

Esha Attiq

CIS 430

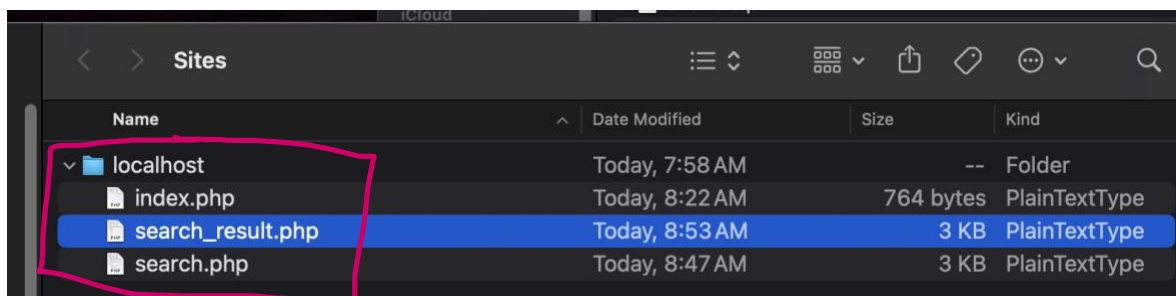
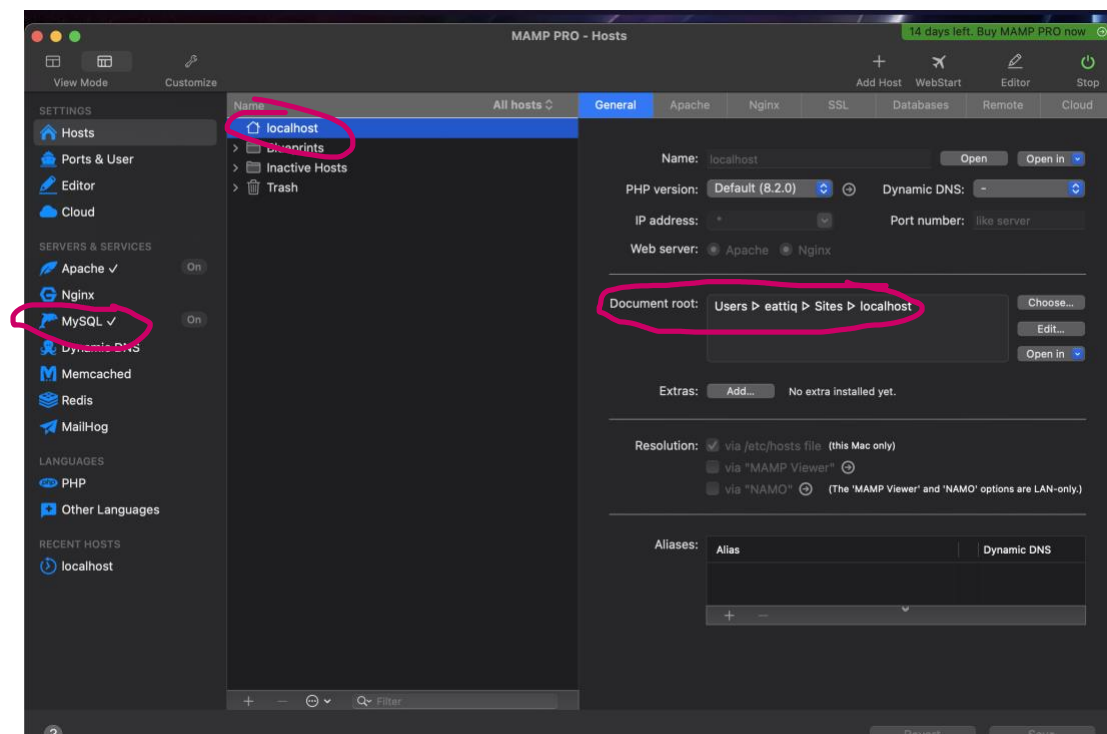
### LAB 7: (EXTRA CREDIT)

