



Frontend code challenge

Welcome

Dear candidate, we are glad to have you at this stage of the hiring process.

The main goal of this code challenge is to have a better understanding of your skills developing, testing and structuring your code. It allows your potential future peers to see your coding style.

Your mission, should you accept, is to develop a SPA (with React and Redux) to display the temperature in different cities of the world.

To build this project you must sign up to <https://openweathermap.org> and get a free API KEY. Once you have signed up, you can use the [current weather API](#) to fetch the weather information.

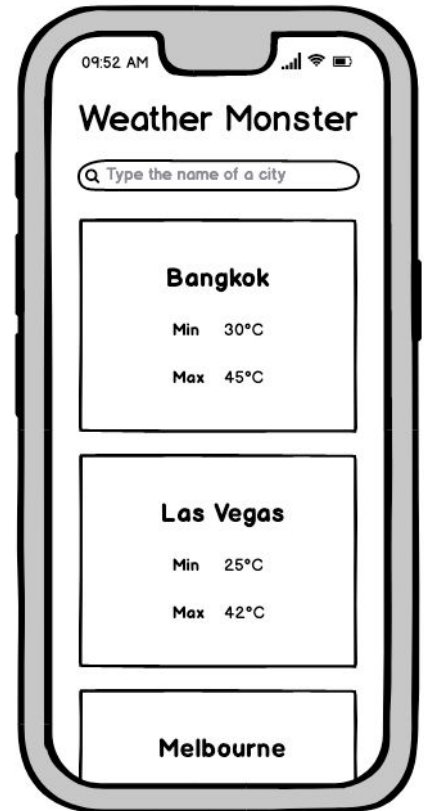
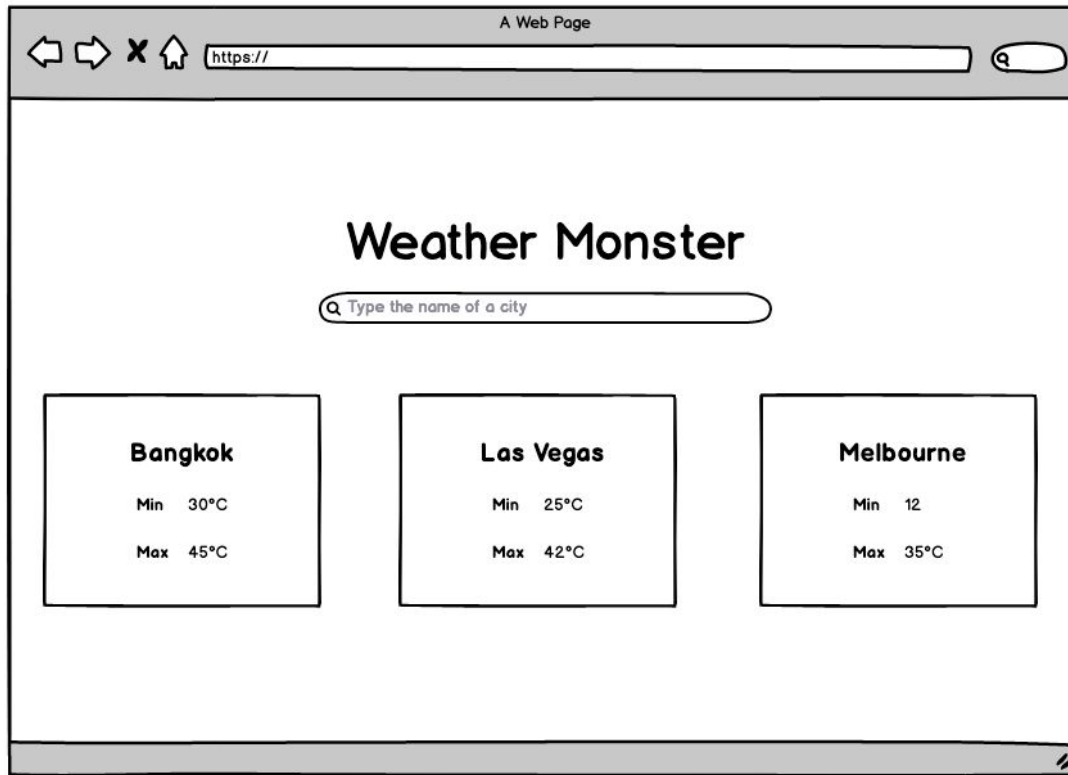
This coding challenge was designed to be simple, so we strongly recommend that you don't take more than 3 hours developing it.

