

## Week 7 - Challenge Yourself

```
JS App.js M MusicStore.jsx M X
reactapp > src > components > MusicStore.jsx > ...
1 // WEEK 7 - CHALLENGE YOURSELF - MusicStore.jsx
2
3 import React, {useState} from 'react';
4 import 'bootstrap/dist/css/bootstrap.min.css';
5
6 const MusicStore = () => {
7   const [O, setO] = useState([
8     {id:1, n:"Acoustic Guitar", q:10, p:150},
9     {id:2, n:"Electric Keyboard", q:10, p:150},
10    {id:3, n:"Drum Set", q:10, p:150},
11  ]);
12
13   const [NO, setNO] = useState({n: '', q:'', p: ''});
14   const handleNOC = (e) => {
15     const {name, value} = e.target;
16     setNO({...NO, [name]:value});
17   };
18
19   const handleAO = () => {
20     if(!NO.n || !NO.q || !NO.p) {
21       alert("Please fill in all fields");
22       return;
23     }
24     const newId = Math.max(...O.map(or => or.id))+1;
25     const OTA = {
26       ...NO, id: newId, n:NO.n, q:parseInt(NO.q), p:parseFloat(NO.p)
27     };
28
29     setO([...O, OTA]);
30     setNO({n:'',q:'',p:''});
31   };
32 }
```

```

33   return(
34     <div className="container my-4">
35       <h1>Music Store Inventory</h1>
36       <table className="table table-hover table-bordered card h-100 shadow-sm">
37         <thead className="table-warning">
38           <tr>
39             <th>ID</th>
40             <th>Instrument / Album</th>
41             <th>Quantity</th>
42             <th>Price ($) </th>
43           </tr>
44         </thead>
45         <tbody>
46           {0.map((or) => (
47             <tr>
48               <td>{or.id}</td>
49               <td>{or.n}</td>
50               <td>{or.q}</td>
51               <td>${or.p.toFixed(2)}</td>
52             </tr>
53           ))}
54         </tbody>
55       </table>
56       <h2>Add New Instrument</h2>
57       <div>
58         <div><input type="text" className="form-control" placeholder="Instrument / Album Name" name="n" value={NO.n} onChange={handleNOC}/></div>
59         <div><input type="number" className="form-control" placeholder="Quantity" name="q" value={NO.q} onChange={handleNOC}/></div>
60         <div><input type="number" className="form-control" placeholder="Price ($)" name="p" value={NO.p} onChange={handleNOC}/></div>
61         <div><button className="btn btn-warning w-100 fw-bold" onClick={handleAO}>Add Item</button></div>
62       </div>
63     </div>
64   );
65 };
66
67 export default MusicStore;

```

```

JS App.js  M X  MusicStore.jsx M
reactapp > src > JS App.js > ...
1  // WEEK 7 - CHALLENGE YOURSELF - App.js
2
3  import React from 'react';
4  import MusicStore from './components/MusicStore';
5
6  function App() {
7    return(
8      <div className='App'>
9        <MusicStore/>
10      </div>
11    )
12  };
13
14  export default App;
15
16

```

## Practice At Home 1

```

Bookstore.jsx M  JS App.js  M X  JS App.test.js  <> ind.html
reactapp > src > JS App.js > ...
1  // WEEK 7 - PRACTICE AT HOME 1 - App.js
2
3  import React from 'react';
4  import BookOrd from './components/Bookstore';
5
6  function App() {
7    return (
8      <div className='App'>
9        <BookOrd/>
10      </div>
11    )
12  }
13
14  export default App;

