

W15-P2: replace data in CartContainer using global context

The screenshot shows a web application running on localhost:3000. The browser window displays a shopping cart titled "YOUR BAG" with four items: Samsung Galaxy S8 (\$399.99), Google Pixel (\$499.99), Xiaomi Redmi Note 2 (\$699.99), and Samsung Galaxy S7 (\$599.99). The total is \$999.9. A "CLEAR CART" button is at the bottom. The right sidebar shows the component props and hooks for the CartContainer, including the global context state.

```
Context_xx.js
1 import React, { useState, useContext, useReducer, useE
2 import Reducer_xx from './Reducer_xx';
3
4 import cartItems from './data'
5 import { children } from 'react';
6
7 const AppContext_xx = React.createContext();
8
9 const initialState = {
10   loading: false,
11   cart: cartItems,
12   amount: 4,
13   total: 999.9
14 };
15
16 const AppProvider_xx = ({children}) => {
17   const [state, dispatch] = useReducer(Reducer_xx, initi
18   return <AppContext_xx.Provider value={{...state}}>
19     {children}
20   </AppContext_xx.Provider>
21 };
22
23 const useGlobalContext_xx = () => {
24   return useContext(AppContext_xx);
25 }
26
27 export { AppProvider_xx, useGlobalContext_xx};
28
```

CartContainer.js

```
1 // const [cart, setCart] = useState(data);
2 // const [total, setTotal] = useState(0);
3 // const [amount, setAmount] = useState(0);
4 const { cart, total, amount, clearCart } = useGlobalContext_xx();
5 if (cart.length === 0) {
6   return (
7     <section className='cart'>
8       <h4>your bag</h4>
9       <h4 className='empty-cart'>is currently empty</h4>
10     </section>
11   );
12 }
13
14 <div>
15   <button className='btn clear-btn' onClick={clearCart}>
16     clear cart
17   </button>
18 </div>
19
20 export default CartContainer;
```

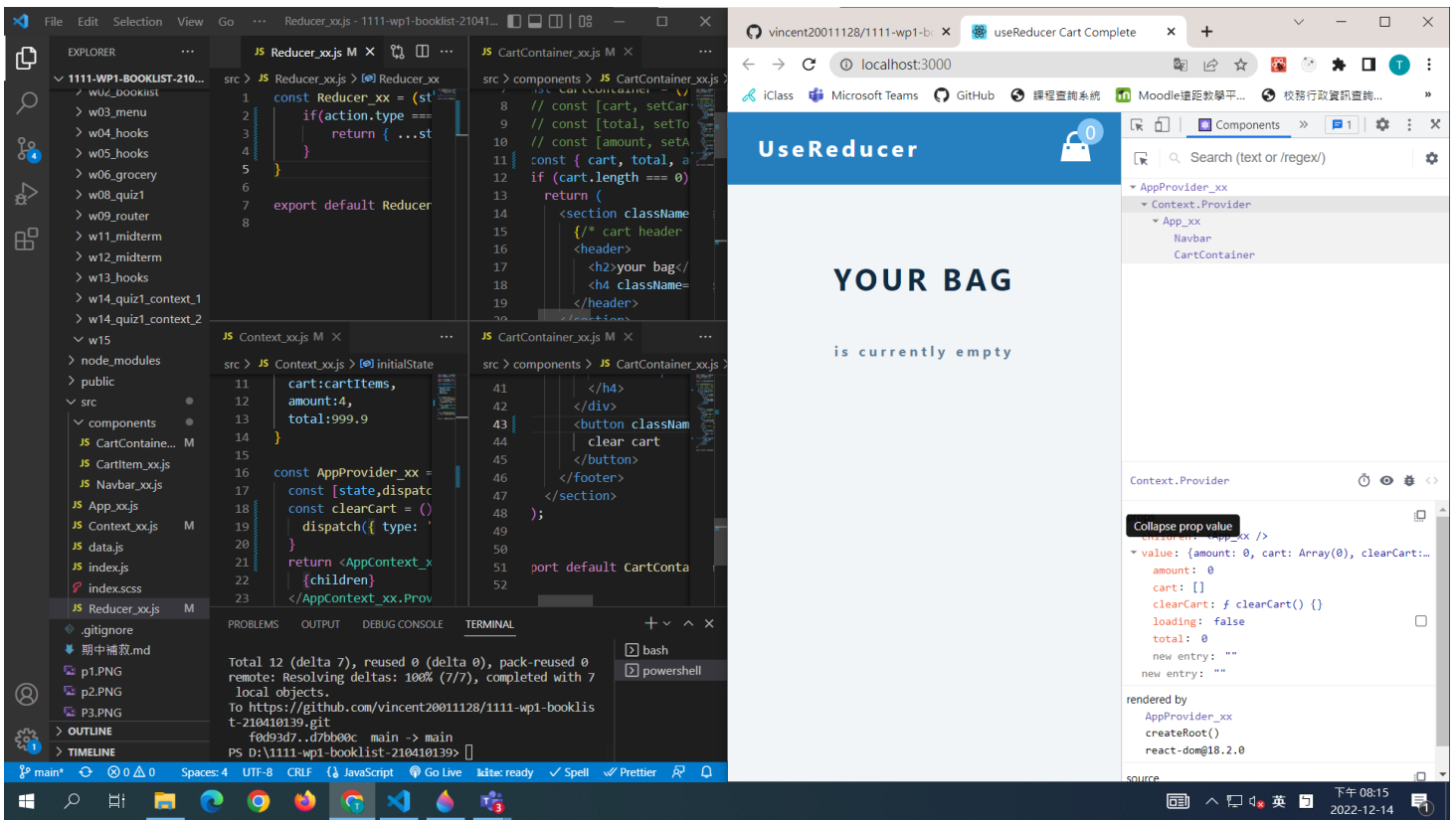
W15-P3: put clear cart function in global context

