



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 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?