

First the throttling I think that makes code smoother and easier and also Throttling sometimes also called throttle function is a practice used in websites. Throttling is used to call a function after every millisecond or a particular interval of time only the first click is executed immediately.

With throttling, you limit the frequency of function invocations. For example, you might decide to execute a function at most once every 1500 milliseconds. This prevents the function from being called too frequently and helps maintain a smoother performance.

But

The question said what do I expect if use throttle with the search input

I think that implementing the code smoothly and taking time to give our a logical answer, but it is maybe make called API more slowly

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**Debouncing** in JavaScript is a practice used to improve browser performance. There might be some functionality in a web page that requires time-consuming computations. If such a method is invoked frequently, it might greatly affect the performance of the browser, as JavaScript is a single-threaded language.

And this explains that use the throttle more better than debounce because our code did smoothly and do not need used debounce

And our code call API when write each letter