

//ADD functions:

import { useState } from 'react';

function FilterableProductTable({ products }) {

const [filterText, setFilterText] = useState('');

const [inStockOnly, setInStockOnly] = useState(false);

return (

<div>

<SearchBar

filterText={filterText}

inStockOnly={inStockOnly}

onFilterTextChange={setFilterText}

onInStockOnlyChange={setInStockOnly} />

<ProductTable

products={products}

filterText={filterText}

inStockOnly={inStockOnly} />

</div>

);

}

function ProductCategoryRow({ category }) {

return (

<tr>

<th colspan="2">

{category}

</th>

</tr>

);

}

function ProductRow({ product }) {

const name = product.stocked ? product.name :

<span style={{ color: 'red' }}>

{product.name}

</span>;

return (

<tr>

<td>{name}</td>

<td>{product.price}</td>

</tr>

);

}

function ProductTable({ products, filterText, inStockOnly }) {

const rows = [];

let lastCategory = null;

products.forEach((product) => {

if (

product.name.toLowerCase().indexOf(

filterText.toLowerCase()

) === -1

) {

return;

}

if (inStockOnly && !product.stocked) {

return;

```

    }
    if (product.category !== lastCategory) {
      rows.push(
        <ProductCategoryRow
          category={product.category}
          key={product.category} />
      );
    }
    rows.push(
      <ProductRow
        product={product}
        key={product.name} />
    );
    lastCategory = product.category;
  });
  return (
    <table>
      <thead>
        <tr>
          <th>Name</th>
          <th>Price</th>
        </tr>
      </thead>
      <tbody>{rows}</tbody>
    </table>
  );
}

function SearchBar({
  filterText,
  inStockOnly,
  onFilterTextChange,
  onInStockOnlyChange
}) {
  return (
    <form>
      <input
        type="text"
        value={filterText} placeholder="Search..."
        onChange={(e) => onFilterTextChange(e.target.value)} />
      <label>
        <input
          type="checkbox"
          checked={inStockOnly}
          onChange={(e) => onInStockOnlyChange(e.target.checked)} />
        { ' ' }
        Only show products in stock
      </label>
    </form>
  );
}

const PRODUCTS = [
  {category: "Fruits", price: "$1", stocked: true, name: "Apple"},
  {category: "Fruits", price: "$1", stocked: true, name: "Dragonfruit"},
  {category: "Fruits", price: "$2", stocked: false, name: "Passionfruit"},
  {category: "Vegetables", price: "$2", stocked: true, name: "Spinach"},
  {category: "Vegetables", price: "$4", stocked: false, name: "Pumpkin"},
  {category: "Vegetables", price: "$1", stocked: true, name: "Peas"}
];

```

```
export default function App() {  
  return <FilterableProductTable products={PRODUCTS} />;  
}
```