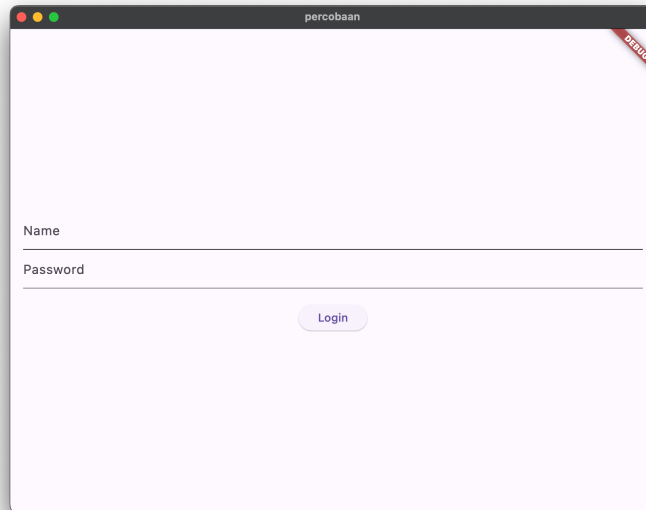
```
    );
```

```
  }
```

```
}
```

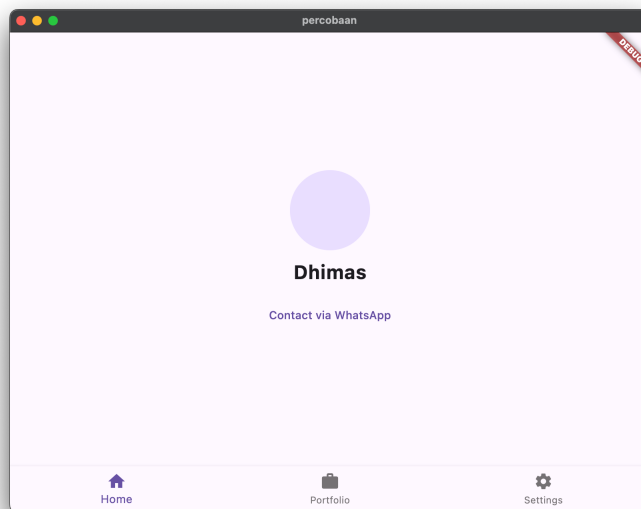
Screenshoot Output

Login

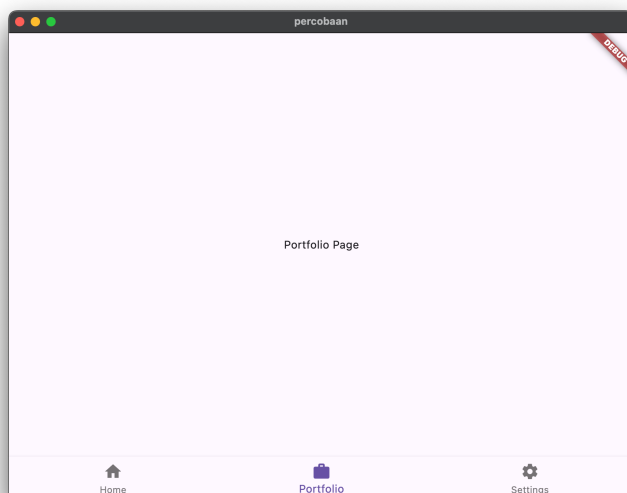


A screenshot of a login screen within a mobile application window titled "percobaan". The screen has a light pink background. In the top right corner, there is a red diagonal banner with the word "demo" in white. The login form consists of two text input fields: the first is labeled "Name" and the second is labeled "Password". Below these fields is a rounded rectangular button with the text "Login".

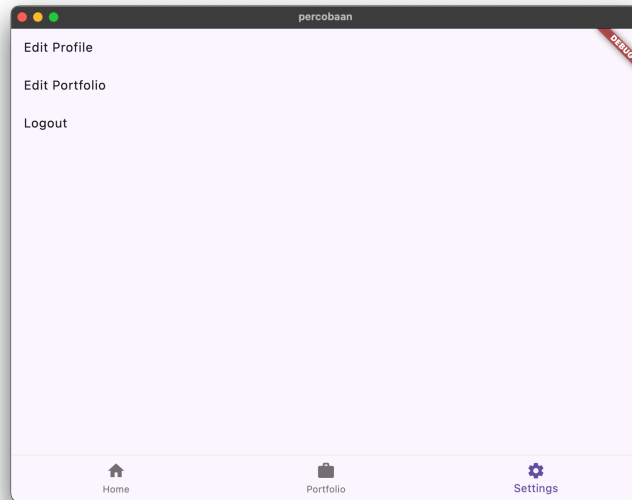
home



portfolio



settings



Deskripsi Program

Ini adalah sebuah aplikasi sederhana, yang diawali dengan login memasukkan username dan password, lalu ada menu home, portfolio dan settings.