1. \*\*Set up your Angular project:\*\*

- Use Angular CLI to create a new project:

```bash

ng new weather-dashboard

cd weather-dashboard

```

2. \*\*Create Components:\*\*

- Create components for the main dashboard, weather card, and any other necessary components:

```bash

ng generate component dashboard

ng generate component weather-card

```

3. \*\*Create a Weather Service:\*\*

- Generate a service to handle API requests. Use Angular CLI:

```bash

ng generate service weather

```

4. \*\*Update the Weather Service:\*\*

- Update the `weather.service.ts` file to make API requests. Here's a simplified example:

```typescript

// weather.service.ts

import { Injectable } from '@angular/core';

import { HttpClient } from '@angular/common/http';

import { Observable } from 'rxjs';

@Injectable({

providedIn: 'root',

})

export class WeatherService {

private apiKey = 'YOUR\_API\_KEY';

private apiUrl = 'https://api.openweathermap.org/data/2.5/weather';

constructor(private http: HttpClient) {}

getWeather(city: string): Observable<any> {

const url = `${this.apiUrl}?q=${city}&appid=${this.apiKey}`;

return this.http.get(url);

}

}

```

5. \*\*Update the Weather Card Component:\*\*

- Update the `weather-card.component.ts` file to use the Weather Service:

```typescript

// weather-card.component.ts

import { Component, Input } from '@angular/core';

import { WeatherService } from '../services/weather.service';

@Component({

selector: 'app-weather-card',

templateUrl: './weather-card.component.html',

styleUrls: ['./weather-card.component.css'],

})

export class WeatherCardComponent {

@Input() city: string;

weatherData: any;

constructor(private weatherService: WeatherService) {}

ngOnInit() {

this.weatherService.getWeather(this.city).subscribe((data) => {

this.weatherData = data;

});

}

}

```

6. \*\*Update the Weather Card Component HTML:\*\*

- Update the `weather-card.component.html` file to display weather information:

```html

<!-- weather-card.component.html -->

<div \*ngIf="weatherData">

<h2>{{ weatherData.name }}</h2>

<p>{{ weatherData.weather[0].description }}</p>

<p>Temperature: {{ weatherData.main.temp }} &#8451;</p>

<!-- Add more weather information as needed -->

</div>

```

7. \*\*Use the Components in the Dashboard:\*\*

- Update the `dashboard.component.html` file to use the Weather Card component for each city:

```html

<!-- dashboard.component.html -->

<div>

<app-weather-card city="City1"></app-weather-card>

<app-weather-card city="City2"></app-weather-card>

<!-- Add more Weather Card components for other cities -->

</div>

```