

State variables:

activeTab: Keeps track of the currently active tab.

searchTerm: Stores the value entered in the search input field.

filterType: Stores the selected filter option.

cards: Holds the card data fetched from the API.

isLoading: Indicates whether the data is still being fetched.

useEffect hook:

This hook is used to fetch the card data from the mock API. It runs only once when the component is mounted.

Inside the hook, a simulated API call is made using fetchData function.

Event Handlers:

handleTabChange: Updates the activeTab state variable based on the selected tab.

handleSearch: Updates the search state variable based on the value entered in the search input field.

handleFilterChange: Updates the filtertype state variable based on the selected filter option.

Filtering the cards:

The filteredCards variable holds an array of cards filtered based on the following conditions:

The card's name includes the searchTerm.

The card's card_type matches the selected filterType or is set to 'All'.

Rendering the component:

The JS code renders the following components:

Tab buttons: Each button represents a tab, and the activeTab class is applied to the active tab.

Filter dropdown: Displays a label and a dropdown select element to filter cards by type.

Search input: Renders an input field for searching cards by name.

Card container: Displays the filtered cards as separate card components.

Inside each card component, the card data is rendered using JSX, including properties like name, budget_name, owner_id, spent, available_to_spend, card_type, expiry, limit, and status.

How to run this:

Install Node.js: React.js requires Node.js to run. You can download and install Node.js from the official website

Open a command prompt or terminal.

Navigate to your project folder(Linkapp)

Run the following command:

```
npx create-react-app Linkapp
```

```
cd Linkapp
```

```
npm start
```

(you can also do this inside vscode)