From JavaScript Technical Interviews to Real-World Challenges!

% The Challenge: Custom Event Emitter Implementation

An EventEmitter is a cornerstone of Node.js and browser-based JavaScript, facilitating asynchronous event handling with elegance and efficiency. The task? Create a lightweight EventEmitter from scratch, showcasing abilities in:

Subscribing to Events: Crafting a method to add event listeners seamlessly. 📫

Emitting Events: Implementing an emit function to trigger those listeners, passing along essential data.

Removing Event Listeners: Developing a strategy to detach listeners, ensuring our emitter is as dynamic as it is reliable.

Handling 'Once' Listeners: Adding a sprinkle of magic to handle listeners that vanish after a single use!



Step-by-Step Algorithm for Success

Initiate and Subscribe: Start by checking if our event already has listeners, and if not, create a space for them. It's all about making connections!

Broadcast Loud and Clear: Emit events with precision, ensuring each listener gets the memo—asynchronously, of course, to keep things smooth and non-blocking.

Selective Hearing: Implement a method to remove specific listeners, because sometimes, it's okay to change your mind.

Once in a Lifetime: Design a mechanism for those once-off listeners, making each event count.

github link: https://lnkd.in/dw2baWHC

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```
emitter.js
 on(eventName, listener) {
   if (!this.listeners[eventName]) {
     this.listeners[eventName] = [];
   this.listeners[eventName].push(listener);
 emit(eventName, data) {
   // If there are listeners for the event, call them with the data
const eventListeners = this.listeners[eventName];
     eventListeners.forEach(listener => {
        setTimeout(() => listener(data), 0);
 off(eventName, listenerToRemove) {
   const eventListeners = this.listeners[eventName];
   if (eventListeners) {
  // Filter out the listener to remove
      this.listeners[eventName] = eventListeners.filter(listener => listener !== listenerToRemove);
 once(eventName, listener) {
   const onceWrapper = (data) => {
     listener(data);
     this.off(eventName, onceWrapper);
   this.on(eventName, onceWrapper);
```

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