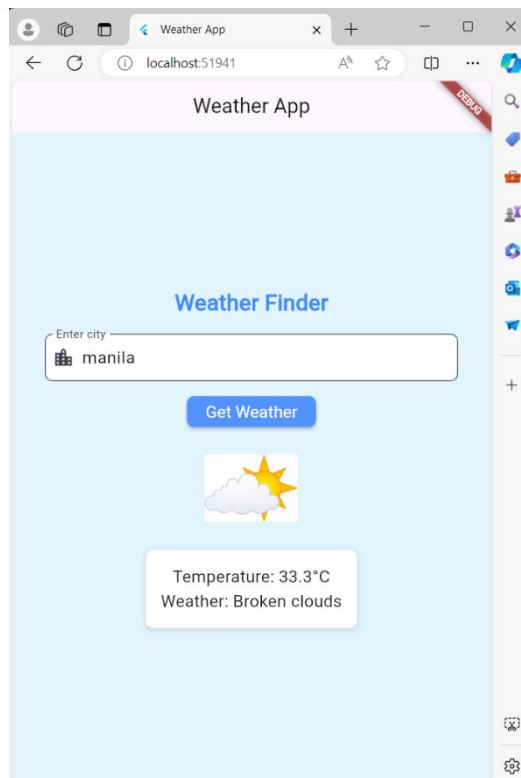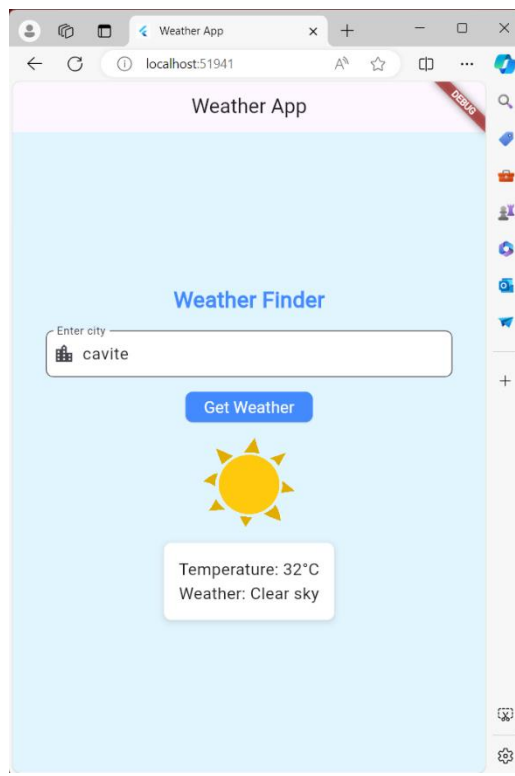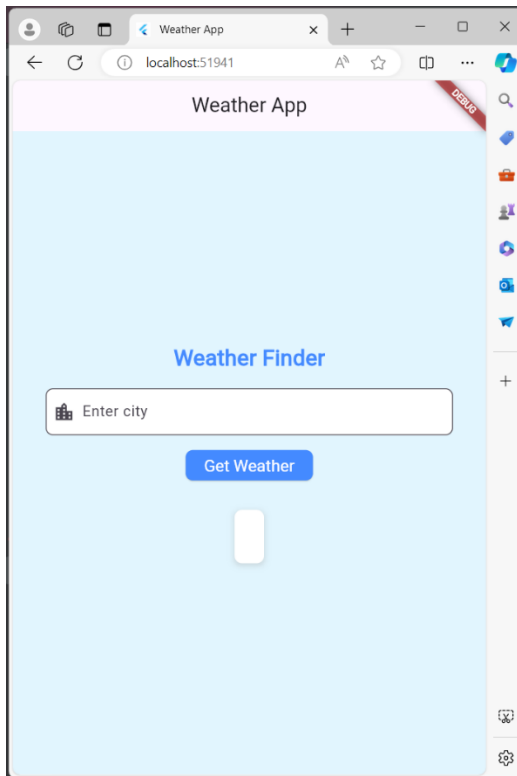# Weather Finder Application
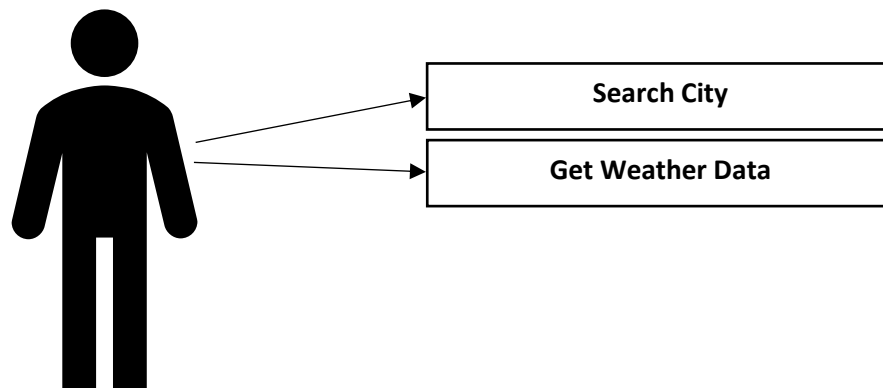
Bayhon, John Allen D.

