import React, { useState } from "react";

const App = () => {

const dateArray = ["2024-12-01", "2024-12-02", "2024-12-03"];

const strategyArray = [

{ date: "2024-12-01", strategy: "Bull Call Spread" },

{ date: "2024-12-01", strategy: "Bull Call Spread" },

{ date: "2024-12-01", strategy: "Bear Put Spread" },

{ date: "2024-12-02", strategy: "Iron Condor" },

{ date: "2024-12-02", strategy: "Iron Condor" },

{ date: "2024-12-03", strategy: "Straddle" }

];

const [selectedView, setSelectedView] = useState("Bullish");

const [selectedDate, setSelectedDate] = useState(dateArray[0]);

const [searchQuery, setSearchQuery] = useState("");

// Compute strategies based on selected date

const strategiesForDate = strategyArray

.filter((item) => item.date === selectedDate)

.reduce((acc, { strategy }) => {

acc[strategy] = (acc[strategy] || 0) + 1;

return acc;

}, {});

const strategyCards = Object.entries(strategiesForDate)

.filter(([strategy]) => strategy.toLowerCase().includes(searchQuery.toLowerCase()));

return (

<div style={{ padding: "20px", fontFamily: "Arial, sans-serif" }}>

{/\* Toggle for Views \*/}

<div style={{ marginBottom: "20px", display: "flex", flexWrap: "wrap", gap: "10px" }}>

{["Bullish", "Bearish", "RangeBound", "Volatile"].map((view) => (

<button

key={view}

style={{

padding: "10px 20px",

backgroundColor: selectedView === view ? "#007BFF" : "#f0f0f0",

color: selectedView === view ? "#fff" : "#000",

border: "1px solid #ccc",

borderRadius: "5px",

cursor: "pointer",

flex: "1 1 calc(25% - 10px)",

minWidth: "100px",

}}

onClick={() => setSelectedView(view)}

>

{view}

</button>

))}

</div>

{/\* Date Dropdown \*/}

<div style={{ marginBottom: "20px" }}>

<label htmlFor="dateDropdown" style={{ marginRight: "10px" }}>Select Date:</label>

<select

id="dateDropdown"

value={selectedDate}

onChange={(e) => setSelectedDate(e.target.value)}

style={{ padding: "10px", borderRadius: "5px", border: "1px solid #ccc" }}

>

{dateArray.map((date) => (

<option key={date} value={date}>

{date}

</option>

))}

</select>

</div>

{/\* Search Bar \*/}

<div style={{ marginBottom: "20px" }}>

<input

type="text"

placeholder="Search strategies..."

value={searchQuery}

onChange={(e) => setSearchQuery(e.target.value)}

style={{

padding: "10px",

width: "100%",

borderRadius: "5px",

border: "1px solid #ccc",

boxSizing: "border-box",

}}

/>

</div>

{/\* Strategy Cards \*/}

<div>

{strategyCards.length > 0 ? (

<div style={{ display: "flex", flexWrap: "wrap", gap: "20px" }}>

{strategyCards.map(([strategy, count]) => (

<div

key={strategy}

style={{

border: "1px solid #ccc",

borderRadius: "5px",

padding: "20px",

width: "calc(100% - 40px)",

maxWidth: "200px",

boxShadow: "0 2px 5px rgba(0, 0, 0, 0.1)",

}}

>

<h4 style={{ margin: 0 }}>{strategy}</h4>

<p style={{ margin: "10px 0 0" }}>

{count} {count === 1 ? "Strategy" : "Strategies"}

</p>

</div>

))}

</div>

) : (

<p style={{ color: "#888" }}>No strategies available for {selectedDate}.</p>

)}

</div>

</div>

);

};

export default App;

**Link for the assignment with source code & output:**

https://stackblitz.com/edit/react-simple-code-editor-qougpeux?file=src%2FApp.js