

W15-P1: Setup AppProvider_xx for App_xx and get state data

The screenshot shows a web application running on localhost:3000. The application is titled "UseReducer" and displays a "YOUR BAG" section. The bag contains four items: Samsung Galaxy S8 (\$399.99), Google Pixel (\$499.99), Xiaomi Redmi Note 2 (\$699.99), and Samsung Galaxy S7 (\$599.99). Each item has a "remove" button. The total is \$0. A "CLEAR CART" button is at the bottom. The DevTools Components panel shows the component tree with AppProvider_27, Context.Provider, App_27, and NavBar. The hooks panel shows the state of useContext.

```
const App_27 = () => {
  const { loading, cart } = useGlobalContext_xx();
  // if (loading) {
  //   return (
  //     <div className='loading'>
  //       <h1>Loading...</h1>
  //     </div>
  //   );
  // }
  return (
    <main>
      <Navbar_27 />
      <CartContainer_27 />
    </main>
  );
};
```

Line 7:17: 'setTotal' is assigned a value but never used no-unused-vars
Line 8:10: 'amount' is assigned a value but never used no-unused-vars
Line 8:10: 'setAmount' is assigned a value but never used no-unused-vars

src\data.js
Line 11: Assign array to a variable before exporting as module default

src\index.js
Line 13:5: Imported JSX component AppProvider_27 must be in PascalCase or
Line 14:5: Imported JSX component App_27 must be in PascalCase or SCREAMING

webpack compiled with 1 warning

The screenshot shows the source code in Visual Studio Code. The left pane shows index.js with imports and JSX elements. The right pane shows Context_27.js with the initial state and AppProvider_27 component.

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.scss';
import App_27 from './App_27';
import { AppProvider_27 } from './Context_27';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <AppProvider_27>
      <App_27 />
    </AppProvider_27>
  </React.StrictMode>
);
```

```
const AppContext_27 = React.createContext();

const initialState = {
  loading: false,
  cart: cartItems,
  amount: 0,
  total: 0
};

const AppProvider_27 = ({children}) => {
  const [state, dispatch] = useReducer(Reducer_27, initialState);
  return <AppContext_27.Provider value={{...state}}>
    {children}
  </AppContext_27.Provider>
};

const useGlobalContext_xx = () => {
  return useContext(AppContext_27);
};

