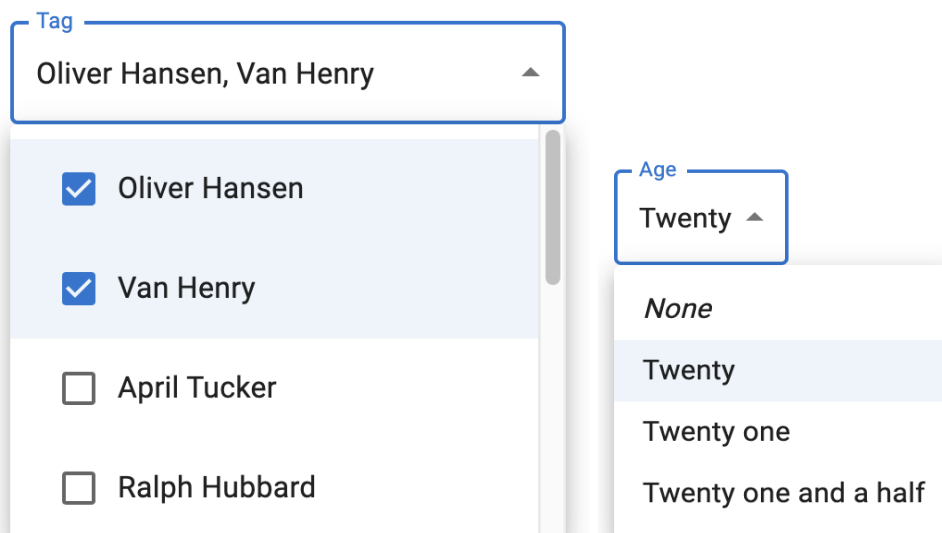# Frontend Engineer Challenge

## Objective

Using React or vanilla (plain) Javascript, build a reusable dropdown menu component. Please do not use a pre-built dropdown from a component library. We expect you to build this from scratch.

## Requirements[1]

### Design and Interface[2]



- [ ] A user should be able to open and close the dropdown menu.
- [ ] The component must support a single selected option or multiple selected options. Please demonstrate both use cases separately.
- [ ] A user should be able to select and deselect all options at once.
- [ ] The selected option or options must be visible when the dropdown is closed.

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[1] You are encouraged to include any additional features that you believe are semantically or aesthetically crucial to a dropdown component.
[2] Your component does not need to look identical to the designs above.

## API (via Component Props)

- ☐ The component should support both single select and multi select.
- ☐ The component should have a flexible API, making it reusable across different parts of one or more applications. Consider it part of a component library.

## Performance

- ☐ The component should render large lists efficiently.
- ☐ The component should not perform excessive computations.

## Readability

- ☐ The code should be readable and a fellow developer should be able to dive right into your code.

# After you are done

- ☐ Please email your recruiter with either a zip file of your project folder or a github link to the project directory.
- ☐ Don't forget to include instructions on how to run your project.
- ☐ Please DO NOT include a node_modules directory as part of your submission.