

## Objective

The objective of this workshop is learn how to use client-side routing in an application.

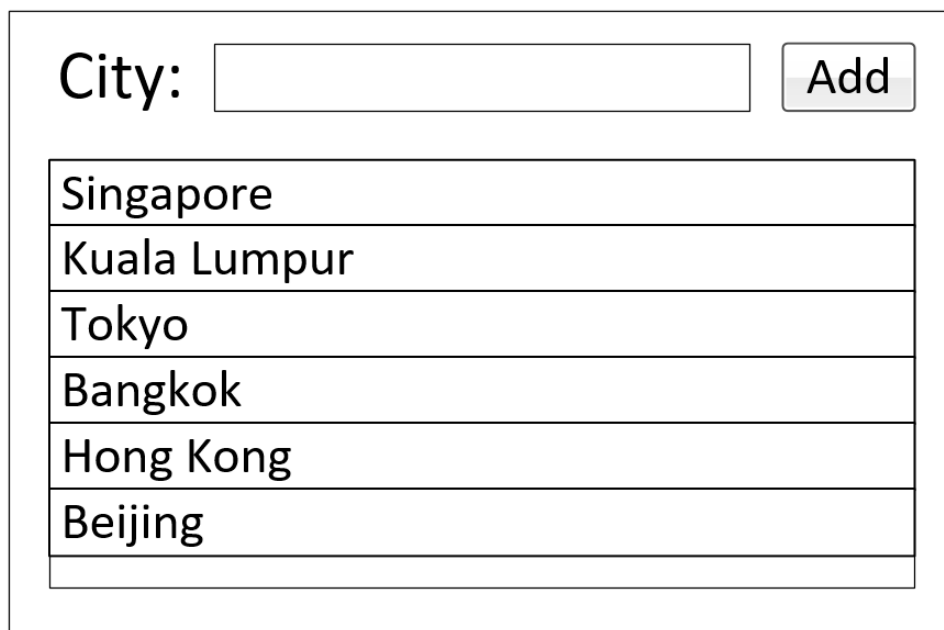
## Setup

- Generate a new Angular application
- Generate a API from <https://openweathermap.org>

## Workshop

### Task 1

You are to write a weather application in Angular which consist of 2 views; the first (Figure 1) display a list of cities. This list should be pre-populated with a set of default cities of your choice.

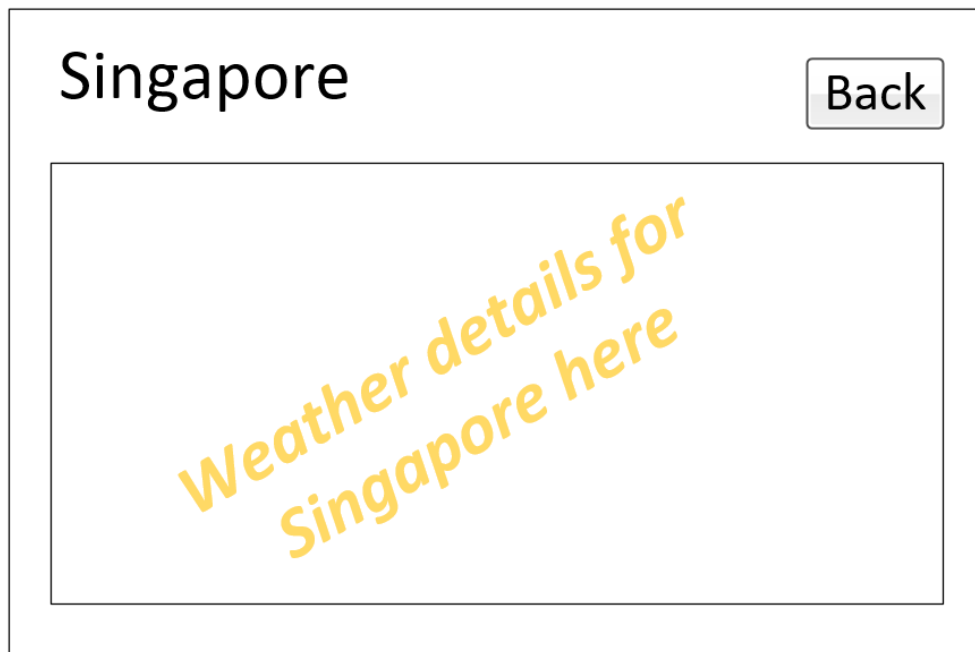


|  |     |           |              |       |         |           |         |  |
|--|-----|-----------|--------------|-------|---------|-----------|---------|--|
| City: <input type="text"/>   | Add |           |              |       |         |           |         |  |
| <table border="1"><tr><td>Singapore</td></tr><tr><td>Kuala Lumpur</td></tr><tr><td>Tokyo</td></tr><tr><td>Bangkok</td></tr><tr><td>Hong Kong</td></tr><tr><td>Beijing</td></tr><tr><td> </td></tr></table> |     | Singapore | Kuala Lumpur | Tokyo | Bangkok | Hong Kong | Beijing |  |
| Singapore  |     |           |              |       |         |           |         |  |
| Kuala Lumpur   |     |           |              |       |         |           |         |  |
| Tokyo  |     |           |              |       |         |           |         |  |
| Bangkok  |     |           |              |       |         |           |         |  |
| Hong Kong  |     |           |              |       |         |           |         |  |
| Beijing  |     |           |              |       |         |           |         |  |
|  |     |           |              |       |         |           |         |  |

*Figure 1*

The Add button allows you to add new cities to the list from the input box. The city list should not have duplicate cities.

When a city is selected (eg. Singapore), the application should transition to a new route and display the weather of the selected city



*Figure 2*

Use the following openweathermap endpoint to get the weather details

```
https://api.openweathermap.org/data/2.5/weather?q=<city>&appid=<API key>
```

You can display any amount of detail from the result.

A Back button returns to the city list (Figure 1).

### **Task 2**

Generate a PWA application manifest for your weather application

### **Task 3**

Deploy the application to Vercel

## **Optional Workshop**

*Only attempt this if you have completed the workshop.*

Allow a user to delete one or more cities from the city list.

Save the list of cities to local storage. When the application starts, it should check if local storage has a city list. If it has, it should load the city list and display it.