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CS20 - Web Programming  
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Assignment 12: Jade Delight II

#### Online Links

[https://mattiad.sgedu.site/jade\\_delight2.php](https://mattiad.sgedu.site/jade_delight2.php)

#### Questions

1. For this assignment, I much prefer PHP than Javascript. Even though there was still quite a bit of Javascript (form validation, displaying costs, etc.) using PHP to pull data from a database, create a form, send an email, and populate another database was a lot more straightforward and efficient than if I used Javascript. The fact that PHP is server-side code allows for much more functionality than just Javascript executed by the client's browser.
2. I could have used PHP to enhance my midterm project by sending confirmation emails to clients who have booked an event space. I could have also used databases to store either the event spaces and their details or customer orders, and then queried these databases with PHP. Lastly, I could have implemented a Login system with PHP where users can make an account and see their prior purchases or the event spaces they have saved from a prior time.

jade\_delight2.php

```
<!DOCTYPE html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Jade Delight 2</title>
</head>

<body>
  <?php
    include 'db.php';
    include 'form.php';
    include 'header.php';

    $dbData = getDatabaseData();
    $form = buildForm($dbData);
    $header = buildHeader();

    echo $header;
    echo $form;
  ?>
</body>

<!-- ----- WHAT I ADDED ----- -->
<script src="./script.js"></script>
<link rel = "stylesheet" href = "./style.css" />
<!------- -->

</html>
```

db.php

<?php

```
function getDatabaseData(){
    // connection info
    $server = "localhost";
    $userid = "urugxmci3twje";
    $pw = "hdgqjsheldtx";
    $db = "dbsonq3stfmjsz";

    // making connection and validating
    $conn = new mysqli($server, $userid, $pw, $db);
    if($conn -> connect_error){
        die("Connection failed:" . $conn -> connect_error);
    }

    $conn -> select_db($db);

    // querying
    $tableInfoQuery = "SELECT * FROM Products";
    $tableInfoResults = $conn -> query($tableInfoQuery);

    if($tableInfoResults -> num_rows <= 0){
        echo "NO RESULTS";
    }

    // closing database connection
    $conn -> close();

    return $tableInfoResults;
}
```

```
function insertOrderIntoDatabase($fname, $lname, $phone, $quantities,
$p_or_d, $address, $time, $total){
    // connection info
    $server = "localhost";
    $userid = "urugxmci3twje";
    $pw = "hdgqjsheldtx";
    $db = "dbnna80dlya8n8";

    // making connection and validating
    $conn = new mysqli($server, $userid, $pw, $db);
    if($conn -> connect_error){
        die("Connection failed:" . $conn -> connect_error);
    }
}
```

```

    }

    $conn -> select_db($db);

    // querying
    $insertQuery = "INSERT INTO `Orders` (`First Name`, `Last Name`,
`Phone Number`, `Sweet and Sour Pork`, `Shrimp Lo Mein`, `Moo Shi Chicken`,
`Fried Rice`, `Chicken Chop Suey`, `Pickup/Delivery`, `Address`, `Time`,
`Total`) VALUES (";
    $insertQuery .= "'" . $fname . "',";
    $insertQuery .= "'" . $lname . "',";
    $insertQuery .= "'" . $phone . "',";
    $insertQuery .= "'" . $quantities[0] . "',";
    $insertQuery .= "'" . $quantities[1] . "',";
    $insertQuery .= "'" . $quantities[2] . "',";
    $insertQuery .= "'" . $quantities[3] . "',";
    $insertQuery .= "'" . $quantities[4] . "',";
    $insertQuery .= "'" . $p_or_d . "',";
    $insertQuery .= "'" . $address . "',";
    $insertQuery .= "'" . $time . "',";
    $insertQuery .= "'" . $total . "');";

    $conn -> query($insertQuery);

    // closing database connection
    $conn -> close();
}

```

```
?>
```

## form.php

```
<?php
function makeRow($name, $price, $count){
    $row = "<tr>";

    // making select cell
    $row .= '<td class="selectQuantity">
        <select name="quan" . $count . "" size="1">';
    for($i=0; $i<10; $i++){
        $row .= '<option>' . $i . '</option>';
    }
    $row .= '</select></td>';

    // making name cell
    $row .= '<td class="itemName">' . $name . '</td>';

    // making cost each cell
    $row .= '<td class="cost">$' . number_format(floatval($price), 2, '.',
    '') . '</td>';

    // making total cost cell
    $row .= '<td class="totalCost">$ <input type="text" name="cost" .
    $count . ""></td>';

    // closing tags
    $row .= '</tr>';

    return $row;
}

function buildForm($dbData){

    $form = '<form action = "formSubmit.php" method = "POST">';

    // top half of form
    $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>';

//bottom half of form
$form .= '<table cellpadding="3" border="0">
        <tbody>
            <tr>
                <th>Select Item</th>
                <th>Item Name</th>
                <th>Cost Each</th>
                <th>Total Cost</th>
            </tr>';

$count = 0;
while($row = $dbData -> fetch_assoc()){
    $form .= makeRow($row["Product"], $row["Cost"], $count);
    $count++;
}
$form .= '</tbody></table>';

$form .= '<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>';

$form .= '<input type = "submit" value = "Submit Order" />';

$form .= '<input name="time" style="display:none;" />';

$form .= '</form>';