export {AppProvider_27, useGlobalContext_xx};
```

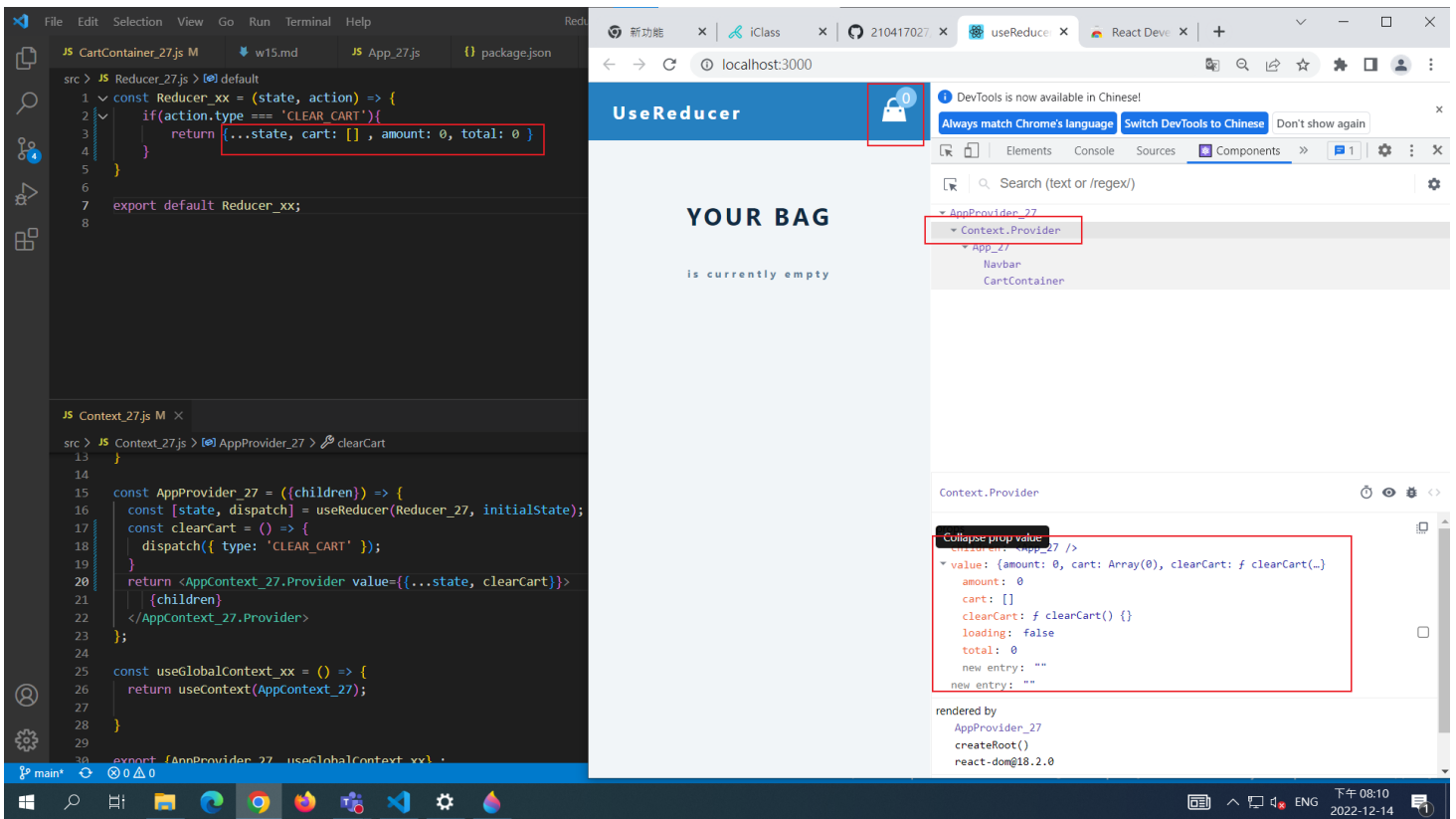
The screenshot displays a web development environment with three main panels:

- Code Editor (Left):** Shows the `CartContainer` component. It uses `useGlobalContext_xx` to access the `cart`, `total`, and `amount` from the context. The component renders a list of items in the shopping bag and a total amount of `$123.45`.
- Browser (Middle):** Shows the rendered application. The "YOUR BAG" section lists items with their prices and a "remove" button. The total amount is displayed as `$123.45`. A "CLEAR CART" button is visible at the bottom.
- Redux DevTools (Right):** Shows the state of the application. The `GlobalContext_xx` hook is highlighted, showing the current state of the `cart` and `total`.

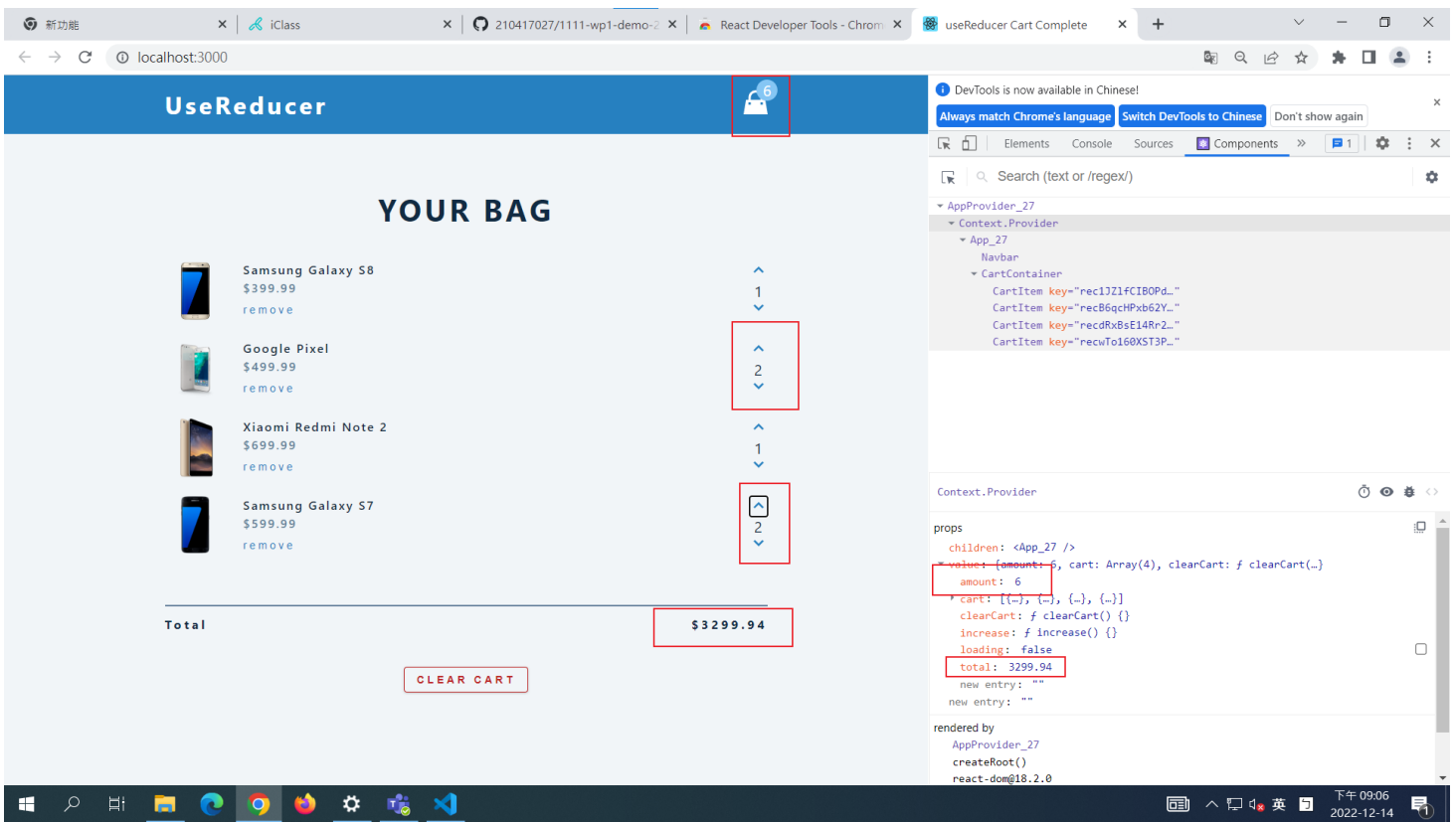
The screenshot displays a VS Code editor with four files open, illustrating the implementation of a shopping cart application using Redux and Context API.

