import 'package:flutter/material.dart';

void main() {

runApp(StudentInfoApp());

}

class StudentInfoApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

title: "Student Info Manager",

theme: ThemeData(primarySwatch: Colors.blue),

home: HomePage(),

debugShowCheckedModeBanner: false,

);

}

}

class HomePage extends StatefulWidget {

@override

\_HomePageState createState() => \_HomePageState();

}

class \_HomePageState extends State<HomePage> {

int studentCount = 0;

final \_formKey = GlobalKey<FormState>();

final \_emailController = TextEditingController();

final \_passwordController = TextEditingController();

void \_showSnackBar(BuildContext context) {

ScaffoldMessenger.of(context).showSnackBar(

SnackBar(

content: Text("Hello, John Doe! Welcome to the Student Info Manager."),

),

);

}

@override

Widget build(BuildContext context) {

return Scaffold(

appBar: AppBar(title: Text("Student Info Manager")),

body: SingleChildScrollView(

padding: EdgeInsets.all(16),

child: Column(

crossAxisAlignment: CrossAxisAlignment.center,

children: [

// a. Welcome Dashboard

Text(

"John Doe\nBSc Computer Science\nOxford University",

textAlign: TextAlign.center,

style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold),

),

SizedBox(height: 20),

// e. Profile Picture Display

ClipOval(

child: Image.network(

"https://i.pravatar.cc/200",

width: 120,

height: 120,

fit: BoxFit.cover,

),

),

SizedBox(height: 20),

// b. Interactive Notification

ElevatedButton(

onPressed: () => \_showSnackBar(context),

child: Text("Show Alert"),

),

SizedBox(height: 20),

// c. Student Counter

Text(

"Students Enrolled: $studentCount",

style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),

),

Row(

mainAxisAlignment: MainAxisAlignment.center,

children: [

IconButton(

icon: Icon(Icons.remove, color: Colors.red),

onPressed: () {

if (studentCount > 0) {

setState(() => studentCount--);

}

},

),

IconButton(

icon: Icon(Icons.add, color: Colors.green),

onPressed: () {

setState(() => studentCount++);

},

),

],

),

SizedBox(height: 30),

// d. Student Login Form

Form(

key: \_formKey,

child: Column(

children: [

TextFormField(

controller: \_emailController,

decoration: InputDecoration(labelText: "Email"),

validator: (value) {

if (value == null || !value.contains("@")) {

return "Enter a valid email.";

}

return null;

},

),

TextFormField(

controller: \_passwordController,

decoration: InputDecoration(labelText: "Password"),

obscureText: true,

validator: (value) {

if (value == null || value.length < 6) {

return "Password must be at least 6 characters.";

}

return null;

},

),

SizedBox(height: 10),

ElevatedButton(

onPressed: () {

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

ScaffoldMessenger.of(context).showSnackBar(

SnackBar(content: Text("Login Successful!")),

);

}

},

child: Text("Login"),

),

],

),

),

],

),

),

);

}

}