

# UX Engineer tech test

## Test instructions

We would like you to build a react component to the specification detailed below. Submitted code should be considered production-ready, documented for engineers, and be accompanied by details of any tests conducted.

You can use any libraries you see fit for styling.

You can submit your work in a git bundle or zip file. We should be able to run your work via npm or yarn, all dependencies should be included in the package.json.

We expect you to spend around 2 hours to complete this test.

## Scope of work

We'd like you to build a reusable single-select dropdown component that will be used by a software engineer to build part of an assignment workflow for a web application. The software engineer will be responsible for getting the data (string) into and out of the component. You are responsible for ensuring the interaction behavior is as expected, can display the data as designed, and works seamlessly in Chrome and Firefox.

The dropdown component should be generic as it will be reused by developers for different types of lists. You should exemplify its use in your React app by using it in a component that allows a user to assign a piece of work to an individual ( See assigness.json for test data you can use to pass to the dropdown component ).

The order of the assignee list should be organised alphabetically.

The list of possible assignees can become quite large, sometimes up to 30 individuals will appear in the list meaning that for lists of 10 or more items you will need to:

- Include an input that filters individuals based on the text entered
- Allow the user to scroll the contents of the dropdown

Once an individual has been selected:

- The dropdown should close and the input should update to reflect the selected individual's name.

- If the user re-opens the dropdown the selected individual should be visibly selected in the dropdown list.
- The background colour of the individual selected in the dropdown list should default to the design but be customisable by the Software Engineer.

A selection cannot be removed, only changed to another individual in the list.

## UI designs

Component state without selection and menu closed:

ASSIGN ITEM:



Component state without selection and menu open:

### ASSIGN ITEM:

Select

Alex

Andrea

Annabel

Clive

Daisy

Component state without selection and menu open (showing filter input):

ASSIGN ITEM:

Select

Search for a user

Alex

Andrea

Annabel

Clive

Daisy

Fiona

Harold

James

Jessica

Malcolm

Component state with selection and menu open:

ASSIGN ITEM:

Annabel	⌵
Alex	
Andrea	
Annabel	
Clive	
Daisy	

Component state with selection and menu closed:

ASSIGN ITEM:

Annabel

(For the purpose of this test, system fonts and relative approximate sizes of spacing and elements are acceptable)