LAPORAN UJIAN TENGAH SEMESTER

MATA KULIAH PRAKTIKUM PEMROGRAMAN MOBILE

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JURUSAN TEKNOLOGI INFORMASI

PROGRAM STUDI D-4 SISTEM INFORMASI BISNIS

POLITEKNIK NEGERI MALANG
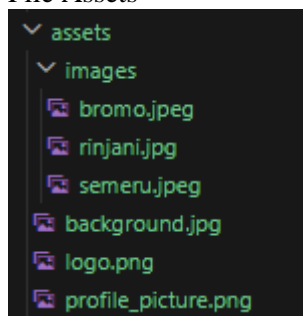
MALANG

2024

1. **Landing Page**
Main.dart

```dart
import 'package:flutter/material.dart';
import 'screens/landing_page.dart';
import 'screens/login_page.dart';
import 'screens/home_page.dart';
import 'screens/about_page.dart';
import 'screens/profile_page.dart';


void main() => runApp(MyApp());

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'SIMAKSI',
      theme: ThemeData(primarySwatch: Colors.blue),
      initialRoute: '/',
      routes: {
        '/': (context) => LandingPage(),
        '/login': (context) => LoginPage(),
        '/home': (context) => HomePage(),
        '/about': (context) => AboutPage(),
        '/profile': (context) => ProfilePage(),
      },
    ); // MaterialApp


  }

}
```
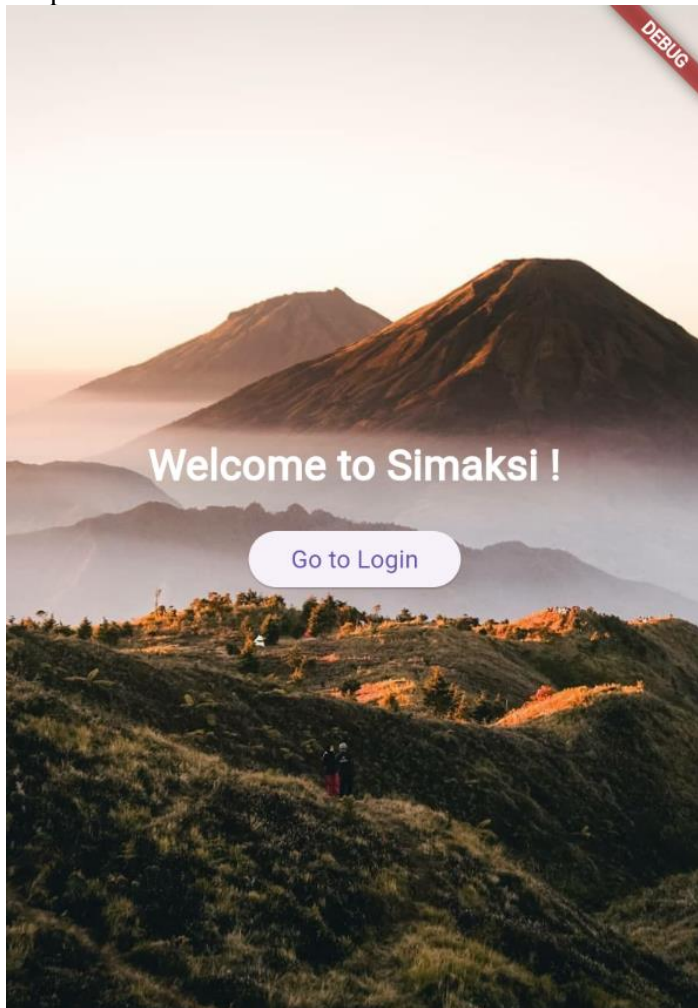
File Assets

```
∨ assets
  ∨ images
    bromo.jpeg
    rinjani.jpg
    semeru.jpeg
  background.jpg
  logo.png
  profile_picture.png
```

