**Capstone Project Proposal: Cocktail Query**

**What tech stack will you use for your final project?**

For this project I will create a search engine called “Cocktail Query” using React and Node.

**Is the front-end UI or the back-end going to be the focus of your project?**

This project will have a focus on front-end user interface and experience, with a reliable back-end build.

**Will this be a website? A mobile app? Something else?**

Cocktail Query will be a website.

**What goal will your project be designed to achieve? What functionality will your app include?**

The goal of Cocktail Query is to provide an interface for users to be able to find cocktail recipes by their name or ingredients. It can be utilized as a resource for cocktail creators & consumers to use for convenience, necessity, or pleasure. There will also be a function for random cocktail generation. A user will be able to look up a cocktail, see its ingredients/recipe and a photo. I would like to explore having a “known allergens” section under each cocktail. Ideally, cocktail pages will also show “related” cocktails (cocktails that are similar in recipe/build). For example, the “Long Island Tea” page will show “Blue Long Island”, “Tokyo Iced Tea”, “AMF”, etc. in its “related drinks” section.

**What kind of users will visit your app? In other words, what is the demographic of your users?**

This website will be built for both cocktail creators & consumers. This being bartenders, customers, restaurant manager & staff, or simply people who like to make drinks at home. Ideally, Cocktail Query will be utilized by bartenders & their guests in the workplace to help aid communication around cocktail preferences. Though anyone over the age of 21 can take advantage of what this website will have to offer. The front-end design will be aimed toward younger crowds that may be more likely to utilize technology in this setting. Though, I will ensure a user-friendly experience for people of all ages and technological abilities.

**What data do you plan on using? How are you planning on collecting your data? What kinds of issues might you run into with your API?**

I plan on utilizing a free API named “theCocktailDB”. This API has endpoints for searching the cocktail by name, first letter, ingredient, alcohol content (with or without), cocktail ID, ingredient ID, and for random cocktail generation. I will be utilizing all of these endpoints in this project. The API does not already have any information built in regarding allergens, so I would have to figure out how to implement that if possible.

**What does your database schema look like? Is there any sensitive information you need to secure?**

I will explore the possibility of requiring user sign-ins to confirm age, thus needing to secure user tokens and private information like birthdays, emails, passwords, etc. I will have Users, Cocktails, Cocktails\_Ingredients, Ingredients, and Allergens tables.

Users table columns: id (PK), username, email, password\_hash, birthdate

Cocktails table columns: id (PK), name, ingredients, image\_url

Cocktails\_Ingredients table columns: id (PK), cocktail\_id (FK)m ingredient\_id (FK)

Ingredients table columns: id (PK), name, is\_allergen

Allergens table columns: id (PK), name