

Weather App Presentation

1. Introduction

The Weather App is a simple Node.js application that fetches real-time weather information using an API. It demonstrates the use of JavaScript, Node.js, and third-party libraries like Axios to make HTTP requests.

2. Features

- Real-time weather data
- Simple CLI or server-side execution
- Uses Axios for HTTP requests
- Can be extended with front-end interfaces

3. Technologies Used

- Node.js
- JavaScript
- Axios (for making API calls)
- OpenWeatherMap API or similar
- Visual Studio Code

4. How It Works

1. User inputs a city name
2. Axios sends a request to the weather API
3. The API returns weather data
4. The data is displayed to the user

5. Sample Code

```
const axios = require('axios');
const city = 'London';
const apiKey = 'your_api_key_here';
axios.get(`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}`)
  .then(response => {
    console.log(response.data);
  })
  .catch(error => {
```

```
        console.error(error);  
    });
```

6. Output Example

City: London

Temperature: 289.5K

Weather: Clouds

Humidity: 82%

7. Conclusion

This Weather App is a great project to understand API integration, JavaScript programming, and backend development using Node.js.