Landingpage.dart

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

class LandingPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
        decoration: BoxDecoration(
          image: DecorationImage(
            image: AssetImage('assets/background.jpg'), // Make sure to add your image in the assets folder
            fit: BoxFit.cover,
          ), // DecorationImage
        ), // BoxDecoration
        child: Center(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              Text(
                'Welcome to Simaksi !',
                style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold, color: Colors.white), // Change text color for visibility
              ), // Text
              SizedBox(height: 20), // Adds some space between the text and the button
              ElevatedButton(
                onPressed: () {
                  Navigator.pushNamed(context, '/login');
                },
                child: Text('Go to Login'),
              ), // ElevatedButton
            ],
          ), // Column
        ), // Center
      ), // Container
    ); // Scaffold
  }
}
```

Output

2. **Login Page**

Loginpage.dart

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

class LoginPage extends StatefulWidget {
  @override
  _LoginPageState createState() => _LoginPageState();
}

class _LoginPageState extends State<LoginPage> {
  final TextEditingController _usernameController = TextEditingController();
  final TextEditingController _passwordController = TextEditingController();
  String _errorMessage = '';

  void _login() {
    String username = _usernameController.text;
    String password = _passwordController.text;

    if (username == 'Liya' && password == 'liya123') {
      Navigator.pushNamed(context, '/home', arguments: username);
    } else {
      setState(() {
        _errorMessage = 'Incorrect username or password';
      });
    }
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('Login Page')),
      backgroundColor: const Color.fromARGB(255, 214, 211, 211), // Set background to light grey
      body: Center(
        child: SingleChildScrollView(
          child: Padding(
            padding: const EdgeInsets.all(16.0),
            child: Column(
              mainAxisAlignment: MainAxisAlignment.center, // Center content vertically
              crossAxisAlignment: CrossAxisAlignment.center, // Center content horizontally
              children: <Widget>[
                // Container untuk menambahkan bentuk di sekeliling logo
                Container(
                  decoration: BoxDecoration(
                    borderRadius: BorderRadius.circular(15), // Membuat sudut membulat
                    border: Border.all(color: Colors.black, width: 2), // Border hitam
                    boxShadow: [
                      BoxShadow(
                        color: Colors.grey.withOpacity(0.5),
                        spreadRadius: 5,
                        blurRadius: 7,
                        offset: Offset(0, 3), // Memberi efek bayangan
                      ), // BoxShadow
```

```dart
            ), // BoxDecoration
            padding: EdgeInsets.all(10), // Padding di sekitar gambar
            child: Image.asset(
              'assets/logo.png', // Update with your image asset path
              height: 200,
            ), // Image.asset
          ), // Container
          SizedBox(height: 20),
          // Kotak untuk TextField Username
          Container(
            width: 300, // Set fixed width to align fields
            child: TextField(
              controller: _usernameController,
              decoration: InputDecoration(
                labelText: 'Username',
                labelStyle: TextStyle(color: Colors.black), // Change label color
                border: OutlineInputBorder(
                  borderRadius: BorderRadius.circular(10),
                  borderSide: BorderSide(color: Colors.black, width: 1),
                ), // OutlineInputBorder
                prefixIcon: Icon(Icons.person, color: Colors.black), // Add user icon
              ), // InputDecoration
              style: TextStyle(color: Colors.black), // Text color
            ), // TextField
          ), // Container
          SizedBox(height: 10),
          // Kotak untuk TextField Password
          Container(
            width: 300, // Set fixed width to align fields
            child: TextField(
              controller: _passwordController,
              decoration: InputDecoration(
                labelText: 'Password',
                labelStyle: TextStyle(color: Colors.black), // Change label color
                border: OutlineInputBorder(
                  borderRadius: BorderRadius.circular(10),
                  borderSide: BorderSide(color: Colors.black, width: 1),
                ), // OutlineInputBorder
                prefixIcon: Icon(Icons.lock, color: Colors.black), // Add lock icon
              ), // InputDecoration
              obscureText: true,
              style: TextStyle(color: Colors.black), // Text color
            ), // TextField
          ), // Container
          SizedBox(height: 20),
          // Tombol Login tanpa container
          ElevatedButton(
            onPressed: _login,
            ), // Container
            SizedBox(height: 20),
            // Tombol Login tanpa container
            ElevatedButton(
              onPressed: _login,
              child: Padding(
                padding: const EdgeInsets.symmetric(vertical: 15.0), // Padding vertikal tombol
                child: Text('Login'),
              ), // Padding
            ), // ElevatedButton
            if (_errorMessage.isNotEmpty)
              Padding(
                padding: const EdgeInsets.all(8.0),
                child: Text(
                  _errorMessage,
                  style: TextStyle(color: Colors.red),
                ), // Text
              ), // Padding
          ], // <Widget>[]
        ), // Column
      ), // Padding
    ), // SingleChildScrollView
  ), // Center
); // Scaffold
}
}
```

