Dynamic Tab Header Component

A React component that provides a dynamic tab management system with overflow handling, horizontal scrolling, and persistent storage.

🚀 Features

- Dynamic Tab Creation: Add unlimited tabs with the "+" button
- Overflow Management: First 20 tabs visible, additional tabs in dropdown
- Horizontal Scrolling: Smooth scrolling for visible tabs when more than 9 tabs
- Tab Editing: Double-click tab titles for inline editing
- Persistent Storage: Tabs and active state saved in localStorage
- Responsive Design: Optimized for desktop, tablet, and mobile
- Accessibility: Full keyboard navigation and ARIA support

🧠 Core Logic

Tab State Management

```
const [tabs, setTabs] = useState([...]);      // Tab array with id, title, isEditing
const [activeTab, setActiveTab] = useState(1); // Currently selected tab ID
const [isDropdownOpen, setIsDropdownOpen] = useState(false); // Dropdown state
```

Overflow Logic

```
// Split tabs into visible (first 20) and overflow
const visibleTabs = React.useMemo(() => tabs.slice(0, 20), [tabs]);
const overflowTabs = React.useMemo(() => tabs.slice(20), [tabs]);
const hasOverflow = React.useMemo(() => tabs.length > 20, [tabs.length]);
```

Auto-Scroll Implementation

```
const scrollToActiveTab = useCallback((tabId) => {
  const tabIndex = visibleTabs.findIndex(tab => tab.id === tabId);
  if (tabIndex !== -1 && visibleTabsRef.current) {
    const tabElement = visibleTabsRef.current.children[tabIndex];
    // Center the active tab in the scrollable container
    const scrollLeft = tabLeft - (containerWidth / 2) + (tabWidth / 2);
    visibleTabsRef.current.scrollTo({ left: scrollLeft, behavior: 'smooth' });
  }
}, [tabs]);
```

Dropdown State Management

```
const removeTab = useCallback((tabId) => {
  const wasInOverflow = tabs.length > 20 && tabs.findIndex(tab => tab.id === tabId)
>= 20;

  // Force dropdown re-render when removing overflow tabs
  if (wasInOverflow && isDropdownOpen) {
    setIsDropdownOpen(false);
    setTimeout(() => {
      if (updatedTabs.length > 20) setIsDropdownOpen(true);
    }, 50);
  }
}, [tabs, isDropdownOpen]);
```

🎨 Key Components

Visible Tabs Container

- Displays first 20 tabs horizontally
- Horizontal scrolling with custom scrollbar
- Auto-scroll to active tab functionality

Overflow Dropdown

- Appears when more than 20 tabs exist
- Shows tabs 21+ in scrollable dropdown
- Force re-render on tab removal to prevent stale data

Persistence Layer

- localStorage integration for tabs and active state
- Automatic save on state changes
- Restore on component mount

📱 Responsive Breakpoints

- Desktop: Full tab width (120px-200px)
- Tablet (768px): Medium tabs (100px-150px)
- Mobile (480px): Compact tabs (80px-120px)

🎛️ Interactions

Action	Result
Click tab	Activate tab
Double-click title	Edit mode
Click × button	Remove tab
Click + button	Add new tab
Click ⋯ button	Toggle dropdown
Escape key	Cancel editing
Enter key	Save title

Screenshots

Dynamic Tab Header Demo

Interactive tab management with overflow handling

Tab 1 | Google | Tab 3 | Tab 4 | Tab 5 | Tab 6 | Tab 7 | Tab 8 | Tab 9 | ... (7) | +

Content for Google

This is the content area for the active tab. Replace this with your actual content.

Dynamic Tab Header Demo

Interactive tab management with overflow handling

Tab 1 | Tab 2 | Tab 3 | Tab 4 | Tab | --- (3) | +

Content for Tab 23

This is the content area for the active tab. Replace this

Tab 21
Tab 22
Tab 23

Dynamic Tab Header Demo

Interactive tab management with overflow handling

Tab 1 | Tab 2 | Tab 3 | Tab 4 | Tab 5 | Tab 6 | Tab 7 | Tab 8 | Tab 9 | --- (4) | +

Content for Tab 24

This is the content area for the active tab. Replace this with your actual content.

Tab 21
Tab 22
Tab 23
Tab 24