- Reducer_27.js:** The `Reducer_xx` function is highlighted with a red box. It handles the `'CLEAR_CART'` action by returning an empty array for `cart` and `0` for `amount` and `total`.
- Context_27.js:** The `clearCart` function within `AppProvider` is highlighted with a red box. It dispatches the `'CLEAR_CART'` action. The `AppProvider` component is also shown, wrapping the children with `AppContext_27.Provider` and passing `clearCart` as a prop.
- CartContainer_27.js:** The `clearCart` button is highlighted with a red box. It is a button with the text "clear cart" and an `onClick={clearCart}` prop. The `clearCart` prop is also highlighted with a red box, showing it is passed from the `AppProvider`.

The bottom status bar shows the editor is at line 7, column 27, with 2 spaces, UTF-8 encoding, and CRLF line endings. The language is JavaScript, and the Go Live extension is active. The system clock shows 2022-12-14 at 15:07.



W15-P4: provide get total function in global context

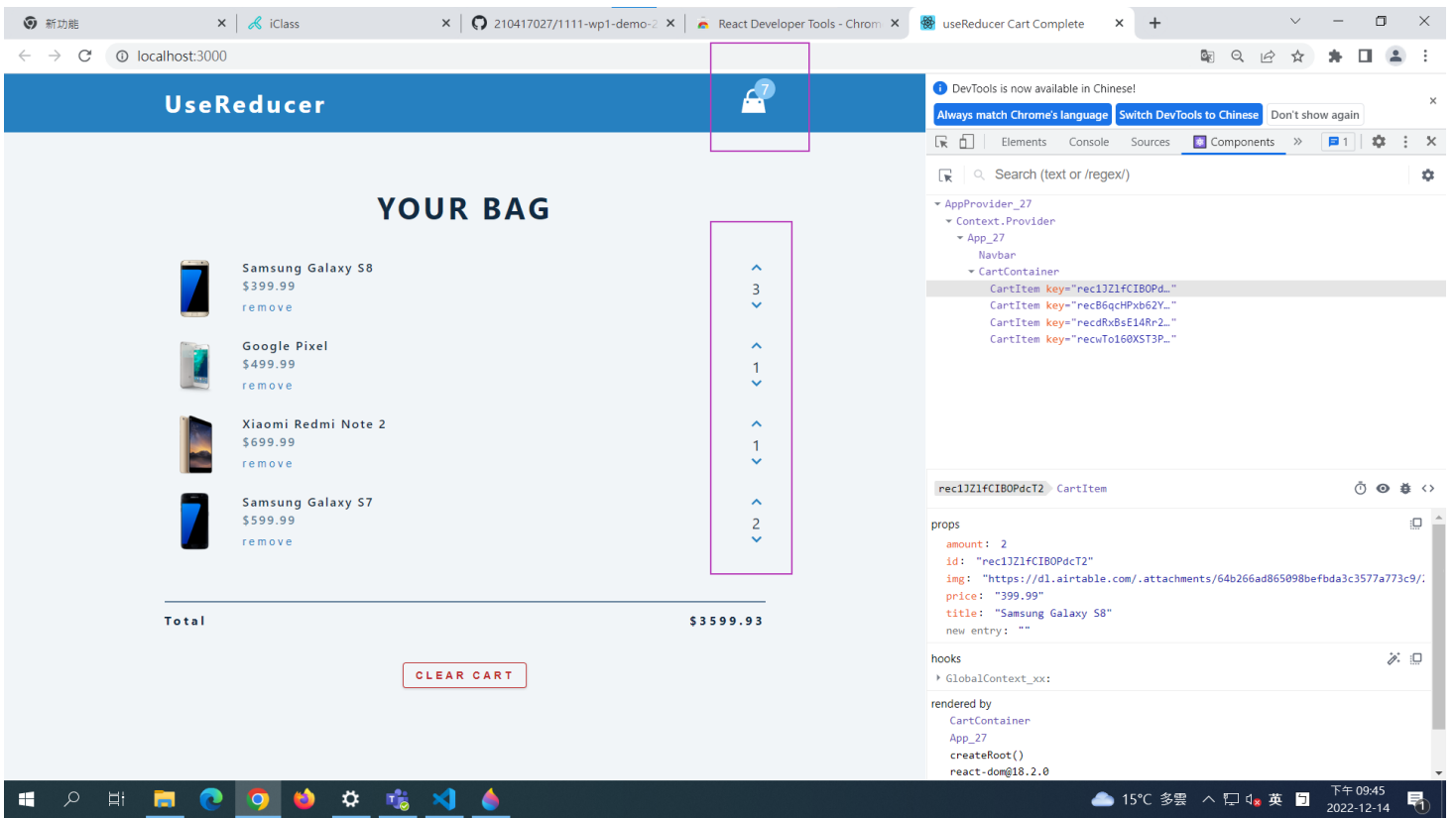