```

```
        return $form;
    }
?>
```

## formSubmit.php

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>Jade Delight 2</title>
    <link rel = "stylesheet" href = "../style.css" />
  </head>

  <body>
    <?php
      include 'header.php';
      echo buildHeader();
    ?>

    <table cellpadding="3" border="0">
      <tbody>
        <tr>
          <th>Quantity Selected</th>
          <th>Item Name</th>
          <th>Cost Each</th>
          <th>Total Cost</th>
        </tr>

        <?php
          include 'db.php';

          $dbData = getDatabaseData();
          $count = 0;
          while($row = $dbData -> fetch_assoc()){
            $data = "<tr>";
            $data .= "<td>" . $_POST["quan" . $count] . "</td>";

            // quantity
            $data .= "<td>" . $row["Product"] . "</td>"; // item
            name
            $data .= "<td>$" .
            number_format(floatval($row["Cost"]), 2, '.', '') . "</td>"; // cost each
            if($_POST["cost" . $count] == "")
              $total = "0.00";
            else
              $total = $_POST["cost" . $count];
            $data .= "<td>$" . $total . "</td>"; // total cost
            $data .= "</tr>";
```



```

        echo $data;
        $count++;
    }
    ?>
</tbody>
</table>

<br>

<div>Subtotal: $<?php echo $_POST["subtotal"]?></div>
<div>Tax: $<?php echo $_POST["tax"]?></div>
<div>Total: $<?php echo $_POST["total"]?></div>

<br>

<div><?php if($_POST["p_or_d"] == "pickup"){echo "Pickup";}else{echo
"Delivery";}?> time: <?php echo $_POST["time"]?></div>

<?php
    // sending email
    $to = "odoghrykhd@gmail.com";
    $subject = "Order Details";
    $msg = "Thank you for your order!\n";
    $msg .= "The total for your order was: $" . $_POST["total"] .
".\n";

    if($_POST["p_or_d"] == "pickup")
        $msg .= "Please come pick up your order at " . $_POST["time"]
. ".\n";
    else
        $msg .= "Your order will be delivered to " . $_POST["street"]
. ", " . $_POST["city"] . " at " . $_POST["time"] . ".\n";
    $headers = "From: themattiadanese@gmail.com";

    mail($to, $subject, $msg, $headers);
?>

<?php
    // storing order in database
    $quantities = array($_POST["quan0"], $_POST["quan1"],
$_POST["quan2"], $_POST["quan3"], $_POST["quan4"]);

    $address = "NULL";

```

```
        if($_POST["p_or_d"] == "delivery")
            $address = $_POST["street"] . ", " . $_POST["city"];

        insertOrderIntoDatabase($_POST["fname"], $_POST["lname"],
$_POST["phone"], $quantities, $_POST["p_or_d"], $address, $_POST["time"],
floatval($_POST["total"]));
    ?>
</body>
</html>
```

header.php

```
<?php
    function buildHeader(){
        return "<header><h1>Jade Delight 2</h1></header>";
    }
?>
```

script.js

```
// Defining menuItems
function MenuItem(name, cost)
{
    this.name = name;
    this.cost=cost;
}

var menuItems = [];
var names = document.getElementsByClassName("itemName");
var prices = document.getElementsByClassName("cost");

for(i=0; i < names.length; i++){
    menuItems.push(new MenuItem(names[i].innerHTML,
prices[i].innerHTML.substring(1)));
}

// 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 false;
}

//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 false;
    }
}

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

// no issues, form will submit
// alert("Thank you for your order!");

```

```
        document.getElementsByName("time")[0].value =  
new_time.toLocaleString('en-US', { hour: 'numeric', minute: 'numeric',  
hour12: true }));
```

```
        return true;  
    }
```

```
    let form = document.getElementsByTagName("form")[0];  
    form.onsubmit = function(){return validateSubmit();};
```

style.css

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

.totalSection input{
    position: fixed;
    left: 127px;
}
body{
    width: 100%;
    height: 100%;
    background-color: lightgray;
    overflow-x: hidden;
    padding-top: 10vh;
}

header{
    width: 100%;
    height: 10vh;
    background-color: black;
    display: table;
    border: none;
    position: absolute;
    top: 0;
    left: 0;
}

header h1{
    color: white;
    width: 50%;
    display: table-cell;
    text-align: center;
    vertical-align: middle;
    text-decoration: underline;
}

@media only screen and (max-width: 535px) {
    input{
        width:100px;
    }
}
```