import 'package:flutter/material.dart';

import 'package:shared\_preferences/shared\_preferences.dart';

// Data Model for a Transaction

class Transaction {

String description;

double amount;

String category;

DateTime date;

Transaction({required this.description, required this.amount, required this.category, required this.date});

}

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

class MyApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

title: 'Personal Finance Tracker',

home: LoginScreen(),

);

}

}

// Login Screen

class LoginScreen extends StatefulWidget {

@override

\_LoginScreenState createState() => \_LoginScreenState();

}

class \_LoginScreenState extends State<LoginScreen> {

final \_formKey = GlobalKey<FormState>();

String \_username = '';

String \_password = '';

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: Text('Login'),

),

body: Form(

key: \_formKey,

child: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

children: [

TextFormField(

decoration: InputDecoration(labelText: 'Username'),

validator: (value) {

if (value == null || value.isEmpty) {

return 'Please enter a username';

}

return null;

},

onSaved: (value) => \_username = value!,

),

TextFormField(

decoration: InputDecoration(labelText: 'Password'),

obscureText: true,

validator: (value) {

if (value == null || value.isEmpty) {

return 'Please enter a password';

}

return null;

},

onSaved: (value) => \_password = value!,

),

ElevatedButton(

onPressed: () {

if (\_formKey.currentState!.validate()) {

\_formKey.currentState!.save();

// Navigate to the dashboard after successful login

Navigator.push(context, MaterialPageRoute(builder: (context) => Dashboard()));

}

},

child: Text('Login'),

),

],

),

),

),

);

}

}

// Dashboard Screen

class Dashboard extends StatefulWidget {

@override

\_DashboardState createState() => \_DashboardState();

}

class \_DashboardState extends State<Dashboard> {

List<Transaction> \_transactions = [];

// Method to load transactions from SharedPreferences (Implementation not shown)

Future<void> \_loadTransactions() async {

// ... Load data from SharedPreferences

}

// Method to save transactions to SharedPreferences (Implementation not shown)

Future<void> \_saveTransactions() async {

// ... Save data to SharedPreferences

}

@override

void initState() {

super.initState();

\_loadTransactions();

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(

title: Text('Personal Finance Tracker'),

),

body: // ... (List of transactions, add transaction button, etc.)

);

}

}