```
src > JS Context_27.js > AppProvider_27 > useEffect() callback
11 amount: 4,
12 total: 123.45
13 }
14
15 const AppProvider_27 = ({children}) => {
16   const [state, dispatch] = useReducer(Reducer_27, initialState);
17   useEffect(() => {
18     dispatch({type: 'GET_TOTALS'});
19     [,state.cart]
20   },[state.cart])
21   const clearCart = () => {
22     dispatch({ type: 'CLEAR_CART' });
23   }
24
25   const increase = (id) => {
26     dispatch({type: 'INCREASE', payload: id});
27   }
28
29   return <AppContext_27.Provider value={{...state, clearCart, increase}}>
30     {children}
31   </AppContext_27.Provider>
32 </AppProvider_27>
33 </AppContext_27>
34
35 const useGlobalContext_xx = () => {
36   return useContext(AppContext_27);
37 }
38
39 export {AppProvider_27, useGlobalContext_xx};
40
41
src > JS Reducer_27.js > Reducer_xx
1 const Reducer_xx = (state, action) => {
2   if(action.type === 'CLEAR_CART'){
3     return {...state, cart: [], amount: 0, total: 0 }
4   }
5   if(action.type === 'INCREASE') {
6     let tempCart = state.cart.map((cartItem) => {
7       if(cartItem.id === action.payload) {
8         return { ...cartItem, amount: cartItem.amount + 1 };
9       }
10      return cartItem;
11    });
12    return {...state, cart: tempCart}
13  }
14  if(action.type === 'GET_TOTALS'){
15    let {total, amount} = state.cart.reduce((cartTotal, cartItem) => {
16      const {price, amount} = cartItem;
17      const itemTotal = price * amount;
18      cartTotal.total += itemTotal;
19      cartTotal.amount += amount;
20      return cartTotal;
21    },{
22      total: 0,
23      amount: 0
24    });
25
26    total = parseFloat(total.toFixed(2));
27
28    return {...state, total, amount: amount}
29  }
30 }
31
32
33 export default Reducer_xx;
34
```

W15-P5: put remove cart item function in global context

W15-P6: provide decrease function in global context

