

# Assignment 13: Jade Delight Part 2

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## url

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[http://comp20.great-site.net/Assignment13/jade\\_delight.php](http://comp20.great-site.net/Assignment13/jade_delight.php)

## Question

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### 1. Do you prefer Javascript or PHP to code display of the order- and why?

I prefer PHP. This is because PHP provides a better interaction with the CSS styling, and that is hard to accomplish in the JavaScript.

### 2. How could you have used PHP to enhance your midterm project?

We make a travel agency in the midterm project, and one of the pages is a order page which allows the client to select what they are interested, provided the service names, prices, etc, which resembles this assignment a lot. To enhance our midterm project, I am think about adding a receipt page after ordering the services. Further, since we have a text box that asks the client to join our email list, we can send a thanks message to the client when they provide their email address.

## Code

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### Jade\_delight.php(PHP & HTML)

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Jade Delight</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"
integrity="sha256-/xUj+3Oj+30JU5yExlq6GSYGSHk7tPXikynS7ogEvDej/m4="
crossorigin="anonymous"></script>
<link rel="stylesheet" href="style.css">
</head>

<body>
<!-- use the php to get the name and prices in the database-->
<?php
    $items = array();

    //Establish connection info
    $server = "sql204.epizy.com";
    $userid = "epiz_27905924";
    $pw = "bMoFMy4qPKwwG";
    $db = "epiz_27905924_Jade_delight";
```

```

//Create connection
$conn = new mysqli($server, $userid, $pw);

//Check connection
if ($conn->connect_error){
    die("Connection failed:". $conn->connect_error);
}

//Select database
$conn->select_db($db);

//run a query
$sql = "SELECT * FROM `Item&price`";
$result = $conn->query($sql);

//get result
if ($result->num_rows>0){
    while ($row = $result->fetch_assoc()){
        $items[] = $row;
    }
} else {
    echo "no results";
}

?>
<script language="javascript">
function MenuItem(name, cost)
{
    this.name = name;
    this.cost=cost;
}

menuItems = new Array(
    new MenuItem("<?php echo $items[0]['Name']; ?>", <?php echo $items[0]
['Price']; ?>),
    new MenuItem("<?php echo $items[1]['Name']; ?>", <?php echo $items[1]
['Price']; ?>),
    new MenuItem("<?php echo $items[2]['Name']; ?>", <?php echo $items[2]
['Price']; ?>),
    new MenuItem("<?php echo $items[3]['Name']; ?>", <?php echo $items[3]
['Price']; ?>),
    new MenuItem("<?php echo $items[4]['Name']; ?>", <?php echo $items[4]
['Price']; ?>),
);

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;
}

</script>
<div class = "block">
<h1>Jade Delight</h1>

```

```

<form method='get' onsubmit="return order()" action='http://comp20.great-
site.net/Assignment13/process.php'>

<div id = "information">
<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>Email*: <input type="text" name='email' />
    <div id="errEmail" class="errMsg">Email is required</div>
    <div id="invalidEmail" class="errMsg">Email is not valid</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>

</div>

<div id = "order">
<table border="0" cellpadding="3">
    <tr>
        <th>Select Item</th>
        <th>Item Name</th>
        <th>Cost Each</th>
        <th>Total Cost</th>
    </tr>
</table>
<script language="javascript">

    var s = "";
    for (i=0; i< menuItems.length; i++)
    {
        s += "<tr><td>";
        s += makeSelect("quan" + i, 0, 10);
        s += "</td><td>" + menuItems[i].name + "</td>";
        s += "<td> $ " + menuItems[i].cost.toFixed(2) + "</td>";
        s += "<td>$<input type='text' name='cost' /></td></tr>";
    }
    document.writeln(s);
</script>
</table>
<p>Subtotal: $ <input type="text" name='subtotal' id="subtotal" />
</p>

```

```

<p>Mass tax 6.25%:
  $ <input type="text" name='tax' id="tax" />
</p>
<p>Total: $ <input type="text" name='total' id="total" />
</p>

