

## 1) Goals and Overview

- 1) To create a simple weather app.
- 2) There is **no** backend involved in this application. All the required libraries are included in the HTML file.
- 3) **This quiz is open book. Intend is for you to understand how to make API calls using jQuery AJAX, how to parse a JSON object and display the information in HTML. DO NOT copy paste any code.**
- 4) I have attached a screen recording of how your application should work.

## 2) HTML

- 1) A basic HTML with the form and cards is provided to you.
- 2) Read about Bootstrap Cards.

Resources: R1

## 3) CSS

- 1) Bootstrap CSS is included in your HTML file. It will handle the “pretty look” part.

## 4) JavaScript and jQuery:

- 1) When the user enters a zip code and clicks on Show Weather button, make a GET Request to [OpenWeatherApp](#) API with that zipcode, using jQuery.

Resources: R2

If you haven't created an account, use my API Key. [Here's](#) my API example for zipcode 07306

- 2) Figure out how to parse the JSON response to get all the information. Use a [JSON Prettier](#) to make it more readable.

Example:

If my request was successful, `success : function(data) { console.log(data.name) ; }` would print Jersey City

3) Update the cards with the API response:

- City name, longitude and latitude
- Weather main and description
- Wind speed and degree
- Temperature: temp, humidity, temp\_min and temp\_max
- **Resources: R3, Accessing JSON Data section in R4**

4) If there was an error with the request, **alert** the error message

Resources: R5.

**Use `xhr.responseText` instead of `xhr.statusText`**

## 5) Hint

A part of my success method looks like this:

```
success: function(data) {  
    $("#city-name").text(data.name);  
    $("#lat").text(data.coord.lat);  
}
```

## 6) Resources:

R1 : <https://getbootstrap.com/docs/4.0/components/card/>

R2 : [https://www.w3schools.com/jquery/ajax\\_ajax.asp](https://www.w3schools.com/jquery/ajax_ajax.asp)

R3 : [https://www.w3schools.com/jquery/html\\_text.asp](https://www.w3schools.com/jquery/html_text.asp)

R4 : <https://www.digitalocean.com/community/tutorials/how-to-work-with-json-in-javascript>

R5 : <http://thisinterestsme.com/handle-ajax-error-jquery/>