

Assignment 8: Jade Delight

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URL

http://comp20.great-site.net/Assignment8/jade_delight.html

Code

HTML

```
<p>First Name: <input type="text" name='fname' /></p>
<p>Last Name*: <input type="text" name='lname' /><div id="errName"
class="errMsg">Last Name is required</div></p>

<p>Phone*: <input type="text" name='phone' />
    <div id="errPhone" class="errMsg">Phone number is required</div>
    <div id="invalidPhone" class="errMsg">Phone number is not valid</div>
</p>
<p>Please enter the phone number directly. Example: "9999999999"</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>

<div id = "address">
<p>Street: <input type="text" name='street' /><div id="errStreet"
class="errMsg">Street is required</div></p>
<p>City: <input type="text" name='city' /><div id="errCity" class="errMsg">City
is required</div></p>
</div>
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<input type = "button" onclick = "order()" value = "Submit Order" />
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<script language = "javascript">
    //global variables
    var quantity = [0, 0, 0, 0, 0, 0];
    var price = [0, 0, 0, 0, 0, 0];
    var deliverTime = "";
    var orderTime = "";
    // set the error messages invisible
    document.getElementById("errName").style.display = "none";
    document.getElementById('invalidPhone').style.display = "none";
    document.getElementById('errPhone').style.display = "none";
    document.getElementById('errCity').style.display = "none";
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document.getElementById('errStreet').style.display = "none";

// automatically update the cost, subtotal, tax, and the total
// while the user enters the quantity
for (i = 0; i < menuItems.length; i++){
    $('select[name = quan' + i + '']')[0].onchange = function(){
        i = this.name.substring(4);
        quantity[i] = this.selectedIndex; //
        price[i] = menuItems[i].cost;
        $('input[name = cost]')[i].value = (price[i] *
quantity[i]).toFixed(2);
        calTotal();
    };
}

// return true if the user pickup, false otherwise
function choosePickup(){
    deliveryType = $('input[name = p_or_d]:checked').val();
    if (deliveryType == 'pickup'){
        return true;
    } else {
        return false;
    }
}

// if the user choose pickup
$('input[name = p_or_d']')[0].onchange = function(){
    if (choosePickup()){
        document.getElementById("address").style.display = "none";
    }
}

// if the user choose delivery
$('input[name = p_or_d']')[1].onchange = function(){
    if (!choosePickup()){
        document.getElementById("address").style.display = "block";
    }
}

// calculate the subtotal, tax and the total
function calTotal(){
    subtotal = calSubtotal();
    $('input[name = subtotal]')[0].value = subtotal.toFixed(2);
    tax = subtotal * 0.0625;
    $('input[name = tax]')[0].value = tax.toFixed(2);
    $('input[name = total]')[0].value = (tax + subtotal).toFixed(2);
}

// calculate the subtotal
function calSubtotal(){
    var subtotal = 0;
    for (i = 0; i < menuItems.length; i++){
        subtotal += price[i] * quantity[i];
    }
    return subtotal;
}

// make the order
function order(){

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        informationValid = ensureInformation();
        ordered = orderSomething();
        // if the information is valid and at least order one thing
        if (informationValid && ordered){
            print();
        }
    }

    // ensure the last name and the phone number is entered
    function ensureInformation(){
        nameValid = lastName();
        phoneValid = phoneNumber();
        addressValid = address();
        if(nameValid && phoneValid && addressValid){
            return true;
        }else{
            return false;
        }
    }

    // ensure the last name is entered, if not, send the error messages
    function lastName(){
        document.getElementById('errName').style.display = "none";
        lname = $("input[name = lname]").val();
        if (lname.length == 0){
            document.getElementById('errName').style.display = "inline-block";
            return false;
        } else {
            return true;
        }
    }

    // ensure the phone number is entered and valid, if not, send the error
    messages
    function phoneNumber(){
        document.getElementById('invalidPhone').style.display = "none";
        document.getElementById('errPhone').style.display = "none";
        phone = $("input[name = phone]").val();
        if (phone.length != 0){
            number = parseInt(phone);
            if(!Number.isInteger(number) || number < 1000000000 || number >=
10000000000){
                document.getElementById('invalidPhone').style.display = "inline-
block";
                return false;
            }
            return true;
        } else {
            document.getElementById('errPhone').style.display = "inline-block";
            return false;
        }
    }

    // ensure the user at least order one thing
    function orderSomething(){
        amount = 0;
        for (i=0; i< menuItems.length; i++){
            amount += quantity[i];

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    }
    if(amount > 0){
        return true;
    } else {
        alert("You have not ordered anything!")
        return false;
    }
}

// calculate the deliver time
function calcDeliverTime(){
    var d = new Date();
    if ($('#input[name = p_or_d]:checked').val() == 'pickup'){
        d.setMinutes(d.getMinutes() + 15);
    } else {
        d.setMinutes(d.getMinutes() + 30);
    }
    deliverTime = "<strong>Expected Deliver Time</strong>: " + d.getDate() +
"/"
        + (d.getMonth()+1) + "/"
        + d.getFullYear() + " @ "
        + pad2(d.getHours()) + ":"
        + pad2(d.getMinutes()) + ":"
        + pad2(d.getSeconds());
}

// calculate the order time: adding a preceding 0 to 1 digit number
function calcOrderTime(){
    var d = new Date();
    orderTime = "<strong>Order Time</strong>: " + d.getDate() + "/"
        + (d.getMonth()+1) + "/"
        + d.getFullYear() + " @ "
        + pad2(d.getHours()) + ":"
        + pad2(d.getMinutes()) + ":"
        + pad2(d.getSeconds());
}

// helper function for time display
function pad2(number) {
    return (number < 10 ? '0' : '') + number
}

// ensure the address is entered if the user choose deliver
function address(){
    document.getElementById('errStreet').style.display = "none";
    document.getElementById('errCity').style.display = "none";

    if(choosePickup()){
        return true;
    } else {
        streetMissing = false;
        cityMissing = false;
        street = $("input[name = street]").val();
        city = $("input[name = city]").val();

        if (street.length == 0){
            document.getElementById('errStreet').style.display = "inline-
block";

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        streetMissing = true;
    }

    if (city.length == 0){
        document.getElementById('errCity').style.display = "inline-
block";
        cityMissing = true;
    }

    if(cityMissing || streetMissing){
        return false;
    } else {
        return true;
    }
}
}

function print(){
    var mywindow = window.open("", "order", "width=400, height=300");
    mywindow.document.write(thanksMessage());
    mywindow.document.write(titleMessage());
    printInformation();
    printOrder();
    printTotal();
    printTime();
}

function thanksMessage(){
    var message = "<h1>";
    message += "Thank you for your order!"
    message += "</h1>";
    return message;
}

function titleMessage(){
    var message = "<h2>";
    message += "Order Status:"
    message += "</h2>";
    return message;
}

function printInformation(){
    var mywindow = window.open("", "order", "width=400, height=300");
    message = "";
    message += nameInformation();
    message += deliveryInformation();
    mywindow.document.write(message);
}

function nameInformation(){
    var message = "";
    if ($('#input[name = fname]').val().length != 0){
        message += "<strong>Customer Name</strong>: ";
        message += $('#input[name = fname]').val() + " ";
        message += $('#input[name = lname]').val();
        message += "<br>";
    } else {

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        message += "<strong>Customer Name</strong>: ";
        message += $('input[name = lname]').val();
        message += "<br>";
    }
    return message;
}

function deliveryInformation(){
    var message = "<strong>Delivery Type</strong>: ";
    if (choosePickup()){
        message += "Pickup";
        message += "<br>";
    } else {
        street = $("input[name = street]").val();
        city = $("input[name = city]").val();
        message += "Delivery";
        message += "<br>";
        message += "<strong>Delivery Address</strong>: ";
        message += street + ", ";
        message += city + "<br>";
    }
    return message + "<br>";
}

function printOrder(){
    var mywindow = window.open("", "order", "width=400, height=300");
    message = "<table border='0' cellpadding='3'>";
    message += headers();
    message += items();
    message += "</table>";
    mywindow.document.write(message + "<br>");
}

function headers(){
    message = " <tr><th>Select Item</th><th>Item Name</th><th>Cost Each</th>
<th>Total Cost</th></tr>"
    return message;
}

function items(){
    var s = "";
    for (i=0; i< menuItems.length; i++)
    {
        if(quantity[i] != 0){
            s += "<tr><td>";
            s += quantity[i];
            s += "</td><td>" + menuItems[i].name + "</td>";
            s += "<td> $ " + menuItems[i].cost.toFixed(2) + "</td>";
            s += "<td>" + (quantity[i] * price[i]).toFixed(2) + "</td>
</tr>";
        }
    }
    return s;
}

function printTotal(){
    var mywindow = window.open("", "order", "width=400, height=300");
    subtotal = calSubtotal();

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        tax = subtotal * 0.0625;
        total = subtotal + tax;
        message = "";
        message += "<strong>Subtotal</strong>: ";
        message += subtotal.toFixed(2) + "<br>";
        message += "<strong>Tax</strong>: ";
        message += tax.toFixed(2) + "<br>";
        message += "<strong>Total</strong>: ";
        message += total.toFixed(2) + "<br>";

        mywindow.document.write(message);
    }

    // print the time
    function printTime(){
        calcDeliverTime();
        calcOrderTime();
        var mywindow = window.open("", "order", "width=400, height=600");
        mywindow.document.write(deliTime + "<br>");
        mywindow.document.write(orderTime + "<br>");
    }

    function calTotal(){
        subtotal = calSubtotal();
        $('input[name = subtotal]')[0].value = subtotal.toFixed(2);
        tax = subtotal * 0.0625;
        $('input[name = tax]')[0].value = tax.toFixed(2);
        $('input[name = total]')[0].value = (tax + subtotal).toFixed(2);
    }

</script>

