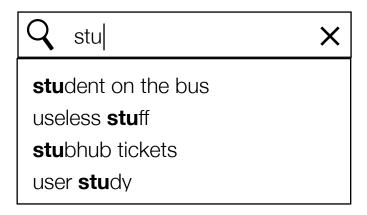# Interview Exercise

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

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