```

reactapp &gt; src &gt; components &gt; Bookstore.jsx &gt; BookOrd &gt; handleAO &gt; OTA

```

1  // WEEK 7 - PRACTICE AT HOME 1 - Bookstore.jsx
2
3  import React, {useState} from 'react';
4  import 'bootstrap/dist/css/bootstrap.min.css';
5
6  const BookOrd = () => {
7      const [0, setO] = useState([
8          {id: 1, t: 'The Great Gatsby', a: 'Scott', s: 12, p: 10.5},
9          {id: 2, t: '1984', a: 'Scott', s: 12, p: 10.5},
10         {id: 3, t: 'To Kill a Mockingbird', a: 'Scott', s: 12, p: 10.5},
11     ]);
12
13     const [NO, setNO] = useState({t: '', a: '', s: '', p: ''});
14
15     const handleNOC = (e) => {
16         const {name, value} = e.target;
17         setNO({...NO, [name]: value});
18     }
19
20     const handleAO = () => {
21         if(!NO.t || !NO.a || !NO.s || !NO.p) {
22             alert("Please fill in all fields");
23             return;
24         }
25
26         const newId = Math.max(...0.map(or => or.id)) + 1;
27         const OTA = [
28             ...NO, id: newId, t: NO.t, a: NO.a,
29             s: parseInt(NO.s), p: parseFloat(NO.p)
30         ];
31         setO([...0, OTA]);
32         setNO({t: '', a: '', s: '', p: ''});
33     };
34
35     return (
36         <div className="container my-5">
37             <h1>Bookstore Inventory</h1>
38             <p>Manage your book collection with ease</p>
39             <h2>Available Books</h2>
40             <table className="card h-100 shadow-sm">
41                 <tbody>
42                     {0.map((or) => (
43                         <tr>
44                             <td>{or.id}</td>
45                             <td>{or.t}</td>
46                             <td>{or.a}</td>
47                             <td>{or.s}</td>
48                             <td>${or.p.toFixed(2)}</td>
49                         </tr>
50                     ))}
51                 </tbody>
52             </table>
53             <h2>Add a New Book</h2>
54             <div>
55                 <div><input type="text" className="form-control" placeholder="Book Title" name="t" value={NO.t} onChange={handleNOC}/></div>
56                 <div><input type="text" className="form-control" placeholder="Author" name="a" value={NO.a} onChange={handleNOC}/></div>
57                 <div><input type="text" className="form-control" placeholder="Stock" name="s" value={NO.s} onChange={handleNOC}/></div>
58                 <div><input type="number" className="form-control" placeholder="Price ($)" name="p" value={NO.p} onChange={handleNOC}/></div>
59                 <div><button class="btn btn-success w-100" onClick={handleAO}>Add Book</button></div>
60             </div>
61         </div>
62     );
63 };
64
65 export default BookOrd;

```

## Type the Code

```
MedicalShop.jsx M X JS App.js ind.html JS App.test.js
reactapp > src > components > MedicalShop.jsx > MedOrd
1 // WEEK 7 - TYPE THE CODE - MedicalShop.jsx
2
3 import React, {useState} from 'react';
4 import 'bootstrap/dist/css/bootstrap.min.css';
5
6 const MedOrd = () => {
7   const [O, setO] = useState([
8     {id:1, n: 'Paracetamol', q: 50, p: 2.5},
9     {id:2, n: 'Aspirin', q: 30, p: 3},
10    {id:3, n: 'Band-Aid', q: 100, p: 1}
11  ]);
12
13   const [NO, setNO] = useState({n: '', q: '', p: ''});
14
15   const handleNOC = (e) => {
16     const {name,value} = e.target;
17     setNO({...NO, [name]:value});
18   };
19
20   const handleAO = () => {
21     if(!NO.n || !NO.q || !NO.p) {
22       alert("Please fill in all fields");
23       return;
24     }
25
26     const newId = Math.max(...O.map(or => or.id)) + 1;
27     const OTA = {
28       ...NO, id: newId, n: NO.n, q: parseInt(NO.q), p: parseFloat(NO.p)
29     };
30
31     setO([...O, OTA]);
32     setNO({n: '', q: '', p: ''});
33   };
34 }
```

```
MedicalShop.jsx M X JS App.js ind.html JS App.test.js
reactapp > src > components > MedicalShop.jsx > MedOrd
35
36   return (
37     <div className='container my-4'>
38       <h1>Medical Shop Inventory</h1>
39       <table className='table table-striped table-bordered'>
40         <thead>
41           <tr>
42             <th>ID</th>
43             <th>Name</th>
44             <th>Quantity</th>
45             <th>Price</th>
46           </tr>
47         </thead>
48         <tbody>
49           { O.map(or) => (
50             <tr>
51               <td>{or.id}</td>
52               <td>{or.n}</td>
53               <td>{or.q}</td>
54               <td>{or.p}</td>
55             </tr>
56           )}
57         </tbody>
58       </table>
59       <h2>Add New Medicine</h2>
60       <div>
61         <input type="text" className="form-control" placeholder="Name" name="n" value={NO.n} onChange={handleNOC}/></div>
62         <input type="number" className="form-control" placeholder="Quantity" name="q" value={NO.q} min="1" onChange={handleNOC}/></div>
63         <input type="number" className="form-control" placeholder="Price" name="p" value={NO.p} min="0" step="0.01" onChange={handleNOC}/></div>
64         <button className="btn btn-success w-100" onClick={handleAO}>Add Medicine</button></div>
65       </div>
66     );
67   };
68
69   export default MedOrd;
```

```
reactapp > src > JS App.js > ...
1 // WEEK 7 - TYPE THE CODE - App.js
2
3 import React from 'react';
4 import MedOrd from './components/MedicalShop';
5
6 function App() {
7   return (
8     <div className='App'>
9       <MedOrd/>
10     </div>
11   )
12 }
13
14 export default App;
```