```
src > components > JS CartItem_27.js > CartItem > decrease
8 <img src={img} alt={title} />
9 <div>
10   <h4>{title}</h4>
11   <h4 className='item-price'>${price}</h4>
12   /* remove button */
13   <button className='remove-btn' onClick={() => removeButton}>
14     remove
15   </button>
16 </div>
17 <div>
18   /* increase amount */
19   <button className='amount-btn' onClick={() => increase(id)}>
20     <svg xmlns='http://www.w3.org/2000/svg' viewBox='0 0 20 20'>
21       <path d='M10.707 7.051 10 6.343 4.343 12.141 1.414 10 9.172 4.243' />
22     </svg>
23   </button>
24   /* amount */
25   <p className='amount'>{amount}</p>
26   /* decrease amount */
27   <button className='amount-btn' onClick={() => decrease(id)}>
28     <svg xmlns='http://www.w3.org/2000/svg' viewBox='0 0 20 20'>
29       <path d='M9.293 12.951 7.051 10 9.172 4.243 10 5 12.951 9.293' />
30     </svg>
31   </button>
32 </div>
33 </article>
34 </div>
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W15-logs: git logs

```
$ git log --pretty=format:"%h%x09%an%x09%ad%x09s" --after="2022-12-13"
66ea9ae 210417027    Wed Dec 14 21:48:07 2022 +0800    W15-P6: provide decrease function in global context
ec1f732 210417027    Wed Dec 14 21:30:39 2022 +0800    W15-P4: provide get total function in global context
a69cbfd 210417027    Wed Dec 14 20:12:07 2022 +0800    W15-P3: put clear cart function in global context
10873b0 210417027    Wed Dec 14 19:48:02 2022 +0800    W15-P2: replace data in CartContainer using global context
c5a788f 210417027    Wed Dec 14 19:20:45 2022 +0800    W15-P1: Setup AppProvider_xx for App_xx and get state data
```