If you have any questions, check the "FAQ" section at the end of this document.

We wish you good luck and we're looking forward to browsing your code.

Weather Monster

That's how the "Weather Monster" application looks like in different devices. In the next sections, you'll find the "User Stories" covering the features of the product.



Feature 1: Listing cities

As a User

I want to find my city on the list of cities quickly

So that I can check how the weather is

Given I click on the search box

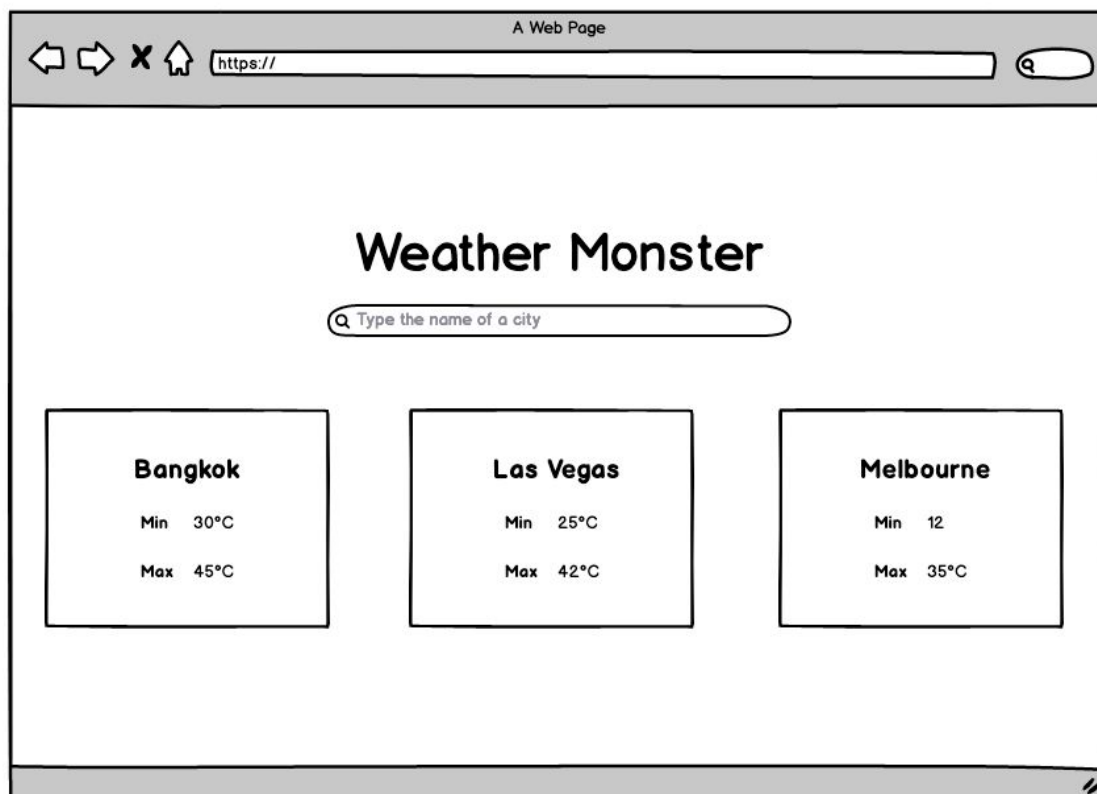
When I don't type anything

Then all the cities available in the system should be listed in the dropdown

Given I'm typing letters in the search box

When the content I write is part of a city name

Then the cities matching the letters should appear in a dropdown



Feature 2: Selecting a city

As a User

I want to select a city

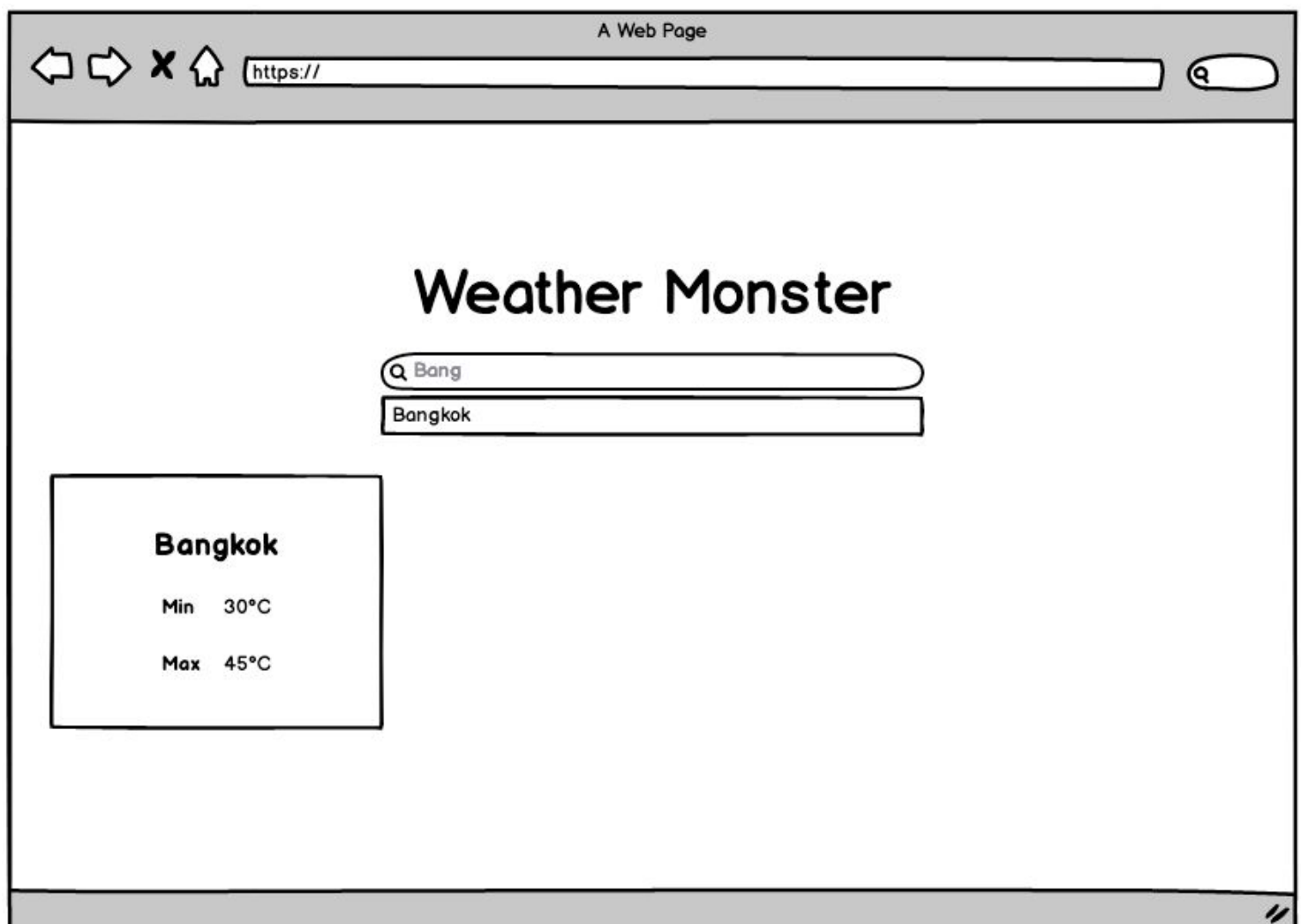
So that I can view more information about it