<input type = "submit" value = "Submit Order" />
</div>
</div>

<script language = "javascript">
  //global variables
  var quantity = [0, 0, 0, 0, 0];
  var price = [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('invalidEmail').style.display = "none";
  document.getElementById('errEmail').style.display = "none";
  document.getElementById('errCity').style.display = "none";
  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(){
    informationValid = ensureInformation();
    ordered = orderSomething();
    // if the information is valid and at least order one thing
    if (informationValid && ordered){
        return true;
    } else {
        return false;
    }
}

// ensure the last name and the phone number is entered
function ensureInformation(){
    nameValid = lastName();
    phoneValid = phoneNumber();
    emailValid = emailAddress();
    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;
    }
}

function emailAddress(){
    document.getElementById('invalidEmail').style.display = "none";
    document.getElementById('errEmail').style.display = "none";
    email = $("input[name = email]").val();
    if (email.length != 0){
        if(!validateEmail(email)){
            document.getElementById('invalidEmail').style.display = "inline-
block";

            return false;
        }
        return true;
    } else {
        document.getElementById('errEmail').style.display = "inline-block";
        return false;
    }
}

function validateEmail(email) {
    const re = /^((^[<>()[]\]\.\.,;:\s@"']+(\^[<>()[]\]\.\.,;:\s@"']+)*)|
(\".+\")@((\[[0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\. [0-9]{1,3}\])|((\[a-zA-Z-0-
9]+\.\.)+[a-zA-Z]{2,}))$/;
    return re.test(email);
}

// ensure the user at least order one thing
function ordersSomething(){
    amount = 0;
    for (i=0; i< menuItems.length; i++){
        amount += quantity[i];
    }
    if(amount > 0){
        return true;
    } else {
        alert("You have not ordered anything!")
        return false;
    }
}

```

```

    }
}

// 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";

            streetMissing = true;
        }

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

            cityMissing = true;
        }

        if(cityMissing || streetMissing){
            return false;
        } else {
            return true;
        }
    }
}
</script>
</form>
</body>
</html>

```

## process.php (php)

```

<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Receipt</title>
<link rel="stylesheet" href="style.css">
<style>
    table {
        text-align: left;
        border: 1px solid #000000;
        margin: 1%;
        width: 97%;
    }

```

```

body {
    background-color:#FFFFFF;
}

h1 {
    font-size: 40px;
    margin-left: 1%;
}

h2 {
    font-size: 30px;
    margin-left: 1%;
}
</style>
</head>

<body>
    <?php
    //declare the items as an array
    $items = array();

    //add the message and the title to the string
    $str = "<h1>Thank you for your order!</h1>";
    $str .= "<h2>Order Status:</h2>";

    //get client information
    $name = $_GET['fname'];
    $name .= " ".$_GET['lname'];
    $phone = $_GET['phone'];
    $email = $_GET['email'];
    $address = $_GET['street'];
    $address .= ", ".$_GET['city'];

    //add client information to the output string
    $str .= "<table cellpadding='4'>
    <tr>
        <th>Name: </th>
        <td>$name</td>
    </tr>
    <tr>
        <th>Email: </th>
        <td>$email</td>
    </tr>
    <tr>
        <th>Phone Number: </th>
        <td>$phone</td>
    </tr>";

    // if the client select the delivery, calculate delivery time,
    // else, calculate the pickup time
    $type = $_GET['p_or_d'];
    $time = getTime($type);
    if ($type == "delivery") {
        $str .= "<tr>
            <th>Type: </th>
            <td>Delivery</td>
        </tr>";
    }
    </body>
    </html>

```



```

        </tr>
        <tr>
            <th>Address: </th>
            <td>$address</td>
        </tr>
        <tr>
            <th>Delivery Time: </th>
            <td>$time</td>
        </tr>";
    } else {
        $str .= "<tr>
            <th>Type: </th>
            <td>Pickup</td>
        </tr>
        <tr>
            <th>Pickup Time: </th>
            <td>$time</td>
        </tr>";
    }

