

# Decision Analysis Report - Dropdown Search Bar

Project Name: Tresearch

Application Type: Web Application

Trial By Fire

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## Purpose

The purpose of this document is to recommend a react component library to create a dropdown and autocomplete search bar.

## Technology Comparisons

- React-search-box
  - Autocomplete search box
- React-search-field
- React-select
  - React component for select input control with multiselect, autocomplete, async and creatable support

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## Metrics

- Allows virtualization of search data
  - Important for working with large data sets. Renders large lists of data
- Render Speed
  - Average rendering speed of a list of 5000 tags
- Versions within the last two years
  - On average, how often does a component update? We want to use a component that is kept up to date but not too frequently.

	react-search-box	react-search-field	react-select
Data virtualization (1)	No (0)	No (0)	Yes (1)
Render Speed (0.75)	2.3 s (0.5)	1.8 s (1)	1.9 s (0.75)
Versions within the last 2 years (0.5)	8 (1)	5 (0.75)	19 (0.5)
Total	0.875	1.125	1.812

## DAR Recommendation

Based on the scores of the DAR, it is clear that react-select should be recommended based on the fact that allows for data virtualization as we are working with big sets of data.