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//main file for rendering app's UI
//Oscar Chavez April 2017
//ReactJS, Bootstrap, jQuery, Babel, Webpack,
//FrontEnd main.js
var React = require('react');
var ReactDOM = require('react-dom');

var storeData = {
        "RESTAURANT_NAME" : "THe chillBill Cafe",
        "TITLE" : "Menu",
}

//pairs with itemsDB will admit it needs better implementation
var categoriesDB = {
        "CATEGORY1" : "Breakfast",
        "CATEGORY2" : "Sandwich",
        "CATEGORY3" : "Dinner",
}

var itemsDB = [ {"itemID":1001,"name":"Ranch House
Combo","imgURL":"https://placehold.it/200","price":8,"category":"Breakfast"},
{"itemID":1002,"name":"Huevos Ranch
House","imgURL":"https://placehold.it/200","price":7,"category":"Breakfast"},
{"itemID":1003,"name":"Steak &
Eggs","imgURL":"https://placehold.it/200","price":11,"category":"Breakfast"},
{"itemID":1004,"name":"Hamburger","imgURL":"https://placehold.it/200","price":8,"category":"
Sandwich"},{"itemID":1005,"name":"Hot Ham &
Cheese","imgURL":"https://placehold.it/200","price":8,"category":"Sandwich"},
{"itemID":1006,"name":"BLT","imgURL":"https://placehold.it/200","price":8,"category":"Sandwi
ch"},
{"itemID":1007,"name":"Chicken Fried
Steak","imgURL":"https://placehold.it/200","price":10,"category":"Dinners"},
{"itemID":1008,"name":"Chopped
Steak","imgURL":"https://placehold.it/200","price":10,"category":"Dinners"},
{"itemID":1009,"name":"Tilapia","imgURL":"https://placehold.it/200","price":10,"category":"D
inners"}, ]

//Variables for app
const CATEGORY1 ="Breakfast";
const CATEGORY2 = "Sandwich";
const CATEGORY3 ="Dinners";

class Header extends React.Component{
        render(){

                var style = {
                        backgroundColor: "blue",
                        height: "100px",
                }

                return(
                        <nav >
                                <div className="container-fluid" style={style}>
                                        <h1 className="text-center">
{this.props.restaurantName} </h1>
                                </div>
                        </nav>
                        )}} // end of header component

class Footer extends React.Component{

        render(){
                var style ={
                        backgroundColor: "blue",
                        height: "200px",
                }
                return(
                        <div className="container-fluid" style={style}>
                                </div>
        )}}









class Item extends React.Component {

  /**/

  constructor(props){
        super(props);

        this.handleQuantityButton = this.handleQuantityButton.bind(this)

        this.state = this.props.item; //state = { name: "blah blah", multipleProperties: 
"because its aon json object"}
  }//end constructor

  handleQuantityButton(n){
        this.setState({
                quantity: n
        })
  }

  //this bad boy lifts state up to menu component
  handleAddToCart(){
        if (this.state.quantity > 0){
                this.props.addToCart(this.state);
        }
  }

  render(){

        var style = {
                backgroundColor: "gray",
        }

    return(
                <div className="col-sm-4" >
                    <div className="container-fluid" style={style} >
                            <h3 className="text-center"> {this.props.item.name}</h3>
                            <img className="img-fluid" src={this.props.item.imgURL}/>
                            <div className="row">
                                    <div className="col-sm-6">
                                            <div className="dropdown">
                                                            <button className="btn btn-
default dropdown-toggle" type="button" id="dropdownMenu1" data-toggle="dropdown" aria-
haspopup="true" aria-expanded="true">
                                                                    Qty: 
{this.state.quantity}
                                                            <span className="caret">
</span>
```

