**\*)Context API :**

We create context object as below , and it comes with two components Provider and Consumer.

const ProductContext = React.createContext();

Provider provides data to whole application , so shd be set up on the top of app i.e in **index.js wrapped around** **<App/>**

Consumer will be the means to use the data , so we don’t need to pass data via props.

import React, { Component } from "react";

import { storeProducts, detailProduct } from "./data";

const ProductContext = React.createContext();

//Provider

//Consumer

class ProductProvider extends Component {

state = {

products: storeProducts,

detailProduct: detailProduct

};

handleDetail = () => {

console.log("hello from detail");

};

addToCart = () => {

console.log("hello from add to cart");

};

render() {

return (

<ProductContext.Provider

value={{

...this.state,

handleDetail: this.handleDetail,

addToCart: this.addToCart

}}

>

{this.props.children}

</ProductContext.Provider>

);

}

}

const ProductConsumer = ProductContext.Consumer;

export { ProductProvider, ProductConsumer };

\*propTypes in react is used to check the datatype mismatches in app

\*when we pass the data.js array of objects to product.js its passed as reference , so any change on state will impact the original data also so we copy the data coming in and then use.

So we copy product data as shown , for the detailProduct we follow usual reference copying which doesn’t matter.

\*)ProductConsumer and ProductProvider combo we used to pass data and in cartList and CartItem component we passed data by props.