    $str .= "</table>";

    //add the table header
    $str .= "<table border='0' cellpadding='4'>
        <tr>
            <th>Item Name</th>
            <th>Quantity</th>
            <th>Cost Each</th>
            <th>Total Cost</th>
        </tr>";

    $menuItems = getItem();

    // add the name, price, quantity, and the total cost of the items
    for ($i=0; $i< count($menuItems); $i++)
    {
        if (readQuantity($i) > 0){
            $name = $menuItems[$i]["Name"];
            $price = $menuItems[$i]["Price"];
            $pricef = number_format((float)$price, 2, '.', '');
            $quantity = readQuantity($i);
            $cost = $price * $quantity;
            $costf = number_format((float)$cost, 2, '.', '');

            $str .= "<tr><td>$name</td>";
            $str .= "<td>$quantity</td>";
            $str .= "<td> $ $pricef </td>";
            $str .= "<td>$costf</td></tr>";
        }
    }

    $str .="</table>";

    // add the subtotal, tax, and the total
    $subtotal .= $_GET['subtotal'];
    $tax .= $_GET['tax'];
    $total .= $_GET['total'];

```

```

$str .= "<table><tr><th>Subtotal:</th><td> $ $subtotal</td></tr>
      <tr><th>Mass tax 6.25%:</th><td> $ $tax</td></tr>
      <tr><th>Total:</th><td> $ $total</td></tr></table>";

//print the string
echo $str;

//mail to the client
mail($email, "Receipt", $str);

//the function that returns a menu of items including the names and the
prices
function.getItems(){
    //Establish connection info
    $server = "sql204.epizy.com";
    $userid = "epiz_27905924";
    $pw = "bMoFMy4qPKwwG";
    $db = "epiz_27905924_Jade_delight";

    //Create connection
    $conn = new mysqli($server, $userid, $pw);

    //Check connection
    if ($conn->connect_error){
        die("Connection failed:".$conn->connect_error);
    }

    //Select database
    $conn->select_db($db);

    //run a query
    $sql = "SELECT * FROM `Item&price`";
    $result = $conn->query($sql);

    //get result
    if ($result->num_rows>0){
        while ($row = $result->fetch_assoc()){
            $items[] = $row;
        }
    } else {
        echo "no results";
    }
    return $items;
}

// the function to read the quantity of the selected item
function readQuantity($i){
    $selectName = "quan".$i;
    $quantity = $_GET[$selectName];
    return $quantity;
}

// the function that calculate the delivery/pickup time
function getTime($type){
    if ($type = 'delivery'){
        $time = "<script language='javascript'>
                var d = new Date();

```

```

        d.setMinutes(d.getMinutes() + 30);
        document.write( d.getDate() + '/'
            + (d.getMonth()+1) + '/'
            + d.getFullYear() + '@'
            + pad2(d.getHours()) + ':'
            + pad2(d.getMinutes()) + ':'
            + pad2(d.getSeconds()));
        function pad2(number) {
            return (number < 10 ? '0' : '') + number
        }
    }
    </script>";
    return $time;
} else {
    $time = "<script language='javascript'>
        var d = new Date();
        d.setMinutes(d.getMinutes() + 15);
        document.write(d.getDate() + '/'
            + (d.getMonth()+1) + '/'
            + d.getFullYear() + '@'
            + pad2(d.getHours()) + ':'
            + pad2(d.getMinutes()) + ':'
            + pad2(d.getSeconds()));
        function pad2(number) {
            return (number < 10 ? '0' : '') + number
        }
    </script>";
    return $time;
}
}
?>
</body>
</html>

```

## style.css

```

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

*{
    font-family: "Gill Sans", "Gill Sans MT", "Myriad Pro", "Dejavu Sans
Condensed", Helvetica, Arial, "sans-serif";
}

#address{
    display:none;
}

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

body {
    width: 70%;

```

```
    background: #686868;
    border: 5px #000000 solid;
    margin: auto;
    padding: 1%;
}

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

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