



## Programming Development Exercise

For Web Developers Applying to Architech

### OVERVIEW

The purpose of this exercise is to create a simple application in HTML, CSS and Javascript. Please note that there is no right or wrong answer. Our interest is in seeing how you approach a simple development task. Your result will be reviewed by an Architech Technical Lead and will serve as the basis for further technical discussion(s).

### TECHNICAL CONSTRAINTS

Please adhere to the following technical constraints:

- The application should be written in HTML, CSS, and Javascript

### OUR DEFINITION OF DONE

The requirement or user story is not complete until the following items have been met:

- Your implementation should meet the acceptance criteria
- Your response must be executable without modification (i.e. include all libraries)

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### DEVELOPMENT EXERCISE (USER STORY)

Please create a simple application that shows a 5-day forecast for a city by name.

You can retrieve the data from the following API:

<https://openweathermap.org/forecast5>

Please verify that:

- The user is able to query by city name
- The forecast should be displayed in a user friendly manner

Please note that this application must be a single page web application. You are able to use any Javascript/CSS frameworks as you see fit, and tabular output is acceptable.

Bonus

- Display the forecast in a chart or other visually compelling manner
- Calculate and present the average pressure for the week

Below are some guidelines for its completion.

- Please document so our engineers can run the application
- The task will take a few hours to complete. We are looking for a simple and elegant solution.
- Your solution must be executable without any modification (i.e. include all libraries)
- Your response must be provided as a zip archive

We appreciate you affording the time to complete the above exercise. Your result will be evaluated within 48 hours of its submission. Human Resources will deliver feedback, along with an indication of next steps within a timely manner.