The screenshot shows the code implementation for the clear cart function in the global context. The Reducer_xx.js file has been updated to include a 'CLEAR_CART' action type and a clearCart function. The AppProvider_xx.js file has been updated to include the clearCart function in the state and to call the clearCart function when the 'CLEAR_CART' action is dispatched. The CartContainer.js file has been updated to use the clearCart function from the global context.

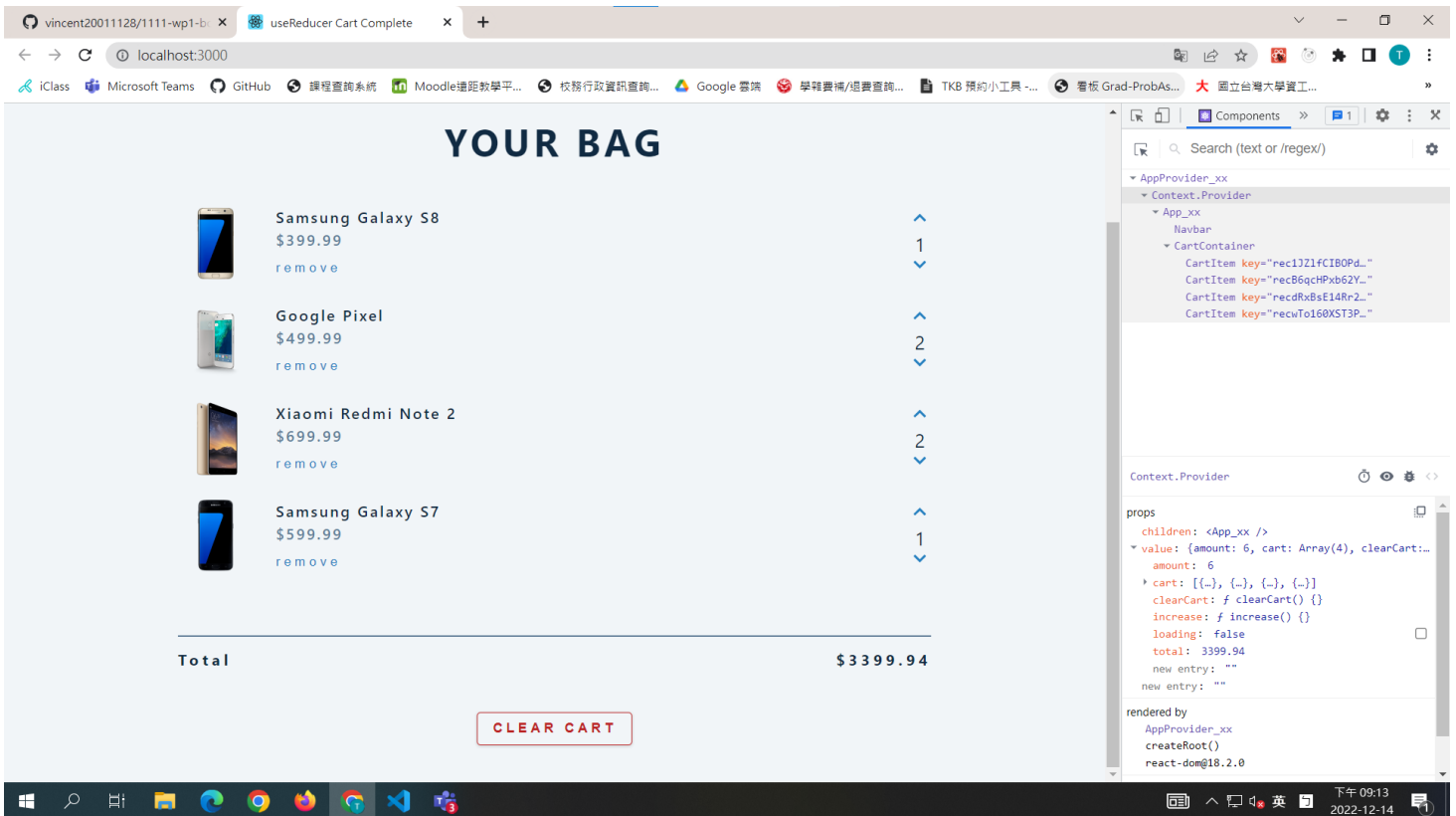
```
Reducer_xx.js
1 const Reducer_xx = (state, action) => {
2   if(action.type === 'CLEAR_CART'){
3     return { ...state, cart: [] }
4   }
5 }
6
7 export default Reducer_xx;
```

