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CS20 - Web Programming
Professor DiOrio
Assignment 8: Jade Delight

Online Link
https://mattia-danese.github.io/CS20-hw8/jade_delight.html

Questions

1. If I had an extra two weeks for this project, the features I would add are: “clear order” button, a 10% coupon for orders above $20 (like Joe’s Hotdogs), and displaying an image of the food when a food ‘item name’ is hovered over.
2. The thing I least like about Javascript is that there are no declared types. This can be nice sometimes but usually I just get confused or forget the type of a variable. As a result, I waste a lot of time debugging my code when I pass the wrong variable type to a function or call a function off a variable that is the wrong type.

Added Code (Javascript)

```
   // SELECTING QUANTITY FUNCTIONALITY
   function updateSubTaxTotal(){
       let subtotal = 0, tax = 0, total = 0;
       let totals = document.getElementsByClassName("totalCost");

       for (i=0; i < totals.length; i++){
           let val = parseFloat(totals[i].children[0].value);
           subtotal += isNaN(val) ? 0 : val;
       }

       tax = Math.round(((subtotal * 0.0625) + Number.EPSILON) * 100) / 100;
       total = Math.round(((subtotal + tax) + Number.EPSILON) * 100) / 100;

       document.getElementById("subtotal").value = subtotal.toFixed(2);
       document.getElementById("tax").value = tax.toFixed(2);
       document.getElementById("total").value = total.toFixed(2);
   }

   function itemTotal(idx, e){
       let total = Math.round(((menuItems[idx].cost * e.value) +
Number.EPSILON) * 100) / 100;

       document.getElementsByClassName("totalCost")[idx].children[0].value =
total.toFixed(2);

       updateSubTaxTotal();
   }

   let tds = document.getElementsByClassName("selectQuantity");
   for (i=0; i < tds.length; i++){
       let td = tds[i];
       let idx = parseInt(td.children[0].name[4]);
       let dropdown = td.children[0];

       td.addEventListener("change", function() {itemTotal(idx, dropdown);})
   }

   // STREET AND CITY FIELDS FUNCTIONALITY
   function showCityStreet(r){
       let elems = document.getElementsByClassName("address");
       if (r.checked){
           for (i=0; i < elems.length; i++){
```

```
            elems[i].style = "display: block;";
        }
    }
}

function hideCityStreet(r){
    let elems = document.getElementsByClassName("address");
    if (r.checked){
        for (i=0; i < elems.length; i++){
            elems[i].style = "display: none;";
        }
    }
}

let radioPickup = document.getElementsByName("p_or_d")[0];
let radioDelivery = document.getElementsByName("p_or_d")[1];
radioPickup.addEventListener("change", function ()
{hideCityStreet(radioPickup);})
radioDelivery.addEventListener("change", function ()
{showCityStreet(radioDelivery);})
hideCityStreet(radioPickup); //pickup is initially selected

// SUBMIT FUNCTIONALITY
function validateSubmit(){
    // verify last and phone
    let last = document.getElementsByName("lname")[0].value;
    let phone = document.getElementsByName("phone")[0].value;
    let verifyPhone = function () {
        let count = 0;
        for(i=0; i < phone.length; i++){
            if(!isNaN(parseInt(phone[i]))) {count++;}
        }
        if(count == 7 || count == 10) {return true;}

        return false;
    }


    if (!(last != "" && verifyPhone(phone))){
        alert("Your last name and phone number (7 or 10 digits) are
required!");
        return;
    }
```

```
        //calculate pickup/delivery time
        let isPickup = document.getElementsByName("p_or_d")[0].checked;
        let old_time = new Date();
        let new_time = isPickup ?  new Date(old_time.getTime() + 15*60000) :
                                   new Date(old_time.getTime() + 30*60000);

        //verify street and city if delivery
        if(!isPickup){
            let street = document.getElementsByName("street")[0].value;
            let city = document.getElementsByName("city")[0].value;
            if(street == "" || city == ""){
                alert("Please specify your street and city address!");
                return;
            }
        }

        //verify at least one item is ordered
        let total = document.getElementById("total").value;
        console.log(total);
        if(total == "" || total == "0.00"){
            alert("Please order at least one item before submitting your
order!");
            return;
        }

        // no issues, display order details in new window/tab
        alert("Thank you for your order!");

        newWindow = window.open("","","");
        newWindow.document.write("<h1>Order Details</h1>");

        let quantities = document.getElementsByClassName("selectQuantity");
        let totals = document.getElementsByClassName("totalCost");
        let content = "<table border='0' cellpadding='3'><tr><th>Selected
Items</th><th>Item Name</th><th>Cost Each</th><th>Total Cost</th></tr>";

        for (i=0; i < menuItems.length; i++){
            content += "<tr>";
            content += td(quanquantitiestites[i].children[0].value,
"selectQuantity");
            content += td(menuItems[i].name, "itemName");
            content += td("$" + menuItems[i].cost.toFixed(2), "cost");
```

```
            content += td(totals[i].children[0].value ? "$" +
totals[i].children[0].value : "$0", "totalCost");
            content += "</tr>";
        }

        content += "</table>";
        content += ("<div>Tax: $" + document.getElementById("tax").value +
"</div>");
        content += ("<div>Total: $" + document.getElementById("total").value +
"</div>");

        let time = new_time.toLocaleString('en-US', { hour: 'numeric', minute:
'numeric', hour12: true });

        if(isPickup){
            content += ("<div>Time until pickup: " + time + "</div>");
        }
        else{
            content += ("<div>Time until delivery: " + time + "</div>");
        }
        newWindow.document.write(content);
    }

    let submit = document.getElementsByTagName("input")[15];
    submit.addEventListener("click", function () {validateSubmit();});
```

Added Code (CSS)

```
.userInfo input{
   position: fixed;
   left: 100px;
}

.totalSection input{
   position: fixed;
   left: 127px;
}
```