3. Home Page
Homepage.dart

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

class HomePage extends StatefulWidget {
  @override
  _HomePageState createState() => _HomePageState();
}

class _HomePageState extends State<HomePage> {
  @override
  Widget build(BuildContext context) {
    final String username = ModalRoute.of(context)?.settings.arguments as String;

    return Scaffold(
      appBar: AppBar(
        title: Text('Mountain Ticket Sales'),
        actions: [
          // Ikon Profil
          Container(
            margin: EdgeInsets.only(right: 16.0),
            child: IconButton(
              icon: Icon(Icons.person, size: 30),
              tooltip: 'Go to Profile',
              onPressed: () {
                Navigator.pushNamed(context, '/profile', arguments: username);
              },
            ), // IconButton
          ), // Container
          // Ikon About
          Container(
            margin: EdgeInsets.only(right: 16.0),
            child: IconButton(
              icon: Icon(Icons.info, size: 30),
              tooltip: 'Go to About',
              onPressed: () {
                Navigator.pushNamed(context, '/about');
              },
            ), // IconButton
          ), // Container
        ],
      ), // AppBar
      body: Center(
        child: SingleChildScrollView(
          padding: const EdgeInsets.all(16.0),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: <Widget>[
              Text('Welcome, $username!', style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold)),
              SizedBox(height: 20),
              Text('Available Mountain Tickets', style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold)),
```

```dart
          children: <Widget>[
            Text('Welcome, $username!', style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold)),
            SizedBox(height: 20),
            Text('Available Mountain Tickets', style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold)),
            SizedBox(height: 10),

            // Tiket 1: Mount Rinjani
            _buildTicketCard(context, 'Mount Rinjani', 200000, 'assets/images/rinjani.jpg'),

            // Tiket 2: Mount Bromo
            _buildTicketCard(context, 'Mount Bromo', 150000, 'assets/images/bromo.jpeg'),

            // Tiket 3: Mount Semeru
            _buildTicketCard(context, 'Mount Semeru', 170000, 'assets/images/semeru.jpeg'),
          ], // <Widget>[]
        ), // Column
      ), // SingleChildScrollView
    ), // Center
  ); // Scaffold
}

// Fungsi untuk menampilkan pesan "tiket dibeli"
void _buyNow(String mountainName) {
  ScaffoldMessenger.of(context).showSnackBar(
    SnackBar(content: Text('You have successfully bought a ticket for $mountainName!')),
  );
}

