import 'package:flutter/material.dart';

import 'package:provider/provider.dart';

void main() {

runApp(

ChangeNotifierProvider(

create: (\_) => StringListProvider(),

child: MyApp(),

),

);

}

class MyApp extends StatelessWidget {

@override

Widget build(BuildContext context) {

return MaterialApp(

debugShowCheckedModeBanner: false,

home: StringListScreen(),

);

}

}

// Step 1: Provider class that manages a list of strings

class StringListProvider extends ChangeNotifier {

final List<String> \_items = [];

List<String> get items => \_items;

void addString(String newItem) {

if (newItem.trim().isNotEmpty) {

\_items.add(newItem.trim());

notifyListeners(); // Triggers UI update

}

}

}

// Step 2: UI with input and list display

class StringListScreen extends StatefulWidget {

@override

\_StringListScreenState createState() => \_StringListScreenState();

}

class \_StringListScreenState extends State<StringListScreen> {

final TextEditingController \_controller = TextEditingController();

@override

Widget build(BuildContext context) {

final provider = Provider.of<StringListProvider>(context, listen: false);

return Scaffold(

appBar: AppBar(title: Text('Provider String List')),

body: Padding(

padding: const EdgeInsets.all(16.0),

child: Column(

children: [

// Input field and button

Row(

children: [

Expanded(

child: TextField(

controller: \_controller,

decoration: InputDecoration(

labelText: 'Enter a new string',

border: OutlineInputBorder(),

),

),

),

SizedBox(width: 8),

ElevatedButton(

onPressed: () {

provider.addString(\_controller.text);

\_controller.clear();

},

child: Text("Add"),

),

],

),

SizedBox(height: 20),

// Display list using Consumer

Expanded(

child: Consumer<StringListProvider>(

builder: (context, provider, child) {

final items = provider.items;

return ListView.builder(

itemCount: items.length,

itemBuilder: (context, index) {

return ListTile(

leading: Icon(Icons.check\_circle\_outline),

title: Text(items[index]),

);

},

);

},

),

),

],

),

),

);

}

}