

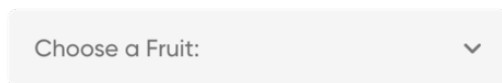
Code Challenge

The goal of this challenge is to understand your web development and UI implementation capabilities.

We were hoping you could create a combo box according to the provided mockup.

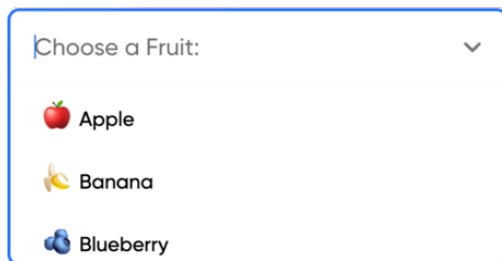
To be more specific (since combo box is such an overused term), here's what we're looking for: a combination of a drop-down list and an input text field, allowing the user to either select a value from the list or start typing to narrow down the available options.

Initial State with placeholder:



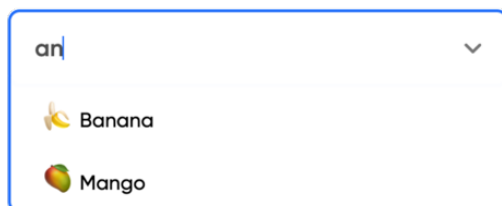
A light gray rounded rectangle containing the text "Choose a Fruit:" followed by a small downward-pointing chevron icon.

Opened with no selection:



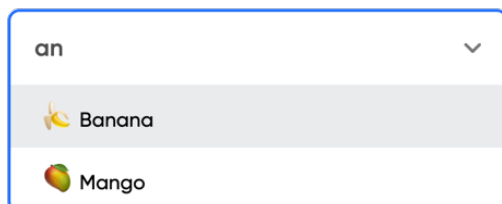
A light gray rounded rectangle with a blue border. The top section contains the text "Choose a Fruit:" and a chevron icon. Below this, three options are listed: "Apple" with a red apple emoji, "Banana" with a yellow banana emoji, and "Blueberry" with a blueberry emoji.

With user input (notice the filtered results):



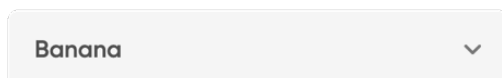
A light gray rounded rectangle with a blue border. The top section contains the text "an" and a chevron icon. Below this, two options are listed: "Banana" with a yellow banana emoji and "Mango" with a mango emoji. The "Apple" option is not visible.

Item hover:



A light gray rounded rectangle with a blue border. The top section contains the text "an" and a chevron icon. Below this, two options are listed: "Banana" with a yellow banana emoji and "Mango" with a mango emoji. The "Banana" option is highlighted with a light gray background.

Item selected:



A light gray rounded rectangle containing the text "Banana" followed by a small downward-pointing chevron icon.

Additional Items:

A production-ready combo box is a considerable effort that goes beyond the scope of this code challenge, including, for example:

- Accessibility
- Keyboard navigation (and support for other alternative input methods, like touch)
- Animations
- Dynamic drop-down positioning according to available screen space
- Alternate representations for mobile
- Auto-closing when the user interacts with something else

We don't expect you to implement all these - If you have time, please pick only one.

Requirements:

- You are free to use whatever web technology you are most comfortable with.
- Please do not use a combo box library - we want to see your take on how to implement one.
- Please include a README file in your project with any considerations you have and instructions on how to run it.

Submission

You can deliver your submission in a variety of ways. The preferred method is to host the code on Github, ideally with the history of commits while working through the challenge. Other options would be a zipped folder hosted on OneDrive, Dropbox, Google Drive, etc. Then, please email your submission back on the same thread where we sent these instructions.

If you do it in a private Github repo, please add paulconlin and cassiozen as collaborators when you're finished so we can review it.

Good luck!