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BSCS VII Sec: C

023-20-0173

DataTable.jsx

```jsx
import React from 'react';

const DataTable = ({ data }) => {
  return (
    <table>
      <thead>
        <tr>
          <th>ID</th>
          <th>Name</th>
          <th>Age</th>
          <th>City</th>
          <th>Occupation</th>
        </tr>
      </thead>
      <tbody>
        {data.map((item) => (
          <tr key={item.id}>
            <td>{item.id}</td>
            <td>{item.name}</td>
            <td>{item.age}</td>
            <td>{item.city}</td>
            <td>{item.occupation}</td>
          </tr>
        ))}
      </tbody>
    </table>
  );
};

export default DataTable
```

FilterForm.jsx

```jsx
import React from 'react';

const FilterForm = ({ filters, onFilterChange, onResetFilters }) => {
  return (
    <div>
      <label>Name: </label>
```

```jsx
      <input type="text" name="name" value={filters.name}
onChange={onFilterChange} />
      <label>Age: </label>
      <input type="text" name="age" value={filters.age}
onChange={onFilterChange} />
      <label>City: </label>
      <select name="city" value={filters.city} onChange={onFilterChange}>
        <option value="">All</option>

      </select>
      <label>Occupation: </label>
      <select name="occupation" value={filters.occupation}
onChange={onFilterChange}>
        <option value="">All</option>
      </select>
      <button onClick={onResetFilters}>Reset Filters</button>
    </div>
  );
};

export default FilterForm;
```

FilterTable.jsx

```jsx
import React, { useState } from 'react';
import FilterForm from './FilterForm';
import DataTable from './DataTable';

const sampleData = [
{ id: 1, name: 'John Doe', age: 25, city: 'New York', occupation: 'Engineer'
},

  { id: 2, name: 'Jane Smith', age: 30, city: 'San Francisco', occupation:
'Designer' },

  { id: 3, name: 'Bob Johnson', age: 28, city: 'Chicago', occupation:
'Accountant' },

  { id: 4, name: 'Alice Brown', age: 35, city: 'Los Angeles', occupation:
'Teacher' },

  { id: 5, name: 'Charlie Wilson', age: 40, city: 'Houston', occupation:
'Doctor' },

  { id: 6, name: 'Eva Davis', age: 22, city: 'Miami', occupation: 'Artist' },

  { id: 7, name: 'Frank Miller', age: 32, city: 'Seattle', occupation:
'Software Engineer' },
```

```javascript
  { id: 8, name: 'Grace Taylor', age: 45, city: 'Boston', occupation: 'Lawyer'
},

  { id: 9, name: 'Henry Clark', age: 28, city: 'Denver', occupation:
'Marketing Manager' },

  { id: 10, name: 'Ivy Adams', age: 33, city: 'Atlanta', occupation:
'Entrepreneur' },
];

const FilterTable = () => {
  const [filters, setFilters] = useState({ name: '', age: '', city: '',
occupation: '' });

  const handleFilterChange = (e) => {
    const { name, value } = e.target;
    setFilters({ ...filters, [name]: value });
  };

  const handleResetFilters = () => {
    setFilters({ name: '', age: '', city: '', occupation: '' });
  };

  const filteredData = sampleData.filter((item) => {
    return (
      item.name.toLowerCase().includes(filters.name.toLowerCase()) &&
      (filters.age === '' || item.age === parseInt(filters.age)) &&
      (filters.city === '' || item.city === filters.city) &&
      (filters.occupation === '' || item.occupation === filters.occupation)
    );
  });

  return (
    <div>
      <FilterForm
        filters={filters}
        onFilterChange={handleFilterChange}
        onResetFilters={handleResetFilters}
      />
      <DataTable data={filteredData} />
    </div>
  );
};

export default FilterTable;
```

Main.jsx

```jsx
import React from 'react'
import ReactDOM from 'react-dom/client'
import App from './App.jsx'
import './index.css'

ReactDOM.createRoot(document.getElementById('root')).render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
)
```

App.jsx

```jsx
// App.js
import React from 'react';
import FilterTable from './FilterTable';
import './App.css'; // Add your CSS file if needed

function App() {
  return (
    <div className="App">
      <h1>Data Filtering App</h1>
      <FilterTable />
    </div>
  );
}

export default App;
```

Data Filtering App

Name: [   ] Age: [   ] City: [All ▾] Occupation: [All ▾] **Reset Filters**

ID	Name	Age	City	Occupation
1	John Doe	25	New York	Engineer
2	Jane Smith	30	San Francisco	Designer
3	Bob Johnson	28	Chicago	Accountant
4	Alice Brown	35	Los Angeles	Teacher
5	Charlie Wilson	40	Houston	Doctor
6	Eva Davis	22	Miami	Artist
7	Frank Miller	32	Seattle	Software Engineer
8	Grace Taylor	45	Boston	Lawyer
9	Henry Clark	28	Denver	Marketing Manager
10	Ivy Adams	33	Atlanta	Entrepreneur

Data Filtering App

Name: [john] Age: [   ] City: [All ▾] Occupation: [All ▾] **Reset Filters**

ID	Name	Age	City	Occupation
1	John Doe	25	New York	Engineer
3	Bob Johnson	28	Chicago	Accountant

Data Filtering App

Name: [john] Age: [28] City: [All ▾] Occupation: [All ▾] **Reset Filters**

ID	Name	Age	City	Occupation
3	Bob Johnson	28	Chicago	Accountant

Data Filtering App

Name: [   ] Age: [30] City: [All ▾] Occupation: [All ▾] **Reset Filters**

ID	Name	Age	City	Occupation
2	Jane Smith	30	San Francisco	Designer