



Interview Exercise

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

 stu 
<div><div>student on the bus</div><div>useless stuff</div><div>stubhub tickets</div><div>user study</div></div>

Allowed technologies

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

Detailed requirements

- Search icon
 - 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 input field after clearing input field value if input field was not in focus when reset button has been pressed
- Results drop down
 - should be shown if one or more characters entered in the search input field
 - should contain list or phrases that includes search query string. Query string inside each phrase should be highlighted in bold
 - should be scrollable if more than 5 matching results has been found. Browser native inertia scroll should work on mobile
 - should be updated on each query string change
 - should hide if shown and user pressed outside the search widget

- Keyboard navigation
 - user should be able to navigate back and forth between input field, reset button and drop down using tab or shift+tab keys
 - user should be able to navigate through drop down items using up and down arrows
 - when user press 'esc' key
 - if focus is on reset button, drop down menu or on one of its items, focus should be set on input field
 - if focus is on 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 and 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. File should work from the file system and not require local server to run.

Estimated time for exercise completion

2 hours