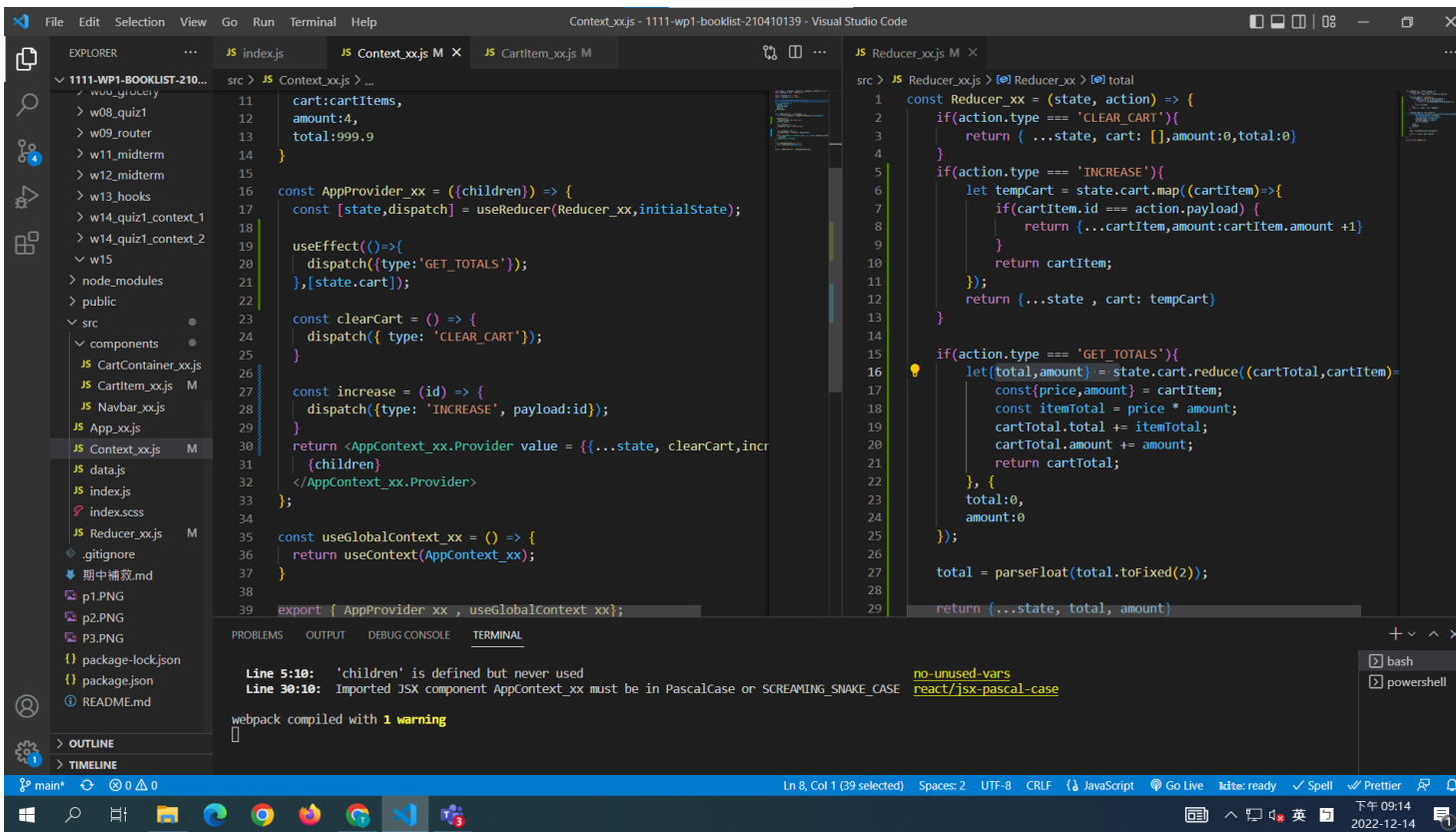
```
AppProvider_xx.js
1 const AppProvider_xx = ({children}) => {
2   const [state, dispatch] = useReducer(Reducer_xx, initialState);
3   const clearCart = () => {
4     dispatch({ type: 'CLEAR_CART' });
5   }
6   return <AppContext_xx.Provider value={{...state, clearCart}}>
7     {children}
8   </AppContext_xx.Provider>
9 };
```

```
CartContainer.js
1 // const [cart, setCart] = useState(data);
2 // const [total, setTotal] = useState(0);
3 // const [amount, setAmount] = useState(0);
4 const { cart, total, amount, clearCart } = useGlobalContext_xx();
5 if (cart.length === 0) {
6   return (
7     <section className='cart'>
8       <h4>your bag</h4>
9       <h4 className='empty-cart'>is currently empty</h4>
10     </section>
11   );
12 }
13
14 <div>
15   <button className='btn clear-btn' onClick={clearCart}>
16     clear cart
17   </button>
18 </div>
19
20 export default CartContainer;
```



W15-P4: provide increase and get total function in global context





git log

```
a50631c vincent20011128 Wed Dec 14 21:16:50 2022 +0800 W15-P4: provide increase and get total function in global context
5d53597 vincent20011128 Wed Dec 14 20:17:48 2022 +0800 W15-P3: put clear cart function in global context
d7bb00c vincent20011128 Wed Dec 14 19:48:28 2022 +0800 W15-P2: replace data in CartContainer using global context
f0d93d7 vincent20011128 Wed Dec 14 19:26:22 2022 +0800 W15-P1: Setup AppProvider_xx for App_xx and get state data
PS D:\1111-wp1-booklist-210410139>
```