



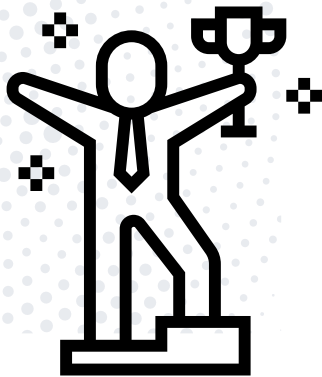
Develop a comprehensive & User-Friendly Weather app with ReactJS & External APIs

Client: A startup company that aims to provide accurate and reliable weather information to users across the globe.

Business Challenge:

They wanted to create a weather app that would stand out from the existing ones in the market. They wanted their app to have the following features:

- A simple and intuitive user interface that would allow users to easily search and view weather data for any location in the world.
- A comprehensive display of current weather conditions, hourly and daily forecasts, air quality, wind speed, humidity, pressure, and UV index for each location.
- A graphical representation of weather trends and patterns using charts, maps, and icons.
- A seamless integration with external APIs that would provide real-time and accurate weather data from various sources.




Solution Delivered:






We used ReactJS to create reusable and interactive components for the app, such as search bar, weather card, weather details, weather chart, weather map, and weather icon. We also used React hooks to manage the state and lifecycle of the components.

We used OpenWeatherMap API to fetch and display the current weather conditions and forecasts for any location in the world. We also used google maps API and their Geocoding API to convert the user's input into geographic coordinates that can be used by OpenWeatherMap API. Using Dark Sky API to get historical weather data for each location. We used this data to create charts that show the temperature, precipitation, and cloud cover trends over time. We used React Icons, to create the weather icons. We chose icons that represent different weather conditions, such as sunny, cloudy, rainy, snowy, etc. With React Bootstrap we used their grid system, buttons, cards, modals, and tooltips to make the app responsive and user-friendly.

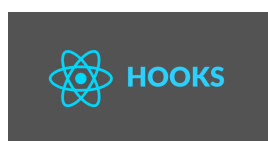


Business Benefits:

 The weather app we created for them has the following benefits:

-  Easy and intuitive UI for weather search and view
-  Comprehensive and detailed display of weather data
-  Graphical representation of weather trends and patterns
-  Seamless integration with real-time and accurate APIs
-  Enhanced user satisfaction and engagement

Technologies Used:



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Get in touch with us

Mail: sales@cgvak.com or biz@cgvakindia.com
Phone: +1 (908) 737-7425