Given there's a list of cities displayed in the dropdown

When I click on a specific city

And the city was still not selected

Then the city should be added to the city list



Feature 3: Ordering cities by temperature

As a User

I want to know which are the most host cities in my list

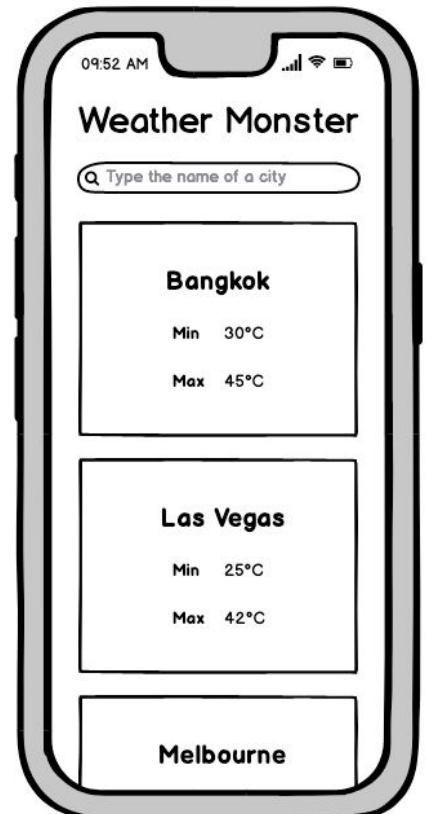
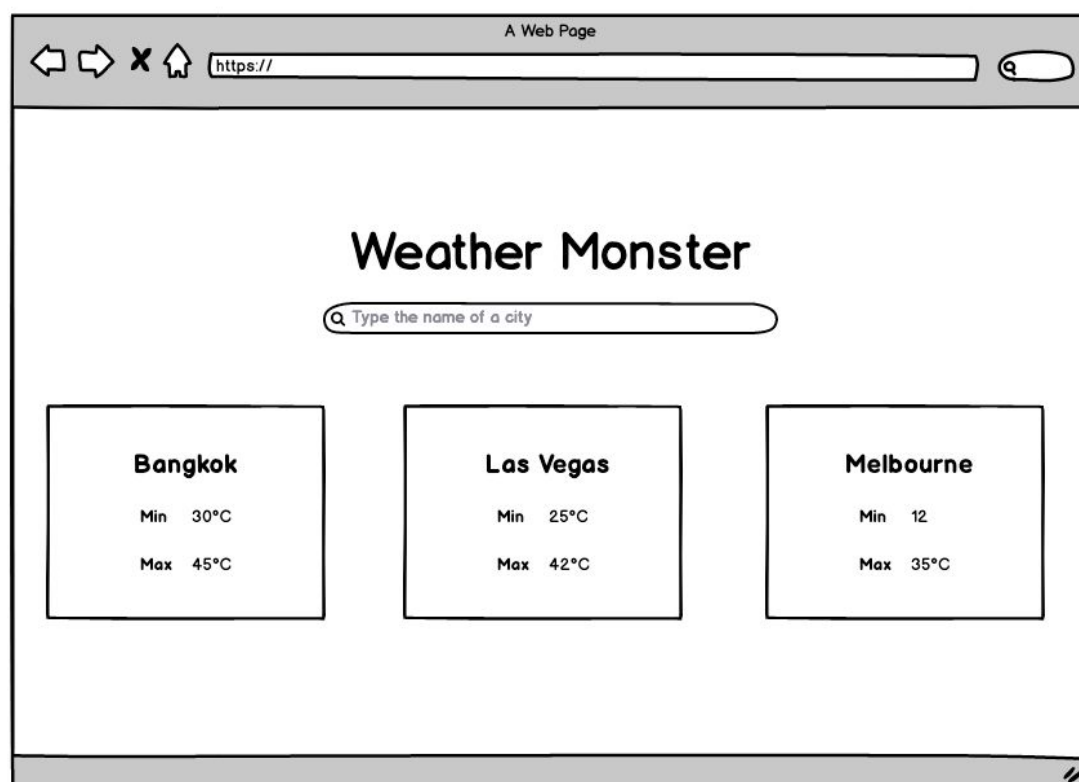
So that I can avoid traveling there

