

Front End Developer Test

Task Background

Travel Site is a web site managed by a national tourist board providing content about visiting their country, including details of towns, areas and activities. They are looking to add some additional features to the site.

We have defined some typical Tasks and Acceptance Criteria below that might be provided to the development team. Please approach these in whichever order you see fit, but try to offer a complete solution to the tasks you attempt.

We would like you to provide us with:

1. Source code for a simple web application that showcases how you would develop, test and deliver a re-usable weather forecast that meets the requirements laid out below.
2. Please use SASS and write your classes using BEM
3. Please use any flavour of JavaScript and/or framework you prefer. We like React, but use what you feel most comfortable.
4. Please include build script and README.md for instructions on getting the solution up and running.
5. Solution should be supplied as public Git repository. We are testing Git usage here too so please commit regularly.

You have 4 working days to complete the task. But try do not spend longer than 7 hours.

Please deliver your completed task 24 hours before your interview and be prepared to discuss your approach, design and implementation.

Weather Forecast on Travel Site

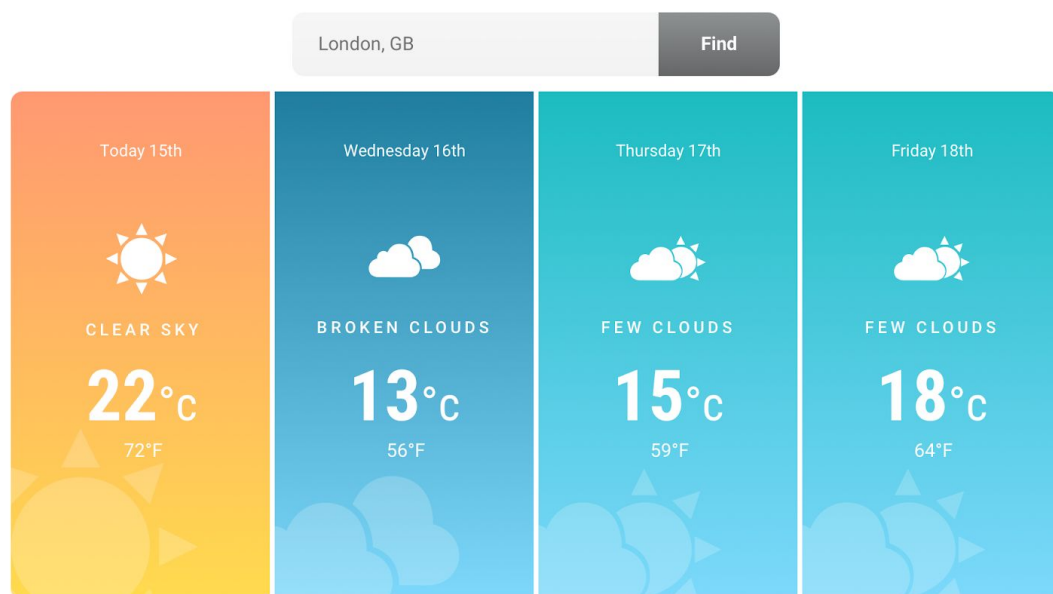
Travel Site would like to be able to display current and upcoming weather for the town or area that a content page is about.

Travel Site have identified [OpenWeatherMap](https://openweathermap.org/) (<https://openweathermap.org/>) as the preferred provider of the weather data, so expect their weather APIs to be used, and are happy to follow their usage requirements.

The design team have kindly provided designs and icons in SVG format for use in your app.

Design

Please use *design-notes.md* and icons provided to style the following interface.



Browser Compatibility

The app need only be tested in the latest Chrome release. There is no requirement for legacy support.

Mobile/Tablet

Some thought should be given to how the forecast will work on mobile.

Tasks

1. **Styling and Markup:** Create the mark-up and styles, based around the supplied design and icons to show different weather treatments over 4 time periods.
 - a. Module should show 4 sets of forecast data.
 - b. For each data set shown, the forecast should show: *Date* (Full Day and Date with ordinal - 1st, 2nd, 4th), Temperature in *Celcius* and *Fahrenheit*, *Main Weather* Icon and Summary, gradient based on weather type - eg orange to yellow for clear sky.

2. **Scripting:** Call the 5 Day/3 Hour API (<https://openweathermap.org/forecast5>), and parse it to generate the 4 forecast data points. Create a Weather forecast that shows the weather for today and the next three days for a given location.
 - a. Forecast should show the current weather for London, UK
 - b. Forecast should show the forecasted weather for the next three time periods in the API for London, UK.
 - c. For each data set shown, the forecast should show: *Date*, Temperature in *Celcius* and *Farenheit*, *Main Weather* Icon and Summary, gradient based on weather type - eg orange to yellow for clear sky.
3. **Advanced Features:** Rather than showing the 3 hour time blocks, parse the API feed to show suitable forecasts for different days (current day and next three days). Extend the Weather forecast so that the location can be passed in from the server-side or via a query string.
 - a. Forecast should show different dates, taken from an appropriate time period.
 - b. Module can be customised to show weather from different locations:
 - i. **Either:** via a data attribute or global variable, configure different instances of the forecast (on separate pages or within separate containers) to show different locations.
 - ii. **Or:** parse a query string value containing *location ids*.