```
                                                                </button>
                                                                <ul className="dropdown-
menu" aria-labelledby="dropdownMenu1">
                                                                <li><button className="btn
btn-default" onClick={()=>this.handleQuantityButton(1)} > 1 </button></li>
                                                                <li> <button className="btn
btn-default" onClick={()=>this.handleQuantityButton(2)} > 2 </button> </li>
                                                                <li><button className="btn
btn-default" onClick={()=>this.handleQuantityButton(3)} > 3 </button>   </li>
                                                                </ul>
                                                        </div>
                                                </div>
                                                <div className="col-sm-6">
                                                        <button onClick=
{()=>this.handleAddToCart()}> Add to Cart</button>
                                                </div>
                                        </div>
                                </div>
                        </div>
   )//end of return}}








class Payment extends React.Component{
        render(){
                return(
                        <div className="row ">
                                <div className="col-md-12">
                                        <h2> Payment Information </h2>
                                        <form action="http://localhost:3000/form_userInfo"
method="post">
                                                <h5>Form </h5>
                                                <div className="row">
                                                        <div className="col-xs-3">
                                                                First Name:
                                                        </div>
                                                        <div className="col-xs-3">
                                                                <input type="text"
name="firstname" />
                                                        </div>
                                                </div>
                                                <div className="row">
                                                        <div className="col-xs-3" >
                                                                Last Name:
                                                        </div>
                                                        <div className="col-xs-3">
                                                                <input type="text"
name="lastname"/>
                                                        </div>
                                                </div>
                                                <button type="submit" className="btn">
Submit </button>
                                        </form>
                        </div></div>
        )}}

class SubShoppingCartItem extends React.Component{
        render(){
                var style = {
                        backgroundColor: "red",
                        borderColor: "black",
                        border: "solid",
                        borderWidth: "5px",
                        minHeight: "100px",
                        minWidth: "100px"
                }
                return(
                        <div className = "col-sm-2" style={style}>
                        <h1> {this.props.item.name} </h1>
                </div>
                        )}}


class SubShoppingCart extends React.Component{

        render(){

                var style = {
                        backgroundColor: "pink",
                }

                var Order = this.props.order;
                var orderItemized = [];

                Order.forEach((object,index) => {
                        orderItemized.push(<SubShoppingCartItem item={object} /> )
                })

                return(
                        <div  className="container-fluid" style={style}>
                                <div className="row">
                                        {orderItemized}
                        </div></div>
                        )}}
















class ShoppingCart extends React.Component{

        //ShoppingCart is responsible for rendering the items
        //in the shopping cart, with the ability to remove from it.
        //it also has a button that when pressed,
        //the payment collection component is renderered

        constructor(props){
                super();
                this.state ={
                        paymentToggle: false,
                }
        }

        calculateSum(){
                var sum=0;
                for (var i =0 ; i <this.props.order.length; i++){
                        sum = sum + this.props.order[i].price
                }
                return sum
        }

        //needs to be lifted up to state
        paymentToggleController(){
                console.log("checkout button pressed")
                if (this.state.paymentToggle == false){
                        this.setState({ paymentToggle: true })
                } else {
                        this.setState({ paymentToggle: false })
                }
        }

        paymentRender(){
                return <Payment />
        }

        render(){

                //get local copy of order
                var Order = this.props.order;

                //array will contain ItemShoppingCart components
                var orderList = []

                Order.forEach((element,index) => {
                        orderList.push(<Item item={element} />)
                })

                //the sum of the total order
                var sum = this.calculateSum();

                //css
                var style = {
                        "backgroundColor": "green",
                        "marginTop": "100px"
                }
                //end css
                return(
                                <div  className=" container-fluid " style={style}>
                                        <div className="container">
                                                <div className="row">
                                                        <h1>ShoppingCart</h1>
                                                        {orderList}
                                                </div>
                                                <div className="row">
                                                        <h2> Total: {sum}</h2>
                                                        <button onClick=
{()=>this.paymentToggleController()}> Checkout </button>
                                                </div>
                                                {this.paymentRender()}
                                                {/*this.state.paymentToggle ?
this.paymentRender(): ""*/}
                                        </div>
                                </div>
                        )}}

class Menu extends React.Component{
        ///State////////////////
        constructor(props){
                super();
                //virtual order will be an array of objects, each objects is an item in a
virtual shopping cart or order
                //example: virtualOrder = [{itemName: "food", quantity: 4, price: 12.00},
{itemName: "food", quantity: 4, price: 12.00}]
                this.state = {
                        virtualOrder: []
                }
        }//////////////////////