// Fungsi untuk membangun kartu tiket dengan gambar
Widget _buildTicketCard(BuildContext context, String mountainName, double price, String imagePath) {
  return Container(
    padding: EdgeInsets.all(10),
    margin: EdgeInsets.only(bottom: 10),
    decoration: BoxDecoration(
      borderRadius: BorderRadius.circular(10),
      border: Border.all(color: Colors.black, width: 1),
      color: Colors.white,
      boxShadow: [BoxShadow(color: Colors.grey, blurRadius: 5)],
    ), // BoxDecoration
    child: Column(
      children: [
        Image.asset(
          imagePath,
          height: 150, // Sesuaikan tinggi gambar
          width: double.infinity, // Gambar melebar penuh
          fit: BoxFit.cover, // Memastikan gambar pas di kotak
        ), // Image.asset
        SizedBox(height: 10),
        Text(mountainName, style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold)),
        Text('Price: Rp ${price.toString()}', style: TextStyle(fontSize: 16)),
        ElevatedButton(
          onPressed: () {
            _buyNow(mountainName); // Menampilkan pesan bahwa tiket telah dibeli
          },
          child: Text('Buy Now'),
        ), // ElevatedButton
      ],
    ), // Column
  ); // Container
```
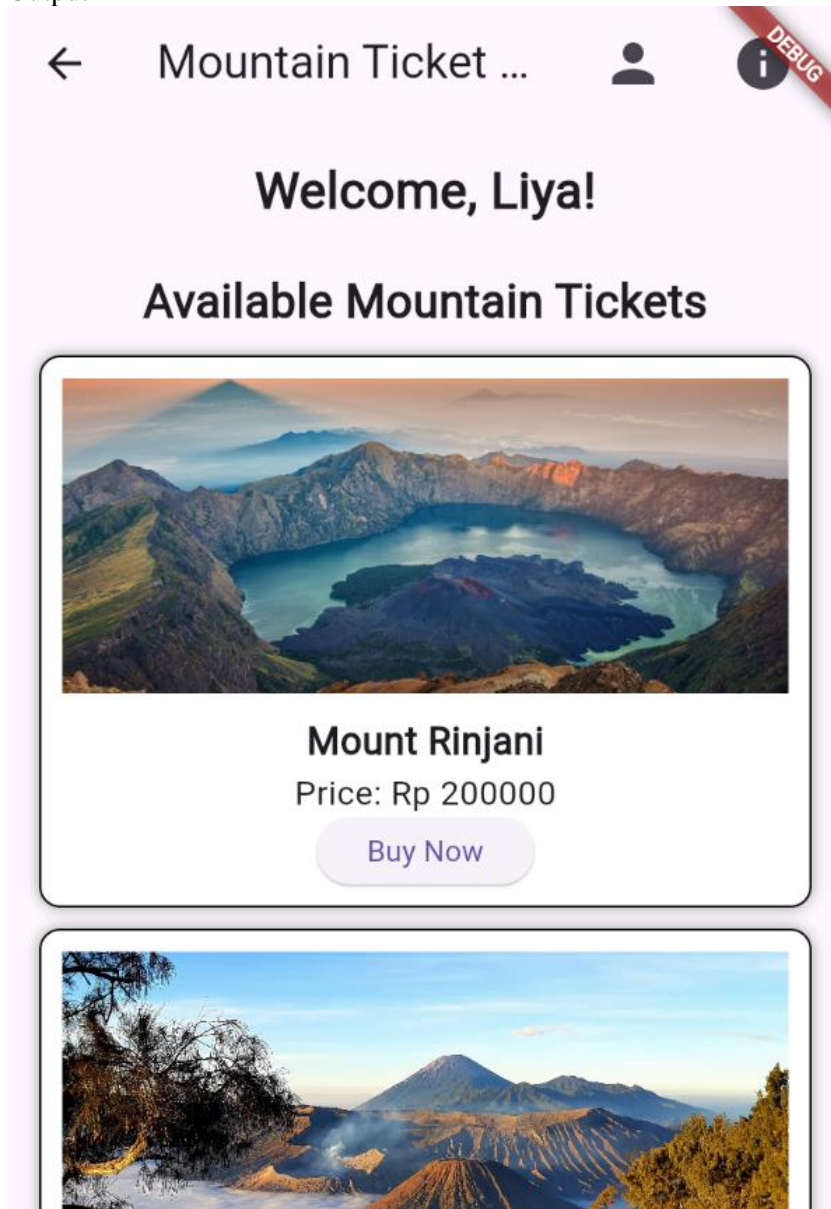
Output

4. **About Page**

Aboutpage.dart

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

class AboutPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('About Page')),
      backgroundColor: Color.fromARGB(255, 214, 211, 211), // Warna background halaman
      body: Column(
        mainAxisAlignment: MainAxisAlignment.start, // Atur agar konten mulai dari atas
        crossAxisAlignment: CrossAxisAlignment.center, // Pusatkan secara horizontal
        children: [
          SizedBox(height: 20), // Memberi jarak dari AppBar
          Text(
            'SIMAKSI App',
            style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),
          ), // Text
          SizedBox(height: 20), // Memberi jarak antara judul dan deskripsi
          Padding(
            padding: const EdgeInsets.all(16.0), // Memberi padding agar tidak menempel di pinggir layar
            child: Text(
              'SIMAKSI (Sistem Perizinan Masuk Kawasan Konservasi) adalah sebuah aplikasi yang dirancang untuk memudahkan proses perizinan bagi masyarakat yang ingin memasuki kawasan konservasi, seperti taman nasional, cagar
              textAlign: TextAlign.center, // Pusatkan teks secara horizontal
            ), // Text
          ), // Padding
        ],
      ), // Column
    ); // Scaffold
  }
}
```

