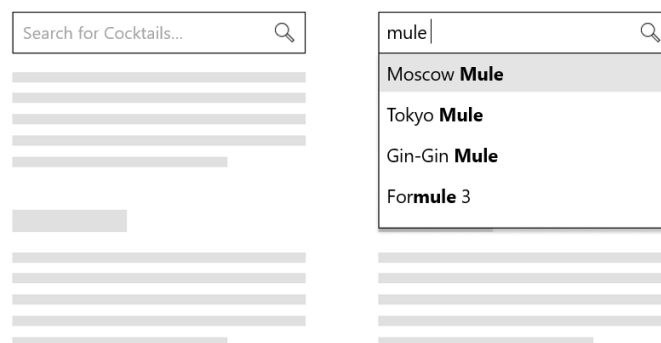## UI Development Challenge

Congratulations, you have made it through the first round of interviews. As a next step, we would like to get to know you from a technical perspective and see how you code. As your time is valuable, limit your investment for the challenge to 3 hours. You might be unable to finish everything perfectly, that is totally fine and part of the challenge.

Task

Build a search input field with a typeahead dropdown showing suggestions for names of cocktails. As soon as the user starts to type, suggestions start to appear in a dropdown.

The challenge is comprised of the following components:
- Input field: Where the user searches for a cocktails
- Result list: Suggestions for cocktails based on user input
- Suggestion: A single cocktail suggestion in the result list
- Selected suggestion: A single cocktail suggestion highlighted. Only one suggestion can be selected at any given time, the default suggestion is the first in the list

The search field should be accessible to keyboard-only users as well and feature the following key bindings:
- Arrow down ↓: Select next suggestion
- Arrow up ↑: Select previous suggestion
- Enter ↵ or click: Show the product image fullscreen (redirect to image URL; in a real application this would display the cocktail recipe page, but that page is not part of the challenge)

Technical constraints

You are free to choose the web technology you like. Choose a framework you already know, a new one you would like to learn or try to solve the challenge without any framework at all.

The styling and user-interactions are part of the challenge as well, and the above screenshot is to be understood as a mock-up and not a definitive screen design. You are therefore free to choose your own design. Please do not use an existing typeahead component or a UI library: it would spoil the fun of the challenge.

If you choose to use AI (ChatGPT, Copilot) for your solution, please clearly specify for which parts of the code and why. Your transparency will help us better understand your approach and decision-making process.

The cocktail recipe API is publicly available at https://www.thecocktaildb.com/api.php. A sample request could look like this:

www.thecocktaildb.com/api/json/v1/1/search.php?s=margarita

What we are looking for

- Is the challenge solved according to the instructions?
- Is it a desirable solution for an end user?
- Does the solution separate concerns?
- Does the code follow best practices?

Solution hand over

Preferably publish your solution to GitHub and send us a link. If you prefer to hand over your solution another way, please contact us beforehand, some file sharing services like Dropbox or WeTransfer are not available from within the Swiss Post.

Questions for the next interview

In the next interview you get to present your solution. We will discuss the following points together:

- What do you like about your solution?
- What would you improve if you had another day?
- Plus 2-3 questions about your code