Given I have at least one city in the city list

When I click to add a new city

Then the list of cities should be ordered by the “max temperature” value

And the hot places should be displayed first



Feature 4: Removing a city from the list

As a User

I want to remove cities from the list

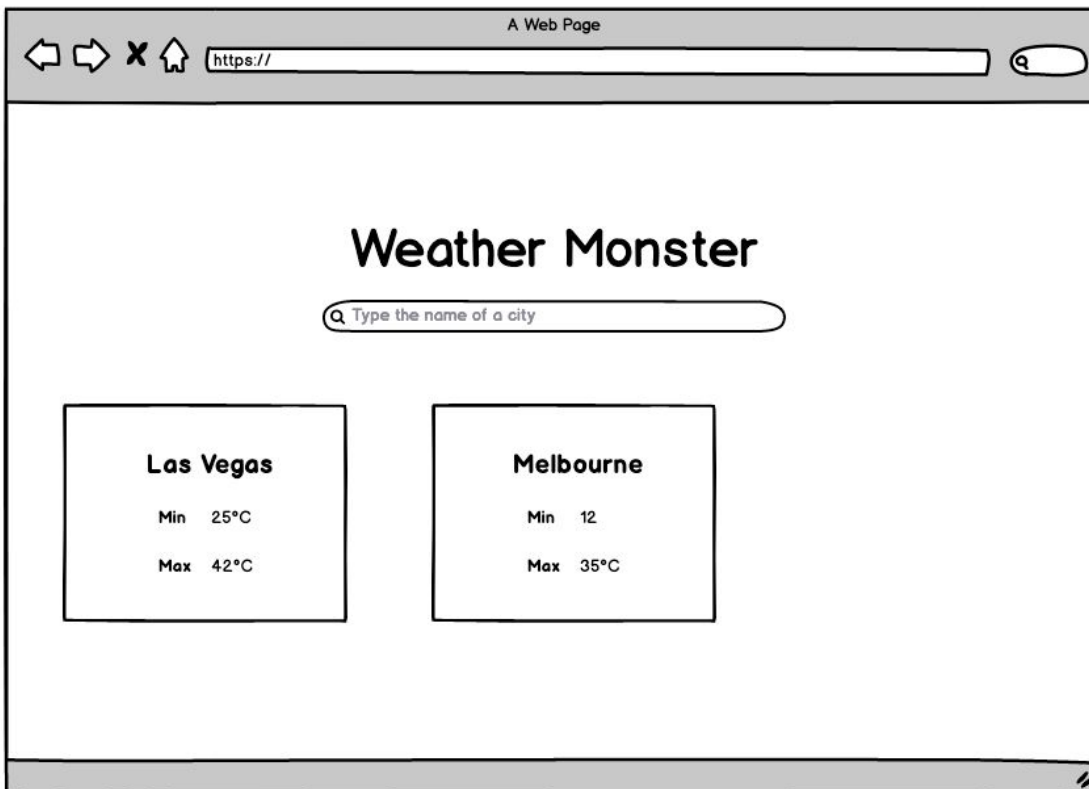
So that I can only keep the ones I really want to

Given I have at least one city in the city list

When I click on the city details

Then the list should be removed from the list

And the list should be re-ordered again



Feature 5: Make it responsive

As a User

I want to use the application in both my laptop and mobile phone

So that I can always check the hot cities I like

Given I am using a large screen (1000px wider)

