

Just Type Search Feature

Overview

The “Just Type” search feature is a universal search system inspired by macOS Spotlight and Windows Search. It allows users to quickly search for apps, contacts, documents, and commands from anywhere in the application by simply typing.

Features

Core Functionality

- **Universal Trigger:** Start typing anywhere to open search
- **Keyboard Shortcut:** Cmd/Ctrl + K to open search manually
- **Smart Detection:** Automatically detects when user is typing in input fields and ignores those events
- **Category Filtering:** Filter results by category (All, Navigation, Financial, Documents, etc.)
- **Keyboard Navigation:** Full keyboard support with arrow keys, Enter, Tab, and Escape
- **Real-time Search:** Instant search results as you type

Design

- **Anchored to Top:** Search bar appears at the top of the viewport for easy access
- **Glassmorphic Effects:** Uses backdrop blur and semi-transparent backgrounds
- **webOS Design System:** Fully integrated with webOS design tokens for consistency
- **Light/Dark Mode:** Automatic support for both color schemes
- **Smooth Animations:** Fade-in and slide-down animations for a polished experience
- **Responsive:** Works on all screen sizes from mobile to desktop

Keyboard Shortcuts

Shortcut	Action
Cmd/Ctrl + K	Open search
Any letter/number	Open search with that character
↑ / ↓	Navigate through results
Enter	Select highlighted result
Tab	Cycle through categories
Esc	Close search

Architecture

Components

1. **JustTypeSearch** (`/components/webos/just-type-search.tsx`)
 - Main search UI component
 - Handles search input, results display, and keyboard navigation
 - Uses zustand store for state management

2. **GlobalSearchTrigger** (`/components/webos/global-search-trigger.tsx`)
 - Listens for global keyboard events
 - Opens search when appropriate keys are pressed
 - Ignores typing in input fields

3. **useUniversalSearch** (`/hooks/webos/use-universal-search.ts`)
 - Zustand store for search state
 - Manages searchable items registry
 - Handles search logic with fuzzy matching

Styling

- **Main Styles:** `/styles/just-type-search.css`
- **Design Tokens:** Uses variables from `/styles/webos-design-system.css`
- All styles are theme-aware and support light/dark modes automatically

Usage

Basic Usage

The search is automatically available in the application. Users can:

1. Press `Cmd/Ctrl + K` to open search
2. Start typing anywhere (outside of input fields) to open search
3. Type to filter results
4. Use arrow keys to navigate
5. Press Enter to select a result
6. Press Escape to close

For Developers

Registering New Searchable Items

You can register new items to be searchable from anywhere in your application:

```

import { useUniversalSearch } from '@hooks/webos/use-universal-search';
import { FileText } from 'lucide-react';

function MyComponent() {
  const { registerSearchable, unregisterSearchable } = useUniversalSearch();

  useEffect(() => {
    registerSearchable({
      id: 'my-feature',
      title: 'My Feature',
      description: 'Description of my feature',
      category: 'Apps',
      icon: FileText,
      path: '/dashboard/my-feature',
      keywords: ['feature', 'custom', 'search'],
    });
  });

  return () => {
    unregisterSearchable('my-feature');
  };
}, []);

return <div>My Component</div>;
}

```

SearchResult Interface

```

interface SearchResult {
  id: string;           // Unique identifier
  title: string;         // Display title
  description?: string; // Optional description
  category: string;     // Category for filtering
  icon?: LucideIcon;    // Optional icon component
  path?: string;         // Navigation path
  action?: () => void; // Custom action on select
  keywords: string[];   // Search keywords
}

```

Integration

The feature is integrated into the root layout (`/app/layout.tsx`):

```

import { JustTypeSearch } from '@/components/webos/just-type-search';
import { GlobalSearchTrigger } from '@/components/webos/global-search-trigger';

export default function RootLayout({ children }) {
  return (
    <html>
      <body>
        <Providers>
          <GlobalSearchTrigger />
          <JustTypeSearch />
          {children}
        </Providers>
      </body>
    </html>
  );
}

```

Default Searchable Items

The system comes with pre-configured searchable items:

- **Navigation:** Dashboard, My Community, My Household
- **Financial:** Payments, Billing
- **Documents:** Community documents, Files
- **Communication:** Messages, Notifications, AI Assistant
- **Apps:** Calendar, Notes, Email
- **Settings:** Profile, System Settings
- **Admin:** Admin Panel, User Management, Payment Management (role-based)

Accessibility

- **Keyboard Navigation:** Full keyboard support
- **ARIA Labels:** All interactive elements have proper labels
- **Focus Management:** Automatic focus on search input when opened
- **Screen Reader Support:** Semantic HTML and ARIA attributes
- **Reduced Motion:** Respects `prefers-reduced-motion` preference
- **Color Contrast:** Meets WCAG AA standards in both light and dark modes

Performance

- **Lazy Loading:** Component only renders when search is open
- **Debounced Search:** Search is optimized to prevent excessive re-renders
- **Virtual Scrolling:** Results list handles large datasets efficiently
- **Memoization:** Search results are memoized to prevent unnecessary computations

Browser Compatibility

- Chrome/Edge (latest)
- Firefox (latest)
- Safari (latest)

- Mobile browsers (iOS Safari, Chrome Mobile)

Future Enhancements

- [] AI-powered search suggestions
- [] Search history and recent searches
- [] File content search
- [] Integration with external services (Google Drive, Dropbox)
- [] Voice search
- [] Search analytics

Troubleshooting

Search not opening when typing

- Check if you're typing in an input field or textarea
- Verify that JavaScript is enabled
- Check browser console for errors

Search results not appearing

- Ensure items are registered with the search system
- Check that keywords match your search query
- Verify that the category filter is set to "ALL" or the correct category

Styling issues

- Ensure `/styles/just-type-search.css` is imported
- Check that webOS design tokens are loaded
- Verify CSS variables are defined in `:root`

Support

For issues or feature requests, please contact the development team or create an issue in the repository.

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