

Pre-interview task: Weather widget (2-4 hours)

Implement a simple weather widget-like application for web browser using Node.js (and optionally React).

The widget shows basic weather information (temperature, humidity, wind) for a given Danish city.

Weather in Copenhagen	
Temperature: 5°C	
Humidity: 65	
Wind: 11 m/s Øst	
<input type="text" value="City"/>	<input type="button" value="Search"/>

Acceptance criteria

- On the initial page load, the default city should be Copenhagen.
- The widget for any given city should be sharable with a url like `http://widget.example/?city=Odense`
- When the user selects a new city, the new data should be fetched by the browser and thus not require a page reload. Despite not reloading the page, the url should still be updated to match the selected city.
- The widget should retain its basic functionality even if the user disables JavaScript in their browser.

Additional instructions

- There are no requirements for specific libraries or frameworks, so use what you are comfortable with
- Automated tests (both unit or functional) are nice to have, but not a requirement.
- The application should be robust, scalable as well as easy to test and maintain.

Resources:

HTML/CSS Layout

<https://gist.github.com/komarserjio/f613df836f29a4809d6bd9ab0d712709>

Feel free to add any extras to the layout (loading spinner, "not found" messages, etc).

Data/API

OpenWeatherMap API: <https://openweathermap.org/api>

API Key: 166d00e26d3ff2c6149e89feccc5c59a

Example calls:

<http://api.openweathermap.org/data/2.5/weather?q=Copenhagen,dk&appid=166d00e26d3ff2c6149e89feccc5c59a>

<http://api.openweathermap.org/data/2.5/weather?q=Odense,dk&appid=166d00e26d3ff2c6149e89feccc5c59a>

Delivery:

Publish result as a public GitHub/GitLab repository including a README file with explanation on how to run your application (and tests if applicable)

Send link to the repo and your CV to teamchef for Web & CMS Henrik Riis på: hrii@tv2.dk