- what do you expect if we use throttle technique with the search input of the above project?

Throttling will limit how often a function can be called in a given period of time. It is useful for improving the performance and responsiveness of web pages that have event listeners that trigger heavy or expensive operations, such as animations, scrolling, resizing, fetching data, etc.

- what do you expect if we use debounce technique with the search input of the above project?

The debounce function prevents the keyup event from being processed until the user has ceased typing for a certain length of time. This eliminates the requirement for your UI code to process each event and substantially minimises the number of API calls made to your server.

A debounce function would ensure that only one request is submitted. For a site that takes input from a text box with an autofill or suggested search box, debounce can ensure that the input was accepted only after every letter was typed into the box.