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

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

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

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Admin Dashboard',
      theme: ThemeData(primarySwatch: Colors.blue),
      home: const LoginScreen(),
      debugShowCheckedModeBanner: false,
    );
  }
}

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

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

  @override
  Widget build(BuildContext context) {
    final TextEditingController emailController = TextEditingController();
    final TextEditingController passwordController = TextEditingController();

    return Scaffold(
      body: Center(
        child: Padding(
          padding: const EdgeInsets.all(20.0),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.min,
            children: [
              const Text('Login', style: TextStyle(fontSize: 30)),
              TextField(controller: emailController, decoration: const InputDecoration(labelText: 'Email')),
              TextField(controller: passwordController, obscureText: true, decoration: const
InputDecoration(labelText: 'Password')),
              const SizedBox(height: 20),
              ElevatedButton(
                onPressed: () {
                  Navigator.push(context, MaterialPageRoute(builder: (_) => const DashboardScreen()));
                },
                child: const Text('Login'),
              )
            ],
          ),
        ),
      ),
    );
  }
}

```

```
// screens/dashboard_screen.dart
import 'package:flutter/material.dart';
import '../widgets/data_table_widget.dart';
import '../widgets/chart_widget.dart';

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

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: const Text('Admin Dashboard')),
      body: SingleChildScrollView(
        padding: const EdgeInsets.all(20.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: const [
            Text('Resident Data', style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold)),
            SizedBox(height: 10),
            DataTableWidget(),
            SizedBox(height: 30),
            Text('Analytics', style: TextStyle(fontSize: 20, fontWeight: FontWeight.bold)),
            SizedBox(height: 10),
            ChartWidget(),
          ],
        ),
      ),
    );
  }
}
```

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

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

  @override
  Widget build(BuildContext context) {
    final List<Map<String, String>> residents = [
      {'Name': 'Alice', 'Age': '25', 'City': 'Hyderabad'},
      {'Name': 'Bob', 'Age': '30', 'City': 'Bangalore'},
      {'Name': 'Charlie', 'Age': '28', 'City': 'Chennai'},
    ];

    return DataTable(
      columns: const [
        DataColumn(label: Text('Name')),
        DataColumn(label: Text('Age')),
        DataColumn(label: Text('City')),
      ],
      rows: residents.map((resident) {
        return DataRow(cells: [
          DataCell(Text(resident['Name']!)),
          DataCell(Text(resident['Age']!)),
          DataCell(Text(resident['City']!)),
        ]);
      }).toList(),
    );
  }
}
```

```

// widgets/chart_widget.dart
import 'package:flutter/material.dart';
import 'package:fl_chart/fl_chart.dart';

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

  @override
  Widget build(BuildContext context) {
    return SizedBox(
      height: 200,
      child: BarChart(
        BarChartData(
          barGroups: [
            BarChartGroupData(x: 0, barRods: [BarChartRodData(toY: 5, color: Colors.blue)]),
            BarChartGroupData(x: 1, barRods: [BarChartRodData(toY: 3, color: Colors.green)]),
            BarChartGroupData(x: 2, barRods: [BarChartRodData(toY: 4, color: Colors.orange)]),
          ],
          titlesData: FlTitlesData(
            bottomTitles: AxisTitles(sideTitles: SideTitles(showTitles: true, getTitlesWidget: (value, _) {
              switch (value.toInt()) {
                case 0:
                  return const Text('Hyderabad');
                case 1:
                  return const Text('Bangalore');
                case 2:
                  return const Text('Chennai');
              }
            },
            return const Text(''));
          leftTitles: AxisTitles(sideTitles: SideTitles(showTitles: false)),
        ),
        borderData: FlBorderData(show: false),
      ),
    );
  }
}

```