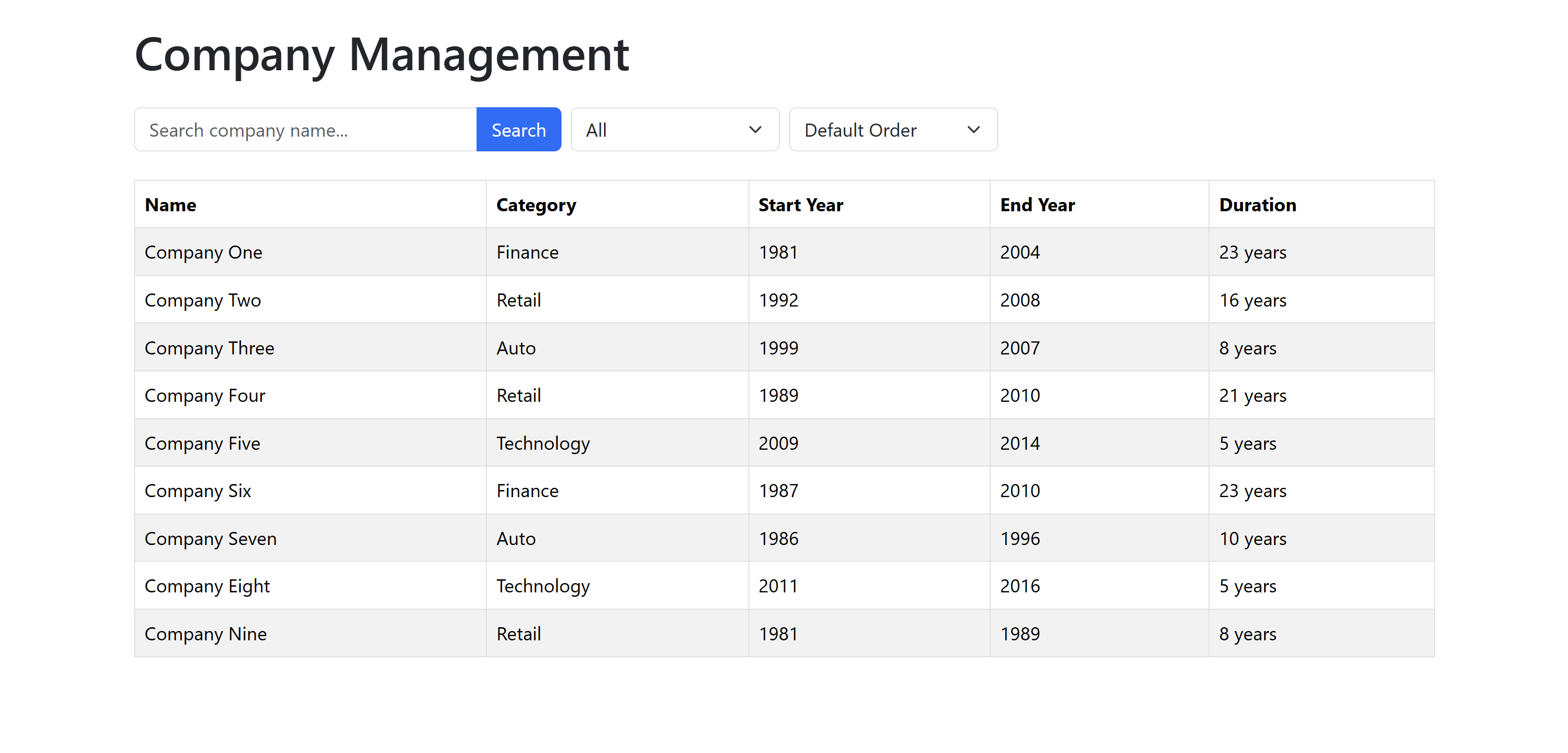
# EX1\_Slot3



## CompanyTable.js

import React, { useState, useEffect } from 'react';

