



# RSM HCD Coding Challenge

## Goal

Build a single page application that displays a list of breweries and allows the user to click on an item from the list to view more details on that brewery.

## Details

Please complete the following tasks and optional stretch goals using brewery data from the [OpenBreweryDB](#) API. Your app must be an SPA written using a modern JavaScript framework. The solution must be hosted on a public [GitHub](#) repository.

## MINIMUM REQUIREMENTS

### List All Breweries in a US City of your Choosing

- ☐ The list should display the following information for each brewery
  - ☐ Name
  - ☐ Type
  - ☐ Address (Street, City, State, Zip)
  - ☐ Website URL (clickable)
- ☐ It should pull directly from the OpenBreweryDB API and ***NOT*** be static data.

### Display the Details of a Brewery

- ☐ We ask that the detail include at least the following

**andculture**

- ❑ Brewery Name
- ❑ Address(Street, City, State, Zip)
- ❑ A map indicating the brewery's location using latitude and longitude. Depending on your framework of choice, feel free to use 3rd party libraries such as [Google Map](#), [React](#), [Vue 3 Google maps](#), or [Angular Google Maps](#).

### **Provide Navigation Within the App**

- ❑ A user should be able to select a brewery from the list. Selecting a brewery should show the details of the brewery described above.
- ❑ While viewing the details of a brewery, a user should be able to access or navigate to the list of breweries.
- ❑ A user should be able to open a brewery's website in a new tab from the list of breweries if the brewery's website is available in the data returned from OpenBreweryDB.

### **SPA Using a Modern JavaScript Framework**

- ❑ Create a single page application using a modern JavaScript framework such as
  - ❑ [React](#)
  - ❑ [Angular](#)
  - ❑ [Vue](#)
- ❑ Feel free to use any boilerplate solution such as [Create React App](#), [Angular CLI](#), or [Vite](#) as a starting point for your application.

### **Apply Basic Styling to the Application**

- ❑ The application should have basic CSS styles applied so that the data is presented in a way that the user can digest the information, and clearly identify the navigation between the listing and detail pages.
- ❑ There are no guidelines in terms of color scheme. That is entirely up to you.
- ❑ Feel free to use a style framework like [Bootstrap](#) or [Tailwind](#).

## INTERMEDIATE REQUIREMENTS (OPTIONAL)

Meet the above requirements using the following additional technologies:

- ☐ Use [Typescript](#) for the programming language.
- ☐ Use a CSS extension such as [SASS/SCSS](#) to help you style your application.
- ☐ Host your application on a hosting service such as [Heroku](#).

## ADVANCED REQUIREMENTS (OPTIONAL)

Build a custom back end to retrieve the brewery from a custom REST API of your creation in place of OpenBreweryDB. The data that the API returns can be static or can use a database technology of your choosing (e.g., [MongoDB](#)). It can be in a language and stack of your choosing; we recommend one of the following:

- ☐ [.NET Core](#) / ASP.NET MVC
- ☐ [Ruby on Rails](#)
- ☐ [Node](#) or [Deno](#)
- ☐ [Kotlin](#)

Feel free to use any boilerplate solutions to scaffold out your back end.

## Code Delivery

A link to your GitHub repository, as well as any other relevant links such as those to your hosted application, should be sent to RSM via [hcd-codechallenge@rsmus.com](mailto:hcd-codechallenge@rsmus.com) by **11:59 PM seven days from the day you received the challenge**. A 48-hour extension can be requested if needed to complete the tasks.

## Further Considerations

- ☐ All work submitted must be your own. You may use boilerplate tools to scaffold out your project, but any domain-specific code must be written by you.

- ❑ If you are invited to continue in the application process, please be prepared to demo your application and its source code. Additionally, be prepared to answer the following questions
  - ❑ Why did you select the tech stack and tools that you used?
  - ❑ How did you approach the coding challenge?
  - ❑ Why did you make certain decisions that you made in implementing your solution?
  - ❑ How much time did you spend working on your application?
  - ❑ Did you encounter tools you were unfamiliar with, and if so, what was your experience like learning to use them?