

## **Product Requirements Prompt (PRP)**

### **Feature: Live Search Filter**

**Version: 1.0**

### **Objective**

To modify the index.html file to include a live search filter. This involves adding a text input to the sidebar and implementing the JavaScript logic to filter the displayed plugin cards in real-time based on user input, matching against both plugin name and developer.

### **Execution Plan**

#### **Phase 1: HTML Structure Modification (index.html)**

##### **1. Add Search Input:**

- Locate the <aside> element that serves as the sidebar.
- Below the <h2>Filters</h2> heading, add a <div> to wrap the search input for styling and spacing.
- Inside this div, create an <input> element with the following attributes:
  - id="search-input"
  - type="text"
  - placeholder="Search by name or developer..."
- Apply Tailwind CSS classes to the input for styling (e.g., w-full, p-2, rounded-md, theme-appropriate background and text colors).

#### **Phase 2: JavaScript Logic Refactoring & Implementation (index.html)**

The main script block will be refactored to make the rendering logic reusable and to add the new filtering functionality.

##### **1. Refactor Card Rendering:**

- The existing logic that iterates through window.vaultData and creates card elements will be extracted into a new,

reusable function named `renderCards(pluginToRender)`.

- This function will accept one argument: an array of plugin objects.
- The function's logic will be:
  - Get a reference to the `#plugin-grid-container`.
  - Clear the container's `innerHTML`.
  - Loop through the `pluginToRender` array and create/append a card for each plugin, just as the current code does.

## 2. Implement Filtering Logic:

- Inside the main `DOMContentLoaded` event listener:
  - Get a reference to the new `#search-input` element.
  - Call `renderCards(window.vaultData)` once initially to display all plugins when the page loads.
  - Attach an input event listener to the `#search-input` element.

## 3. Implement the Event Listener Callback:

- The function triggered by the input event will perform the following steps:
  - **a. Get Query:** Get the current value from the search input and convert it to lowercase for case-insensitive matching (`const query = searchInput.value.toLowerCase();`).
  - **b. Filter Data:** Use the `.filter()` array method on the original, complete `window.vaultData` array. The filter condition will return true if either the plugin's name (converted to lowercase) or the plugin's developer (converted to lowercase) includes the query string.
  - **c. Re-render:** Call the `renderCards()` function, passing the newly filtered array as its argument. This will cause

the UI to instantly update with only the matching plugins.

#### **Final Review**

- Confirm the search input field is correctly placed and styled in the sidebar.
- Verify that the card rendering logic has been successfully refactored into a reusable function.
- Test the input event listener to ensure it fires on every keystroke.
- Confirm the filtering is case-insensitive and correctly matches against both name and developer.
- Verify that clearing the search input results in the full list of plugins being displayed again.

**Approval Request:** The Product Director is requested to review this PRP. Upon approval, the Code Engine will proceed with the execution phase.