## Fix the Code

```
FoodOrder.jsx M X JS App.test.js JS App.js
reactapp > src > components > FoodOrder.jsx > FoodOrder
1 import React, { useState } from 'react';
2 import 'bootstrap/dist/css/bootstrap.min.css';
3
4 const FoodOrder = () => {
5   const [orders, setOrders] = useState([
6     { id: 1, item: 'Burger', quantity: 2, price: 150 },
7     { id: 2, item: 'Pizza', quantity: 1, price: 300 },
8     { id: 3, item: 'Pasta', quantity: 3, price: 200 },
9   ]);
10
11   const [newOrder, setNewOrder] = useState({
12     item: '',
13     quantity: '',
14     price: '',
15   });
16
17   const handleNewOrderChange = (e) => {
18     const { name, value } = e.target;
19     setNewOrder({ ...newOrder, [name]: value });
20   };
21
22   const handleAddOrder = () => {
23     if (!newOrder.item || !newOrder.quantity || !newOrder.price) {
24       alert('Please fill in all fields');
25       return;
26     }
27
28     const newId = Math.max(...orders.map(order => order.id)) + 1;
29     const orderToAdd = {
30       ...newOrder,
31       id: newId,
32       item: newOrder.item,
33       quantity: parseInt(newOrder.quantity),
34       price: parseFloat(newOrder.price),
35     };
36
37     setOrders([...orders, orderToAdd]);
38     setNewOrder({
39       item: '',
40       quantity: '',
41       price: '',
42     });
43   };
44
45   return (
46     <div className="container my-4">
47       <h1 className="text-primary text-center mb-4">Food Order Management</h1>
48       <table className="table table-striped table-bordered">
49         <thead>
50           <tr>
51             <th>ID</th>
52             <th>Food Item</th>
53             <th>Quantity</th>
54             <th>Price ($)</th>
55           </tr>
56         </thead>
57         <tbody>
58           {orders.map((order) => (
59             <tr>
60               <td>{order.id}</td>
61               <td>{order.item}</td>
62               <td>{order.quantity}</td>
63               <td>{order.price}</td>
64             </tr>
65           ))}
66         </tbody>
67       </table>
68       <br />
69     </div>
70   );
71 }
```

```

70
71 <h2 className="text-success text-center mt-5 mb-3">Add New Food Order</h2>
72 <div className="row g-3">
73   <div className="col-md-4">
74     <input
75       type="text"
76       className="form-control"
77       placeholder="Food Item"
78       name="item"
79       value={newOrder.item}
80       onChange={handleNewOrderChange}
81     />
82   </div>
83   <div className="col-md-3">
84     <input
85       type="number"
86       className="form-control"
87       placeholder="Quantity"
88       name="quantity"
89       value={newOrder.quantity}
90       onChange={handleNewOrderChange}
91       min="1"
92     />
93   </div>
94   <div className="col-md-3">
95     <input
96       type="number"
97       className="form-control"
98       placeholder="Price ($)"
99       name="price"
100       value={newOrder.price}
101       onChange={handleNewOrderChange}
102       step="0.1"
103       min="0"
104     />
105   </div>

```

```

104       onChange={handleNewOrderChange}
105       step="0.1"
106       min="0"
107     />
108   </div>
109   <div className="col-md-2">
110     <button
111       className="btn btn-success w-100"
112       onClick={handleAddOrder}
113     >
114       Add Order
115     </button>
116   </div>
117 </div>
118 </div>
119 );
120 };
121
122 export default FoodOrder;
123

```