**Interview Exercise**

The exercise is to build a type-ahead search widget. See the wireframe below:

stu

**stu**dent on the bus

useless **stu**ff

**stu**bhub tickets

user **stu**dy

**Allowed technologies**

Search widget should be built only using vanilla HTML, CSS, and JS only. No CSS pre-processors, HTML template languages, and JS frameworks are allowed. No build tools are allowed.

**Browsers and devices support**

Search widget should work with mouse, touch and keyboard interactions in Safari 11.0+ on Mac and iPhone (or Xcode simulator). Use the latest languages features within the support limit.

**Detailed requirements**

**• Search icon (magnifying glass)**

• should not be interactive

**• Reset button**

• should be shown if one or more characters entered in the search input field

• should clear input field value on click, touch or ‘enter’ press • should set focus on the input field after clearing input field value if the input field was not in focus when the reset button has been pressed **• Results drop down**

• should be shown if one or more characters entered in the search input field

• should contain a list of phrases that include the search query string. Query string inside each phrase should be highlighted in bold

• should be scrollable if more than 5 matching results have been found. Browser-native inertia scroll should work on mobile

• should be updated on every query string change

• should hides if shown and the user pressed outside the search widget **• Keyboard navigation**

• the user should be able to navigate back and force between the input field, reset button and drop down using tab or shift+tab keys • the user should be able to navigate through drop-down items using up and down arrows

• when user press ‘ESC’ key

• if the focus is on the reset button, drop-down menu or on one of its items, the focus should be set on the input field

• if the focus is on the input field, input field value should be cleared **• Design and style**

• any design and styles can be used on your taste. Try to keep it simple, yet elegant

**• Data**

• any set of at least 50 phrases can be used on your taste

**Expected results**

One HTML file, that contains template, styles, and scripts inside. The file should work from the file system and not require a local server to run.

**Estimated time for exercise completion**

2 hours