CS20\_A8

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Website Link: <https://wmcleish.github.io/CS20_A8/jade_delight.html>

**Jade Delight**

Questions:

* If I had two extra weeks for this project, I would attempt to integrate the website with the google maps API to provide an accurate delivery time. I could also add more styling to both the main page and the order summary.
* The thing I like least about JavaScript is that it is difficult to keep track of and get different variables from the html page. I feel like there are 15 different functions to get elements by names, classes, ids, and they all have slightly different functionality.

**Jade\_Delight.html:**

<!DOCTYPE html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Jade Delight</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<script>

function MenuItem(name, cost)

{

this.name = name;

this.cost=cost;

}

menuItems = new Array(

new MenuItem("Chicken Chop Suey", 4.5),

new MenuItem("Sweet and Sour Pork", 6.25),

new MenuItem("Shrimp Lo Mein", 6.25),

new MenuItem("Moo Shi Chicken", 7.5),

new MenuItem("Fried Rice", 2.85)

);

/\*

\* Updates the item price when new quantity is entered as well as

\* the subtotal, tax, and total for the order

\*/

function updateCost(){

var quantity;

var subtotal = 0;

for (i = 0; i < menuItems.length; i++){

quantity = document.getElementsByName("quan" + i)[0].value;

if (parseInt(quantity) != 0){

itemCost = (parseInt(quantity) \* menuItems[i].cost).toFixed(2)

document.getElementsByName("cost")[i].value = itemCost;

subtotal += parseFloat(itemCost);

}

}

tax = subtotal \* 0.0625;

total = subtotal + tax;

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

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

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

}

/\*

\* returns bool if delivery is selected

\*/

function isDelivery(){

return document.getElementsByName("p\_or\_d")[1].checked;

}

/\*

\* Hides and unhides the street and city if delivery or pickup is selected

\*/

function validateDelivery(){

if (isDelivery()){

document.getElementsByClassName("userInfo address")[0].style.display = "table-row";

document.getElementsByClassName("userInfo address")[1].style.display = "table-row";

} else {

document.getElementsByClassName("userInfo address")[0].style.display = "none";

document.getElementsByClassName("userInfo address")[1].style.display = "none";

}

}

/\*

\* Validation function that alerts if user tries to submit anything that is not allowed

\*/

function validateSubmission(){

// first name last name have values

if (document.getElementsByName("fname")[0].value == "" || document.getElementsByName("lname")[0].value == ""){

alert("First and Last name are required");

return;

}

// Phone number 7-10

if (document.getElementsByName("phone")[0].value.length != 7 && document.getElementsByName("phone")[0].value.length != 10){

alert("Please provide a valid phone number");

return;

}

// pickup time = current + 15, del = 30 (date class)

var orderTime;

time = new Date();

if (isDelivery()){

time.setMinutes ( time.getMinutes() + 30 );

orderTime = time.getHours() + ":" + (time.getMinutes());

} else {

time.setMinutes ( time.getMinutes() + 15 );

orderTime = time.getHours() + ":" + (time.getMinutes());

}

// Delivery requires street and city

if (isDelivery()){

if (document.getElementsByName("street")[0].value == "" || document.getElementsByName("city")[0].value == ""){

alert("Address is required for delivery");

return;

}

}

// Order needs at least one item

var count = 0;

for (i = 0; i < menuItems.length; i++){

count += document.getElementsByName("quan" + i)[0].value;

}

if (count == 0){

alert("Select at least one item");

return;

}

alert("Thank you for your order!")

var win = window.open("", "Order Summary", "toolbar=no,location=no,directories=no,status=no,menubar=no,scrollbars=yes,resizable=yes,width=780,height=300");

newWindowString = "<style>body {background-color: #00A36C;font-family: 'Courier New', Courier, monospace;}</style><h1>Order Summary:</h1>";

// Item names, quantities and their pricecs

for (i = 0; i < menuItems.length; i++){

quantity = (document.getElementsByName("quan" + i)[0].value);

if (quantity > 0){

itemCost = (document.getElementsByName("cost")[i].value);

newWindowString += ("<strong>" + menuItems[i].name + "</strong> \* " + quantity + ": $" + itemCost + "<br>");

}

}

// Totals, tax, ready time

newWindowString += ("<br><strong>Subtotal:</strong> $" + subtotal.value + "<br>");

newWindowString += ("<strong>Tax:</strong> $" + tax.toFixed(2) + "<br>");

newWindowString += ("<strong>Total:</strong> $" + total.toFixed(2) + "<br>");

newWindowString += ("Your order will be ready by: " + orderTime);

win.document.body.innerHTML = newWindowString;

}

function makeSelect(name, minRange, maxRange)

{

var t= "";

t = "<select name='" + name + "' size='1' >";

for (j=minRange; j<=maxRange; j++)

t += "<option>" + j + "</option>";

t+= "</select>";

return t;

}

function td(content, className="")

{

return "<td class = '" + className + "'>" + content + "</td>";

}

</script>

<h1>Jade Delight</h1>

<form>

<p class="userInfo"><label>First Name:</label> <input type="text" name='fname' /></p>

<p class="userInfo"><label>Last Name\*:</label> <input type="text" name='lname' /></p>

<p class="userInfo address"><label>Street\*:</label> <input type="text" name='street' /></p>

<p class="userInfo address"><label>City\*:</label> <input type="text" name='city' /></p>

<p class="userInfo"><label>Phone\*:</label> <input type="text" name='phone' /></p>

<p>

<input type="radio" name="p\_or\_d" value = "pickup" checked="checked" />Pickup

<input type="radio" name='p\_or\_d' value = 'delivery' />

Delivery

</p>

<table border="0" cellpadding="3">

<tr>

<th>Select Item</th>

<th>Item Name</th>

<th>Cost Each</th>

<th>Total Cost</th>

</tr>

<script>

var s = "";

for (i=0; i< menuItems.length; i++)

{

s += "<tr>";

s += td(makeSelect("quan" + i, 0, 10),"selectQuantity");

s += td(menuItems[i].name, "itemName");

s += td("$" +menuItems[i].cost.toFixed(2), "cost");

s += td("$<input type='text' name='cost'/>", "totalCost");

s+= "</tr>";

}

document.writeln(s);

</script>

</table>

<p class="subtotal totalSection"><label>Subtotal:</label>

$ <input type="text" name='subtotal' id="subtotal" />

</p>

<p class="tax totalSection"><label>Mass tax 6.25%:</label>

$ <input type="text" name='tax' id="tax" />

</p>

<p class="total totalSection"><label>Total:</label> $ <input type="text" name='total' id="total" />

</p>

<input type = "button" value = "Submit Order"/>

<script>

document.getElementsByTagName("tbody")[0].addEventListener("change", updateCost);

document.getElementsByName("p\_or\_d")[0].addEventListener("change", validateDelivery);

document.getElementsByName("p\_or\_d")[1].addEventListener("change", validateDelivery);

document.querySelector("input[type='button']").addEventListener("click", validateSubmission);

</script>

</form>

</body>

</html>

**Styles.css:**

.userInfo address {

display: none;

}

body {

background-color: #00A36C;

font-family: 'Courier New', Courier, monospace;

}

form { display: table; }

p { display: table-row; }

label { display: table-cell; }

input { display: table-cell; }