Catihanan, Aldrin

Isla, Charles Nicholo

Welcome to Weather Finder, your go-to weather application for real-time, accurate, and personalized weather forecasts. Whether you're planning your day or preparing for an unexpected change in the weather, our app provides you with up-to-the-minute updates on temperature, precipitation, and more. Weather Finder ensures you're always prepared, no matter the weather is.

Search City	
Get Weather Data	

```dart
import 'dart:convert';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Weather App',
      theme: ThemeData(
        primarySwatch: Colors.blue,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
      home: WeatherScreen(),
    );
  }
}

class WeatherScreen extends StatefulWidget {
  @override
  _WeatherScreenState createState() => _WeatherScreenState();
}

class _WeatherScreenState extends State<WeatherScreen> {
  final TextEditingController _controller = TextEditingController();
  String _weather = '';
  String _imagePath = '';
  bool _loading = false;

    void _getWeather() async {
```

```dart
    void _getWeather() async {
      final city = _controller.text;
      if (city.isNotEmpty) {
        setState(() {
          _loading = true;
          _weather = '';
          _imagePath = '';
        });

        try {
          final data = await fetchWeather(city);
          final weather = data['data'][0];
          final description = weather['weather']['description'].toLowerCase();


          if (description.contains('sunny') || description.contains('clear')) {
            _imagePath = 'sunny.png';
          } else if (description.contains('rain') || description.contains('drizzle')) {
            _imagePath = 'rainy.png';
          } else if (description.contains('cloud')) {
            _imagePath = 'cloudy.png';
          } else {
            _imagePath = '';
          }

          // Debugging output
          print('Weather Description: $description');
          print('Image Path: $_imagePath');

          setState(() {
            _weather = 'Temperature: ${weather['temp']}°C\n'
                'Weather: ${weather['weather']['description']}';
          });
        } catch (e) {
```

```dart
        }
      }

      @override
      Widget build(BuildContext context) {
        return Scaffold(
          appBar: AppBar(
            title: Text('Weather App'),
            centerTitle: true,
          ),  // AppBar
          body: Container(
            color: Colors.lightBlue[50],
            child: Padding(
              padding: const EdgeInsets.all(16.0),
              child: Column(
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
                  Text(
                    'Weather Finder',
                    style: TextStyle(
                      fontSize: 24,
                      fontWeight: FontWeight.bold,
                      color: Colors.blueAccent,
                    ),  // TextStyle
                  ),  // Text
                  SizedBox(height: 16),
                  Container(
                    margin: EdgeInsets.symmetric(horizontal: 20),
                    child: TextField(
                      controller: _controller,
                      decoration: InputDecoration(
                        border: OutlineInputBorder(
                          borderRadius: BorderRadius.circular(8),
                        ),  // OutlineInputBorder
```

```dart
133                   ),  // OutlineInputBorder
134                   labelText: 'Enter city',
135                   prefixIcon: Icon(Icons.location_city),
136                   filled: true,
137                   fillColor: Colors.white,
138                 ),  // InputDecoration
139                 style: TextStyle(fontSize: 18),
140               ),  // TextField
141             ),  // Container
142             SizedBox(height: 16),
143             ElevatedButton(
144               onPressed: _getWeather,
145               style: ElevatedButton.styleFrom(
146                 backgroundColor: Colors.blueAccent,
147                 foregroundColor: Colors.white,
148                 padding: EdgeInsets.symmetric(vertical: 14, horizontal: 20),
149                 textStyle: TextStyle(fontSize: 18),
150                 shape: RoundedRectangleBorder(
151                   borderRadius: BorderRadius.circular(8),
152                 ),  // RoundedRectangleBorder
153               ),
154               child: Text('Get Weather'),
155             ),  // ElevatedButton
156             SizedBox(height: 16),
157             if (_loading) CircularProgressIndicator(),
158             if (!_loading) Column(
159               children: [
160                 if (_imagePath.isNotEmpty)
161                   Image.asset(
162                     _imagePath,
163                     width: 100,
164                     height: 100,
165                   ),  // Image.asset
166                 SizedBox(height: 16),
```

```dart
166                 SizedBox(height: 16),
167                 Container(
168                   margin: EdgeInsets.symmetric(horizontal: 20),
169                   padding: EdgeInsets.all(16),
170                   decoration: BoxDecoration(
171                     color: Colors.white,
172                     borderRadius: BorderRadius.circular(8),
173                     boxShadow: [
174                       BoxShadow(
175                         color: Colors.grey.withOpacity(0.3),
176                         spreadRadius: 1,
177                         blurRadius: 4,
178                         offset: Offset(0, 2),
179                       ),  // BoxShadow
180                     ],
181                   ),  // BoxDecoration
182                   child: Text(
183                     _weather,
184                     textAlign: TextAlign.center,
185                     style: TextStyle(fontSize: 18, fontWeight: FontWeight.w500),
186                   ),  // Text
187                 ),  // Container
188               ],
189             ),  // Column
190           ],
191         ),  // Column
192       ),  // Padding
193     ),  // Container
194   );  // Scaffold
195   }
196 }
197
```