```

CSS

```

@charset "utf-8";
/* CSS Document */

.errMsg {
    color: #D20E11;
    border: solid 1px #d20e11;
    padding: 1px 15px;
}

body {
    width: 70%;
    background: #686868;
    border: 5px #000000 solid;
    margin: auto;
    margin-top: 50px;
}

.block{
    background-color: #FFFFFF;
    padding: 5%;
}

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}

h1{
  padding: 5px;
  text-decoration: underline;
  font-size: 50px;
}

#information {
  border: 2px #000000 solid;
  padding: 0 3%;
}

#order {
  border: 2px #000000 solid;
  padding: 1% 3%;
  margin-top: 3%;
}

button {
  border:2px solid #000000;
  padding: 1%;
  font-weight: bold;
  margin-top:1%;
}

button:hover {
  border: 2px solid #FFFFFF;
}

input[type=text]{
  border: 2px #000000 solid;
}

select {
  border: 2px #000000 solid;
}

input[type=button]{
  margin-top: 2%;
  margin-bottom: 3%;
  border: 4px #000000 solid;
  background-color: #C2C2C2;
  padding: 5px;
  font-size: 20px;
}

input[type=button]:hover{
  border: 4px #000000 solid;
  background-color: #000000;
  color: #FFFFFF;
  padding: 5px;
}
```