import { Container, Row, Col, Form, Button, Table } from 'react-bootstrap';

const CompanyTable = () => {

  const initialCompanies = [

    { name: "Company One", category: "Finance", start: 1981, end: 2004 },

    { name: "Company Two", category: "Retail", start: 1992, end: 2008 },

    { name: "Company Three", category: "Auto", start: 1999, end: 2007 },

    { name: "Company Four", category: "Retail", start: 1989, end: 2010 },

    { name: "Company Five", category: "Technology", start: 2009, end: 2014 },

    { name: "Company Six", category: "Finance", start: 1987, end: 2010 },

    { name: "Company Seven", category: "Auto", start: 1986, end: 1996 },

    { name: "Company Eight", category: "Technology", start: 2011, end: 2016 },

    { name: "Company Nine", category: "Retail", start: 1981, end: 1989 }

  ];

  const [companies, setCompanies] = useState(initialCompanies);

  const [searchTerm, setSearchTerm] = useState('');

  const [sortOption, setSortOption] = useState('');

  const [filterCategory, setFilterCategory] = useState('All');

  const categories = ['All', ...new Set(initialCompanies.map(company => company.category))];

  const handleSearch = () => {

    let filtered = initialCompanies;

    if (searchTerm) {

      filtered = filtered.filter(company =>

        company.name.toLowerCase().includes(searchTerm.toLowerCase())

      );

    }

    if (filterCategory !== 'All') {

      filtered = filtered.filter(company => company.category === filterCategory);

    }

    let sorted = [...filtered];

    switch (sortOption) {

      case 'start-asc':

        sorted.sort((a, b) => a.start - b.start);

        break;

      case 'start-desc':

        sorted.sort((a, b) => b.start - a.start);

        break;

      case 'duration':

        sorted.sort((a, b) => (a.end - a.start) - (b.end - b.start));

        break;

      default:

        break;

    }

    setCompanies(sorted);

  };

  useEffect(() => {

    handleSearch();

  }, [sortOption, filterCategory]);

  return (

    <Container className="my-4">

      <h1 className="mb-4">Company Management</h1>

      <Row className="mb-4 g-2">

        <Col xs={12} md={6} lg={4}>

          <Form.Group>

            <div className="input-group">

              <Form.Control

                type="text"

                placeholder="Search company name..."

                value={searchTerm}

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

              />

              <Button variant="primary" onClick={handleSearch}>

                Search

              </Button>

            </div>

          </Form.Group>

        </Col>

        <Col xs={6} md={3} lg={2}>

          <Form.Select

            value={filterCategory}

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

          >

            {categories.map(category => (

              <option key={category} value={category}>{category}</option>

            ))}

          </Form.Select>

        </Col>

        <Col xs={6} md={3} lg={2}>

          <Form.Select

            value={sortOption}

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

          >

            <option value="">Default Order</option>

            <option value="start-asc">Start Year (Ascending)</option>

            <option value="start-desc">Start Year (Descending)</option>

            <option value="duration">Duration (End - Start)</option>

          </Form.Select>

        </Col>

      </Row>

      {companies.length === 0 ? (

        <p className="text-center text-muted">No results found</p>

      ) : (

        <Table striped bordered hover responsive>

          <thead>

            <tr>

              <th>Name</th>

              <th>Category</th>

              <th>Start Year</th>

              <th>End Year</th>

              <th>Duration</th>

            </tr>

          </thead>

          <tbody>

            {companies.map((company, index) => (

              <tr key={index}>

                <td>{company.name}</td>

                <td>{company.category}</td>

                <td>{company.start}</td>

                <td>{company.end}</td>

                <td>{company.end - company.start} years</td>

              </tr>

            ))}

          </tbody>

        </Table>

      )}

    </Container>

  );

};

export default CompanyTable;

## App.js

import React from 'react';

import CompanyTable from './CompanyTable';

function App() {

  return (

    <div className="App">

      <CompanyTable />

    </div>

  );

}

export default App;