



World Weather Challenge

This test assignment is designed to give you the opportunity to showcase your frontend development skills through a practical project. After submission, the development team will review your work, and we'll schedule a discussion to talk about your implementation decisions.

Scope and functionality

- Create a single-page application using React (TypeScript preferred, NextJS is also accepted)
- Implement an interactive map using the React-Leaflet library
- Enable location selection via map clicks
- Display weather information for the selected location
- Include a location search functionality
- Add temperature unit conversion (Celsius/Fahrenheit)
- Connect to a free weather API service (OpenWeatherMap offers a free tier)

Purpose of the assignment

This assignment allows flexibility to emphasize your strengths. If you excel at creating beautiful interfaces, focus your energy there. If your strength is in API integration and data handling, that's fine too!

We value these qualities in our frontend development:

- Responsiveness - The application should feel quick and fluid
- User-friendly - The interface should be intuitive and efficient
- Aesthetically pleasing - Create something visually appealing
- Code quality - Write clean, maintainable, and well-structured code

Technical guidelines

- Be thoughtful about external libraries - use them when they add real value
- Include clear documentation explaining your approach
- Try to complete the assignment within a 6-8 hour timeframe
- Tailwind CSS is recommended if you're familiar with the framework
- Using AI tools as assistance is perfectly acceptable - just be prepared to explain your code and decisions in our follow-up discussion

Submission

When you're finished, please upload your code to a repository and share it with jde@p-secure.com. Include setup instructions and any notes about your implementation in the README.

We're looking forward to seeing your creative solution and discussing it with you!