When I access the application

And it has 5 cities in the list

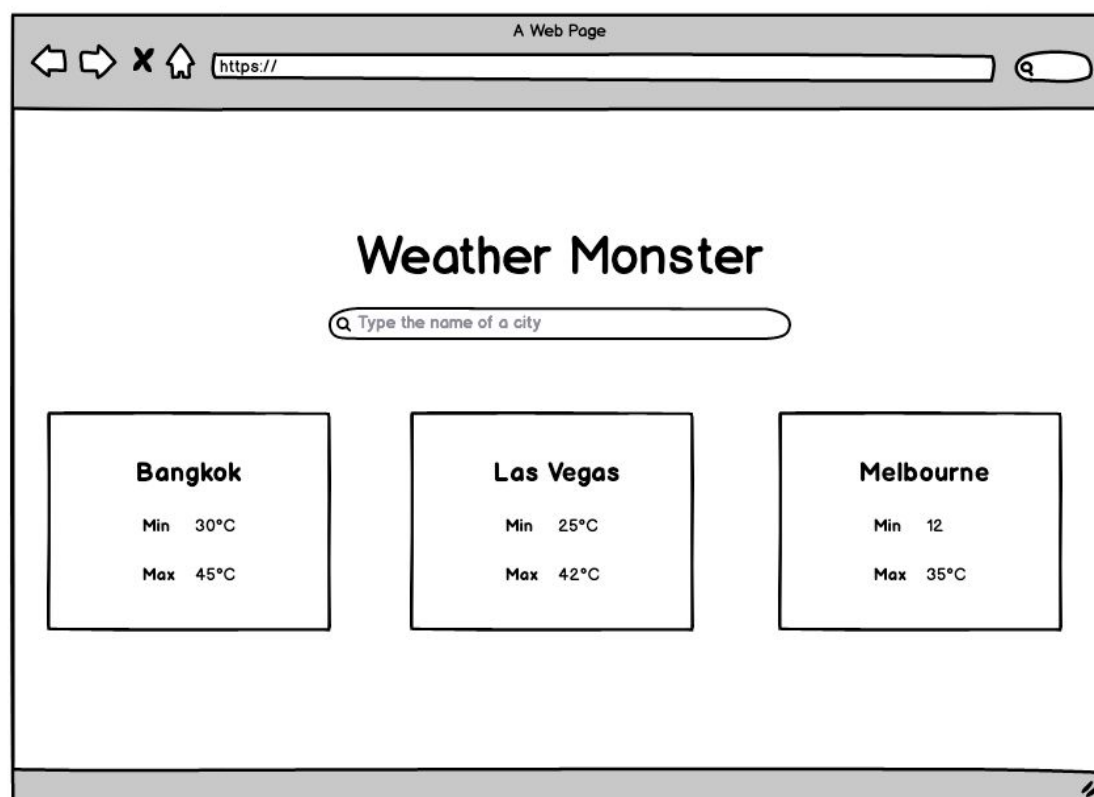
Then I should see horizontal lists, with each row displaying 3 items

Given I am using a small screen (smaller than 1000px)

When I access the application

And it has 5 cities in the list

Then I should see a vertical list, with each row displaying 1 item



FAQ

Which cities should I list?

You can create your own list of cities. There are two requirements:

- 1) The city really exists
- 2) Your list has at least 10 cities

I finished the code, but I haven't written any tests. Can I submit my code?

We'll only consider submissions which come with tests.

I'm not good at designing things, will that be evaluated?

Don't worry, we're not evaluating your designing skills.

I finished the code challenge and I'm proud of my code. What should I do next?

That's great. Before you send your code to us, make sure you have a README.md file which contains information about:

- Setting up the project
- Running the tests
- Running the app

Once all is ready, create a Github repo with your code and send the details of the repo to challenges@pylot.de.

Can I use Javascript?

Yes, you can!

Can I use Typescript?

Yes, you can!

Can I use Javascript AND Typescript at the same time?

No, please don't.

I didn't understand something. Who can I ask?

Send an email to challenges@pylot.de.