



FSE. TAKE HOME PROJECT

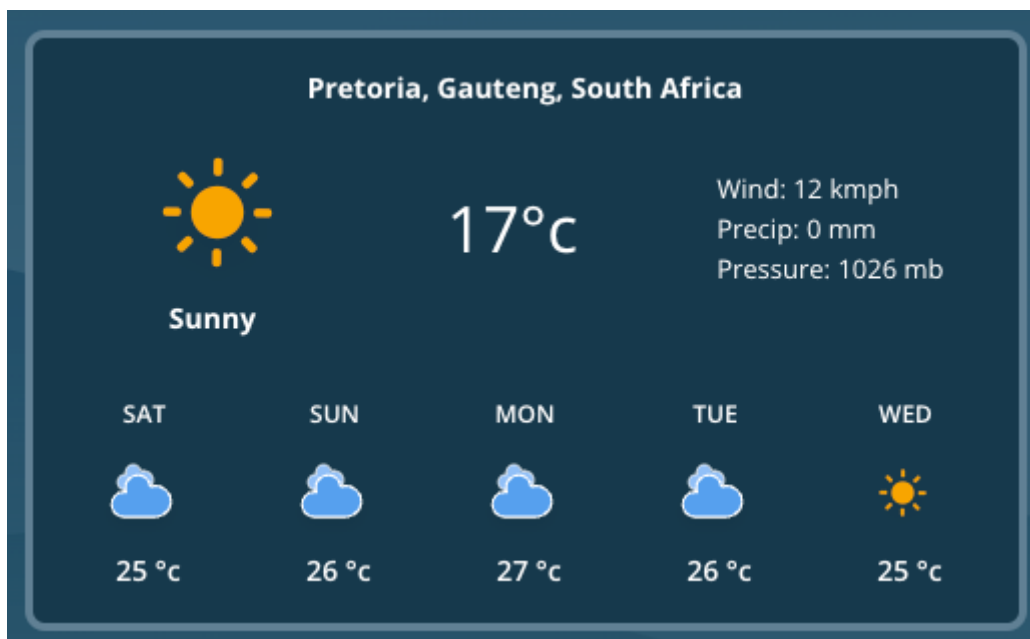
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- i** All FE candidates must complete this project before setting up the first interview.
Timeframe to be given is **1 week**

FRONTEND ENGINEER TAKE-HOME PROJECT: WEATHER APP

Objective:

Build a weather application that showcases your ability to create a **production-ready** front-end application with React. The app should include the core functionality of displaying weather information, with attention to clean code, testing, and prioritization.



Requirements:

Core Features:

1. **Current Weather:**
 - Display the current weather for a specified location.
2. **3-Day Forecast & 3-Day History:**
 - Show weather details for the next 3 days and the past 3 days in a grid or list view.
3. **Interactive Selection:**
 - Clicking on a day's weather tile updates the main display to show details for that specific day.

Bonus Points

- Animations or transitions for a better user experience.
- Responsive design for mobile and desktop screens.
- Innovative use of browser storage or service workers for caching.

- Well-structured commit history.

Guidelines:


- Use **React** with **TypeScript**.
- Use **Vite** to scaffold your app (or an equivalent setup you're comfortable with).
- Fetch data using the [WeatherStack API](#) (free tier). Use the **native Fetch API** (no libraries like Axios).
- Choose any styling approach you prefer (e.g., CSS-in-JS, Tailwind, Chakra UI, etc.).

Deliverables:

1. **Functioning Weather App:**
 - The core features must work as described.
2. **Documentation:**
 - Clear instructions on how to set up and run the app.
 - Brief explanation of design decisions and trade-offs.
3. **Tests:**
 - Include tests that validate core features

Submission:

- Upload your project to a public GitHub repository and share the link.

 **Note:** We are intentionally leaving some aspects open-ended to see how you interpret and implement a production-ready app. Good luck!