



# Frontend Task

## Weather App

### Problem Statement

Create a weather app that allows users to search for a city and displays the current weather conditions and a 5-day forecast. The app should use a weather API to fetch the data and display it in a visually appealing way using NextJS/ReactJS and CSS.

### Required Functionality

- Users should be able to search for a city and view the current weather conditions, such as temperature, wind speed, and humidity.
- Users should be able to view a 10-day forecast for the selected city, displaying the available weather conditions data for each day.
- Users should be able to switch between Celsius and Fahrenheit units and save their preference using LocalStorage.
- The app should handle errors gracefully, such as when the API is unavailable or the user enters an invalid city.

### Brownie Points

- Use TypeScript and interfaces.
- Allow users to view weather conditions for their current location using the browser's geolocation API.
- Add autocomplete functionality to the search bar to suggest cities as the user types.

- Display additional weather data, such as pressure, visibility, and sunrise/sunset times.
- Implement a feature to display historical weather data for a selected city.
- Use animations or transitions to improve the user experience.

### **Technical Requirements**

- Use NextJS / React.js for the front-end development.
- Use a weather API to fetch weather data. Suggested APIs include WeatherAPI (<https://www.weatherapi.com/>).
- Use LocalStorage to save user preferences and settings.
- Use JavaScript promises to handle asynchronous data fetching and updating.
- Use clean and modular architecture to make the codebase easy to maintain and extend.
- Host the app on a web server to make it accessible to users.

### **Important Notes**

- The app should be developed from scratch and should not be plagiarized from other sources.
- The UI should be visually appealing and easy to use, with a consistent design across all pages.
- The app should be responsive and work well on both desktop and mobile devices.

### **Submission:**

Push your code to a private GitHub repository and add [recruitments@trademarkia.com](mailto:recruitments@trademarkia.com) as a contributor.

Mention steps to run your project in a README file.

Submit your repository link by filling the form on <https://bit.ly/VIT-TM-Summer-Submission-23>.

For more queries contact [recruitments@trademarkia.com](mailto:recruitments@trademarkia.com)