



useInput.js

```
// src/useInput.js
```

```
import { useState } from 'react';
```

```
const useInput = (initialValue = '') => {  
  const [value, setValue] = useState(initialValue);
```

```
  const handleChange = (e) => {  
    setValue(e.target.value);  
  };
```

```
  const reset = () => {  
    setValue('');  
  };  
  return {  
    value,  
    onChange: handleChange,  
    reset,  
  };  
};
```

```
};  
  
export default useInput;
```

ShoppingListContext.js

```
// src/ShoppingListContext.js
```

```
import React, { createContext, useContext, useState } from 'react';
```

```
const ShoppingListContext = createContext();
```

```
export const useShoppingList = () => {  
  return useContext(ShoppingListContext);  
};
```

```
export const ShoppingListProvider = ({ children }) => {  
  const [items, setItems] = useState([]);
```

```
  const addItem = (item) => {  
    setItems((prevItems) => [...prevItems, item]);  
  };
```

```
  const removeItem = (itemToRemove) => {  
    setItems((prevItems) => prevItems.filter((item) => item !== itemToRemove));  
  };
```

```
  const filterItems = (searchTerm) => {  
    return items.filter((item) => item.toLowerCase().includes(searchTerm.toLowerCase()));  
  };
```

```
  return (  
    <ShoppingListContext.Provider value={{ items, addItem, removeItem, filterItems }}>  
      {children}  
    </ShoppingListContext.Provider>  
  );  
};
```

ItemInput.js

```
// src/ItemInput.js
```

```
import React from 'react';
```

```
import useInput from './useInput';
```

```
import { useShoppingList } from './ShoppingListContext';
```

```
const ItemInput = () => {
```

```
  const { addItem } = useShoppingList();
```

```
  const { value, onChange, reset } = useInput();
```

```
  const handleSubmit = (e) => {
```

```
    e.preventDefault();
```

```
    addItem(value);
```

```
    reset();
```

```
  };
```

```
  return (
```

```
    <form onSubmit={handleSubmit}>
```

```
      <input type="text" value={value} onChange={onChange} placeholder="Add an item" required />
```

```
      <button type="submit">Add</button>
```

```
    </form>
```

```
  );
```

```
};
```

```
export default ItemInput;
```

ItemList.js

```
// src/ItemList.js

import React, { useState } from 'react';
import { useShoppingList } from './ShoppingListContext';

const ItemList = () => {
  const { items, removeItem, filterItems } = useShoppingList();
  const [searchTerm, setSearchTerm] = useState("");

  const filteredItems = filterItems(searchTerm);

  const handleRemove = (item) => {
    removeItem(item);
  };

  return (
    <div>
      <input
        type="text"
        placeholder="Search items"
        value={searchTerm}
        onChange={(e) => setSearchTerm(e.target.value)}
      />
      <ul>
        {filteredItems.map((item, index) => (
          <li key={index}>
            {item}
            <button onClick={() => handleRemove(item)}>Remove</button>
          </li>
        ))}
      </ul>
    </div>
  );
}
```

```
    </div>

  );
};

export default ItemList;
```

App.js

```
// src/App.js

import React from 'react';
import { ShoppingListProvider } from './ShoppingListContext';
import ItemInput from './ItemInput';
import ItemList from './ItemList';
import './App.css'; // Import the CSS file

const App = () => {
  return (
    <ShoppingListProvider>
      <div className="container">
        <h1>Shopping List</h1>
        <ItemInput />
        <ItemList />
      </div>
    </ShoppingListProvider>
  );
};

export default App;
```