        //Functions passed down to components/////////////////////
        //addToCart() is passed to <Item /> Component in props
        //its function is to update the state.virtualOrder to append and item to the
virualOrder array
        //the item
        addToCart(item){
                this.setState((prevState) => ({
                        virtualOrder: prevState.virtualOrder.concat([item])
                }))
        }
        ////////////////////////////////////////////////////////end of functions passed to
components
        render(){

                var activeOrder = this.state.virtualOrder;

                var categoriesArray = [];


                var category1 = this.props.category1;
                var category2 = this.props.category2;
                var category3 = this.props.category3;

                //Code below handles sorting the data and creating
                //new array with only appetizer objects
                var category1Array =[];


                this.props.items.forEach( (element,index)=>{
                        if (element.category== category1 ){
                                category1Array.push(
                                                                        <Item   item =
{element}

addToCart = {(item)=> this.addToCart(item)}
                                                                        />
                                                         );
                        }
                });
                //
                //*Category 2
                var category2Array = [];
                this.props.items.forEach((element, index) => {
                        if(element.category==category2){
                                category2Array.push(<Item item={element}
                                                                        addToCart =
{(item)=> this.addToCart(item)}
                                                                        />)
                        }
                })
                //
                //*Category 3 . check the condition to know what kind of cateogry
                var category3Array = [];
                this.props.items.forEach((element,index) =>{
                        if (element.category== category3){
                                category3Array.push(<Item item={element}
                                                                        addToCart =
{(item)=> this.addToCart(item)}
                                                                         />)
                        }
                })

                function shoppingCartRender(){
                        //render sC when it's not empty
                        //feed activeOrder to ShoppingCart component to render
                        //only after user has added >0 products to cart

                        if (activeOrder.length > 0){
                                return <div> {<ShoppingCart order={activeOrder} />} </div>

                        }
                }

                function subShoppingCartRender(){
                        if (activeOrder.length > 0 ){
                                return <div> {<SubShoppingCart order={activeOrder} /> }
</div>
                        }
                }

                //css styles
                var style = {
                        "backgroundColor": "yellow",
                        "paddingBottom": "100px",
                }

                return(

                        <div className="container" style={style}>

                                <h1 className="text-center"> {this.props.title}</h1>

                                {<Payment />}

                                <div className="row" >
                                        <h2 className="text-center"> {this.props.category1}
</h2>
                                        {category1Array}
                                </div>

                                <div className="row">
                                        <h2 className="text-center"> {this.props.category2}
</h2>
                                        {category2Array}
                                </div>

                                <div className="row">
                                        <h2 className="text-center"> {this.props.category3}
</h2>
                                        {category3Array}
                                F</div>

                                {/*Conditional rendering of shopping Cart*/}
                                {shoppingCartRender()}
                        </div>
                        )}}

//ITEMS from main data base
class App extends React.Component{

        render(){

                var style = {
                        backgroundColor: 'red',
                }
                        return(

                        <div className="container-fluid" style={style} >
                                {<Header restaurantName={storeData.RESTAURANT_NAME} />}
                                {<Menu items={itemsDB} title={storeData.TITLE} categories=
{categoriesDB} category1={CATEGORY1} category2={CATEGORY2} category3={CATEGORY3}/> }
                                {<Footer />}

                        </div>
        )}}

//Main()
ReactDOM.render(
  <App />,
  //WHERE TO RENDER VIRTUAL DOM
  document.getElementById('root')
);
```