```tsx
import React, { ReactElement, useEffect, useState } from "react";
import { Link, useHistory } from "react-router-dom";
import { Client, useListAllClients } from "../api/ClientApi";
import { Button } from "../components/core/Button";
import { Error } from "../components/core/Error";
import { Search } from "../components/core/Search";
import { SecondaryLink } from "../components/core/SecondaryLink";
import { titleCase } from "../components/core/util";
import FilterIcon from "../images/filter-solid.svg";
import "./ClientList.scss";

const { compare } = new Intl.Collator( locales: "en");

export const ClientList = ({ banner }: { banner?: ReactElement }) => {
  const [searchWords, setSearchWords] = useState<string[]>( initialState: []);
  const { isLoadingClientList, errorLoadingClientList, clientList } =
    useListAllClients();
  const [filteredClients, setFilteredClients] = useState<Client[]>( initialState: []);
  const [filterLobMenuOpen, setFilterLobMenuOpen] = useState<boolean>( initialState: false);
  const [lobFilter, setLobFilter] = useState<string>( initialState: "All");
  const history = useHistory();

  useEffect( effect: () => {
    if (clientList) {
      setFilteredClients(clientList);
    }
  },  deps: [clientList]);

  if (isLoadingClientList) {
```

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```tsx
28
29      if (isLoadingClientList) {
30          return <p>Loading...</p>;
31      }
32
33      if (errorLoadingClientList) {
34          return <Error>Error fetching client list...</Error>;
35      }
36
37      const clientMatchesSearch = (client: Client) => {
38          const name = client.name.toLowerCase();
39          const code = client.interopCode ? client.interopCode.toLowerCase() : "";
40          return (
41              searchWords.length ===
42              searchWords.filter(
43                  (word : string ) => name.indexOf(word) > -1 || code.indexOf(word) > -1
44              ).length
45          );
46      };
47
48      const filterClientsByLob = (lob: string) => {
49          if (clientList) {
50              const newClientList = clientList.filter(
51                  (c : Client ) => lob === "All" || c.lineOfBusiness === lob
52              );
53              setFilteredClients(newClientList);
54          }
55          setLobFilter(lob);
56          setFilterLobMenuOpen( value: false):
```

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```tsx
55        setLobFilter(lob);
56        setFilterLobMenuOpen( value: false);
57      };
58
59      const renderClientList = () => {
60        if (!filteredClients) return;
61        const filteredList = filteredClients
62          .filter(clientMatchesSearch)
63          .sort( compareFn: (a : Client , b : Client ) => compare(a.name, b.name));
64        if (filteredList.length === 0 && filteredClients.length > 0) {
65          return (
66            <div
67              data-testid="no-search-results"
68              className="client-list__no-search-results"
69            >
70              No clients match your current search.
71            </div>
72          );
73        }
74
75        return filteredList.map((client : Client ) => (
76          <li key={client.code} className="client-list__item">
77            <Link
78              to={`/client/${client.code}`}
79              data-testid={`client-list-row-${client.code}`}
80              className="client-list__text--underlined"
81            >
82              {client.name}
83            </Link>
```

ClientList() ⟩ renderClientList() ⟩ div

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```
 82                    {client.name}
 83         ⊟        </Link>
 84                 <Link
 85                    to={`/client/${client.code}`}
 86                    data-testid={`client-list-row-interopcode-${client.code}`}
 87                    className="client-list__text"
 88                    aria-label={`Link to ${client.interopCode}`}
 89         ⊟        >
 90                    {client.interopCode}
 91         ⊟        </Link>
 92                 <Link
 93                    to={`/client/${client.code}`}
 94                    data-testid={`client-list-row-lob-${client.code}`}
 95                    className="client-list__text"
 96                    aria-label={`Link to ${client.lineOfBusiness}`}
 97         ⊟        >
 98                    {titleCase(client.lineOfBusiness)}
 99         ⊟        </Link>
100                 <Link
101                    to={`/client/${client.code}`}
102                    data-testid={`client-list-row-state-${client.code}`}
103                    className="client-list__text"
104                    aria-label={`Link to ${client.name}`}
105         ⊟        >
106                    {client.address &&
107                      `${client.address?.city}, ${client.address?.state}`}
108         ⊟        </Link>
109                 <SecondaryLink
110                    className="client-list  edit-link"
```

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```tsx
109          <SecondaryLink
110            className="client-list__edit-link"
111            dataTestId={`client-list-edit-${client.code}`}
112            onClick={() => history.push( path: `/client/${client.code}/edit`)}
113          >
114            Edit
115          </SecondaryLink>
116        </li>
117      ));
118    };
119
120    return (
121      <article className="content">
122        <header className="content__title home-page-title">
123          <Search placeholder="Search" setSearchWords={setSearchWords} />
124          <Button
125            onClick={() => history.push( path: "/client/new")}
126            dataTestId="add-new-client"
127          >
128            ADD NEW CLIENT
129          </Button>
130        </header>
131        {banner || <></>}
132        <ul className="client-list" data-testid="client-list">
133          <li className="client-list__title">
134            <span className="client-list__text--bold">Client Name</span>
135            <span className="client-list__text--bold">Client Code</span>
136            <span className="client-list__text--bold">
137              Line Of Business
```

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```tsx
136            <span className="client-list__text--bold">
137              Line Of Business
138              <button
139                data-testid="client-filter-lob-button"
140                className="client-list__filter-button"
141                onClick={() => {
142                  setFilterLobMenuOpen(!filterLobMenuOpen);
143                }}
144              >
145                <img
146                  src={FilterIcon}
147                  height="16"
148                  width="16"
149                  alt="Filter Clients by LOB"
150                />
151              </button>
152              {filterLobMenuOpen && (
153                <ul className="client-list__filter-options">
154                  <li
155                    data-testid="client-filter-lob-all"
156                    className={`client-list__filter-options_item ${
157                      lobFilter === "All" &&
158                      "client-list__filter-options_item--selected"
159                    }`}
160                    onClick={() => filterClientsByLob( lob: "All")}
161                  >
162                    All
163                  </li>
164                  <li
```

ClientList() ⟩ renderClientList() ⟩ div

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```
163              </li>
164              <li
165                data-testid="client-filter-lob-commercial"
166                className={`client-list__filter-options_item ${
167                  lobFilter === "COMMERCIAL" &&
168                  "client-list__filter-options_item--selected"
169                }`}
170                onClick={() => filterClientsByLob( lob: "COMMERCIAL")}
171              >
172                Commercial
173              </li>
174              <li
175                data-testid="client-filter-lob-govt-programs"
176                className={`client-list__filter-options_item ${
177                  lobFilter === "GOVERNMENT_PROGRAMS" &&
178                  "client-list__filter-options_item--selected"
179                }`}
180                onClick={() => filterClientsByLob( lob: "GOVERNMENT_PROGRAMS")}
181              >
182                Government Programs
183              </li>
184            </ul>
185          )}
186        </span>
187        <span className="client-list__text--bold">Location</span>
188      </li>
189      {renderClientList()}
190    </ul>
191  </article>
```

ClientList() > renderClientList() > div

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