PCS JavaScript Quiz

Write an Item class. Items will have a name, price, and quantity.

Write an Order class. Orders will have a customer name, customer address, and an array of items (yes, name and address should perhaps go into a customer object but to keep things simple, we won’t bother with that for now). Orders also will have a total GETTER that returns the total cost of the order.

Write code to load a particular “orders” JSON file by name when the user clicks a “load” button. Create instance(s) of your order and item classes from the loaded JSON. Display the loaded orders in the HTML page (minimal CSS required, it doesn’t need to look pretty. See example HTML output below).

See sample JSON below. (JSON file will be in same directory as html file. In a more real application, instead of loading a pre-canned JSON file, we would instead be asking a server for particular orders, perhaps by customer account number or similar, and it would query a database and return the appropriate orders as JSON)

Note that due to bad planning there is a disconnect between the JSON (which we are pretending to dynamically get from someone else’s live server – so we can’t change it) and the classes. For each item the JSON has the total price for the quantity ordered, while the item class wants the price of a single item. You will have to translate this when creating your items instances.

Also note that while this particular sample JSON has 2 orders, your code must handle any number of orders each with any number of items – from 0 to hundreds…

[

    {

        "customer": "Bob",

        "address": "123 Any Street Lakewood NJ 08701",

        "items": [

            {

                "item": "cookies",

                "quantity": 5,

                "total": 4.95

            },

            {

                "item": "jelly beans",

                "quantity": 2,

                "total": 3

            }

        ]

    }, {

        "customer": "Joe",

        "address": "456 Any Street Lakewood NJ 08701",

        "items": [

            {

                "item": "carrots",

                "quantity": 3,

                "total": 1.02

            }

        ]

    }

]

Sample HTML output:

Customer: Bob

Address: 123 Any Street Lakewood NJ 08701

Total: 7:95

Items:

Item: Cookies

Quantity: 5

Price: .99

Item: Jelly Beans

Quantity: 2

Price: 1.50

Customer: Joe

Address: 456 Any Street Lakewood NJ 08701

Total: 1.02

Items:

Item: carrots

quantity: 3

price: .34