**Receipe\_app**

**Main.dart**

import 'package:flutter/material.dart';

import 'package:provider/provider.dart';

import 'recipe\_provider.dart';

import 'recipe\_model.dart';

void main() {

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return ChangeNotifierProvider(

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

      child: MaterialApp(

        debugShowCheckedModeBanner: false,

        home: RecipeScreen(),

      ),

    );

  }

}

class RecipeScreen extends StatefulWidget {

  @override

  \_RecipeScreenState createState() => \_RecipeScreenState();

}

class \_RecipeScreenState extends State<RecipeScreen> {

  @override

  void initState() {

    super.initState();

    // Load recipes

    \_loadRecipes();

  }

  void \_loadRecipes() {

    List<Recipe> fetchedRecipes = [

      Recipe(

        title: 'Vegetable Biryani',

        imageUrl:

            'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcR1Ja24UiG96COANQY6LXyBO8eDYqBxYweOoQ&s',

        cuisine: 'Indian',

        type: 'Vegetarian',

        ingredients: ['Rice', 'Vegetables', 'Spices'],

        instructions: 'Mix everything and cook.',

      ),

      Recipe(

        title: 'Chicken Curry',

        imageUrl:

            'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRoZ5W-35XkYg4k-G8V\_HJ9UvZ3Ew774xnfyQ&s',

        cuisine: 'Indian',

        type: 'Non-Vegetarian',

        ingredients: ['Chicken', 'Curry Paste', 'Spices'],

        instructions: 'Cook chicken with curry paste.',

      ),

      Recipe(

        title: 'Italian pizza',

        imageUrl:

            'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSvG9dRvJfR6l8T54Lv4vbU\_ZbkmaWfh56h0w&s',

        cuisine: 'Italian',

        type: 'Non-Vegetarian',

        ingredients: ['Margherita', 'Bufalina', 'Diavola', 'Quattro Formaggi'],

        instructions:

            'A combination of mozzarella, provolone, or Parmesan cheese. Mozzarella is usually whole milk, and fior di latte is sometimes sprinkled on top.',

      ),

      Recipe(

        title: 'Masala Dosa',

        imageUrl:

            'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQ3CdoXkn5j38QqktAyvFuPB5-V3lXg\_pGdYA&s',

        cuisine: 'Indian',

        type: 'Vegetarian',

        ingredients: ['Potato', 'Dosa batter', 'Spices', 'onions'],

        instructions:

            'Grind the rice to a slightly coarse texture and the dal to a smooth and fluffy texture.The potato masala should be moist and spreadable, not too watery.',

      ),

    ];

    Provider.of<RecipeProvider>(context, listen: false)

        .setRecipes(fetchedRecipes);

  }

  @override

  Widget build(BuildContext context) {

    return Scaffold(

      backgroundColor: const Color.fromARGB(255, 209, 223, 248),

      appBar: AppBar(title: Text('Recipe App')),

      body: Column(

        children: [

          Padding(

            padding: const EdgeInsets.all(8.0),

            child: Row(

              children: [

                ElevatedButton(

                  onPressed: () {

                    Provider.of<RecipeProvider>(context, listen: false)

                        .setFilter('Vegetarian');

                  },

                  child: Text('Vegetarian'),

                ),

                SizedBox(width: 10),

                ElevatedButton(

                  onPressed: () {

                    Provider.of<RecipeProvider>(context, listen: false)

                        .setFilter('Non-Vegetarian');

                  },

                  child: Text('Non-Veg'),

                ),

                SizedBox(width: 10),

                ElevatedButton(

                  onPressed: () {

                    Provider.of<RecipeProvider>(context, listen: false)

                        .setFilter('Indian');

                  },

                  child: Text('Indian Cuisine'),

                ),

                SizedBox(width: 10),

                ElevatedButton(

                  onPressed: () {

                    Provider.of<RecipeProvider>(context, listen: false)

                        .setFilter('All');

                  },

                  child: Text('All Recipes'),

                ),

              ],

            ),

          ),

          Expanded(

            child: Consumer<RecipeProvider>(

              builder: (context, provider, child) {

                final recipes = provider.recipes;

                return ListView.builder(

                  itemCount: recipes.length,

                  itemBuilder: (ctx, index) {

                    final recipe = recipes[index];

                    return Card(

                      margin: EdgeInsets.all(10),

                      child: ListTile(

                        leading: Image.network(recipe.imageUrl),

                        title: Text(recipe.title),

                        subtitle: Text('${recipe.type} | ${recipe.cuisine}'),

                        onTap: () {

                          Navigator.push(

                            context,

                            MaterialPageRoute(

                              builder: (context) =>

                                  RecipeDetailScreen(recipe: recipe),

                            ),

                          );

                        },

                      ),

                    );

                  },

                );

              },

            ),

          ),

        ],

      ),

    );

  }

}

class RecipeDetailScreen extends StatelessWidget {

  final Recipe recipe;

  RecipeDetailScreen({required this.recipe});

  @override

  Widget build(BuildContext context) {

    return Scaffold(

      appBar: AppBar(title: Text(recipe.title)),

      body: Padding(

        padding: const EdgeInsets.all(8.0),

        child: Column(

          crossAxisAlignment: CrossAxisAlignment.start,

          children: [

            Image.network(recipe.imageUrl),

            SizedBox(height: 10),

            Text('Ingredients:',

                style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold)),

            ...recipe.ingredients

                .map((ingredient) => Text('- $ingredient'))

                .toList(),

            SizedBox(height: 20),

            Text('Instructions:',

                style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold)),

            Text(recipe.instructions),

          ],

        ),

      ),

    );

  }

}

**recipe\_model.dart**

class Recipe {

  final String title;

  final String imageUrl;

  final String cuisine;

  final String type; // Vegetarian or Non-Vegetarian

  final List<String> ingredients;

  final String instructions;

  Recipe({

    required this.title,

    required this.imageUrl,

    required this.cuisine,

    required this.type,

    required this.ingredients,

    required this.instructions,

  });

  factory Recipe.fromJson(Map<String, dynamic> json) {

    return Recipe(

      title: json['title'],

      imageUrl: json['imageUrl'],

      cuisine: json['cuisine'],

      type: json['type'],

      ingredients: List<String>.from(json['ingredients']),

      instructions: json['instructions'],

    );

  }

}

**recipe\_provider.dart**

import 'package:flutter/material.dart';

import 'recipe\_model.dart';

class RecipeProvider with ChangeNotifier {

  List<Recipe> \_recipes = [];

  String \_filterType = 'All';

  List<Recipe> get recipes {

    if (\_filterType == 'All') {

      return \_recipes;

    }

    return \_recipes

        .where((recipe) =>

            recipe.type == \_filterType || recipe.cuisine == \_filterType)

        .toList();

  }

  void setFilter(String type) {

    \_filterType = type;

    notifyListeners();

  }

  void setRecipes(List<Recipe> newRecipes) {

    \_recipes = newRecipes;

    notifyListeners();

  }

}



