



DEBOUNCING AND THROTTLING

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INTRODUCTION

Feature	Debounce	Throttle
Use Case	Wait until user stops	Limit how often function runs
Example	Search bar, form input	Scroll events, mousemove
Triggered	After inactivity	At fixed intervals






USECASES

- Debouncing (Wait until user stops acting, then respond)

Best for: input fields, search, resize, filters, etc.



1. Google Search – Suggestions show after user stops typing
 2. Amazon Filters – Price sliders or brand filters apply after input settles
 3. LinkedIn Search Bar – Delays fetching results until typing stops
 4. Netflix Search – Shows suggestions after pause, not every keystroke
 5. Flipkart Product Filters – Debounced filter application
 6. Twitter Mentions – Autocomplete triggers after you stop typing @
 7. Notion – Auto-save happens after typing stops
 8. Medium Editor – Word count or suggestions update after typing pause
 9. Zomato Search – Debounced restaurant suggestions based on input
 10. Gmail Compose – Auto-save draft after typing pauses
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USECASES

- Throttling (Limit how often a function runs)



Best for: scroll, resize, drag, mouse move, live updates, etc.

1. Meta Facebook Feed – Infinite scroll API triggers once per few seconds
 2. YouTube Comments – Load more comments on scroll, throttled
 3. Instagram Reels Scroll – Loads next chunk with scroll throttling
 4. Twitter Timeline – Updates tweets once every few seconds
 5. Google Maps – Recalculates view only after throttled map drag
 6. Airbnb Map Filters – Updates property pins at throttled intervals
 7. Canva Resize Events – Throttled UI update when window resizes
 8. Figma Mouse Events – Dragging/moving shapes is throttled
 9. LinkedIn Notifications – Throttled real-time badge updates
 10. Amazon Scroll Tracking – Tracks scroll depth, throttled to avoid spam
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CODE UNDERSTANDING

<https://raw.githubusercontent.com/priya42bagde/JavaScriptCodingInterviewQuestions/refs/heads/master/Imp%20Topics/Debaouncing%20and%20Throttling>





THANK YOU