Output

DEBUG

SIMAKSI App

SIMAKSI (Sistem Perizinan Masuk Kawasan Konservasi) adalah sebuah aplikasi yang dirancang untuk memudahkan proses perizinan bagi masyarakat yang ingin memasuki kawasan konservasi, seperti taman nasional, cagar alam, atau area perlindungan lainnya. Aplikasi ini bertujuan untuk mengatur dan memonitor aktivitas di kawasan konservasi guna menjaga kelestarian lingkungan dan mencegah kerusakan ekosistem.

5. Profile Page

Profilepage.dart

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

class ProfilePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    final String username = ModalRoute.of(context)?.settings.arguments as String? ?? 'Guest';

    return Scaffold(
      appBar: AppBar(title: Text('Profile Page')),
      backgroundColor: Color.fromARGB(255, 214, 211, 211), // Warna coklat muda (tan)
      body: Center(
        child: Padding(
          padding: const EdgeInsets.all(16.0),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.center,
            crossAxisAlignment: CrossAxisAlignment.center,
            children: <Widget>[
              // Foto Profil dengan ClipOval untuk memastikan gambar full
              ClipOval(
                child: Image.asset(
                  'assets/profile_picture.png', // Ganti dengan asset foto profil kamu
                  width: 100,
                  height: 100,
                  fit: BoxFit.cover, // Mengatur agar gambar menutupi area lingkaran
                ), // Image.asset
              ), // ClipOval
              SizedBox(height: 20),
              // Teks selamat datang
              Text(
                'Welcome to your profile!',
                style: TextStyle(fontSize: 13, fontStyle: FontStyle.italic),
              ), // Text
              SizedBox(height: 8),
              // Nama
              Text(
                '$username',
                style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold),
              ), // Text
              SizedBox(height: 10),
              // Email dengan Icon
              Row(
                mainAxisAlignment: MainAxisAlignment.center, // Center Row
                children: [
                  Icon(Icons.email, color: Colors.black), // Ikon email
                  SizedBox(width: 10),
                  Text(
                    '$username@gmail.com', // Ganti dengan email dinamis sesuai kebutuhan
                    style: TextStyle(fontSize: 16),
                  ), // Text
                ],
              ), // Row
              SizedBox(height: 10),
              // Phone Number dengan Icon
              Row(
                mainAxisAlignment: MainAxisAlignment.center, // Center Row
                children: [
                  Icon(Icons.phone, color: Colors.black), // Ikon telepon
                  SizedBox(width: 10),
                  Text(
                    '+62 812 3456 7890', // Ganti dengan nomor telepon dinamis sesuai kebutuhan
                    style: TextStyle(fontSize: 16),
```

```
            SizedBox(height: 30),
            // Tombol Logout
            ElevatedButton(
              onPressed: () {
                Navigator.pushNamedAndRemoveUntil(context, '/', (route) => false);
              },
              child: Text('Logout'),
              style: ElevatedButton.styleFrom(
                padding: EdgeInsets.symmetric(horizontal: 40, vertical: 15),
              ),
            ), // ElevatedButton
          ], // <Widget>[]
        ), // Column
      ), // Padding
    ), // Center
  ); // Scaffold
  }
}
```

Output