## Building a Web Application Using PHP and MySQL

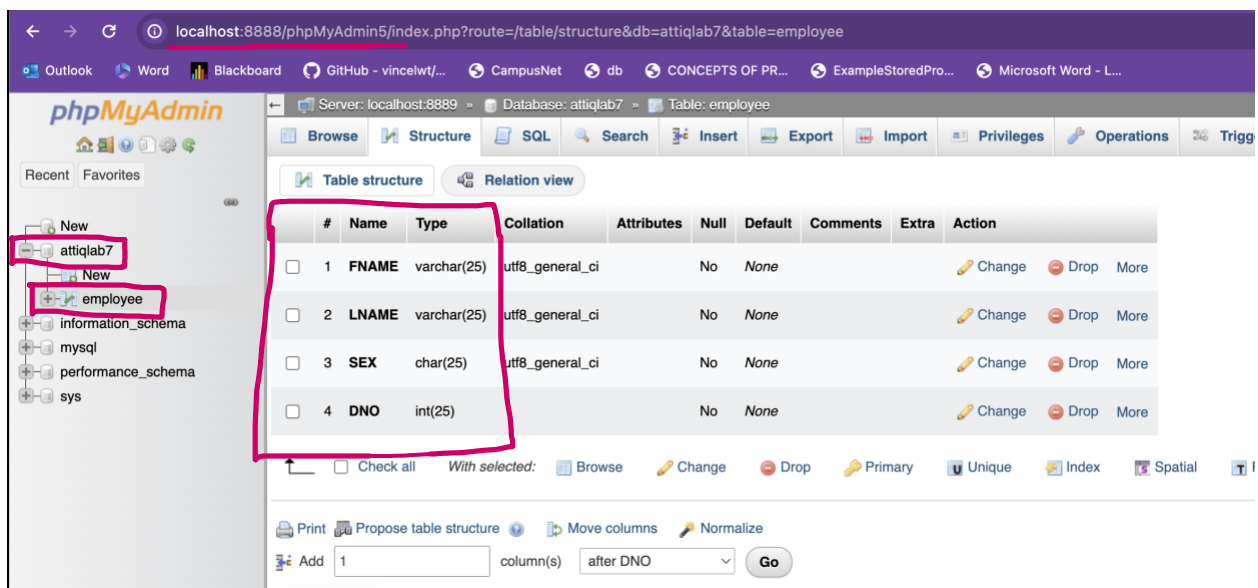
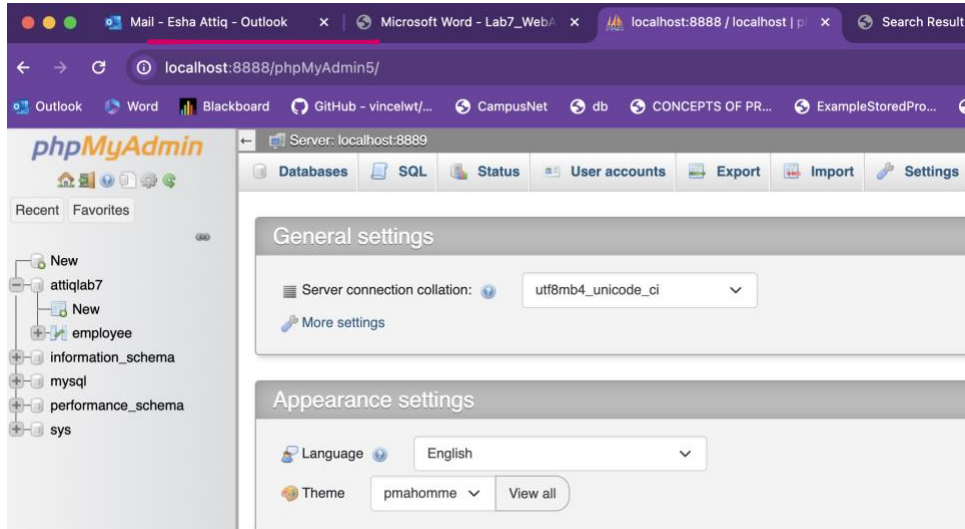
*I will be going through the steps of what I did.*

1) I downloaded MAMP PRO. Luckily, It's a 14-day free trial. I use a MacBook, therefore, MAMP is the Mac version of the WAMP, which is specifically for Windows.

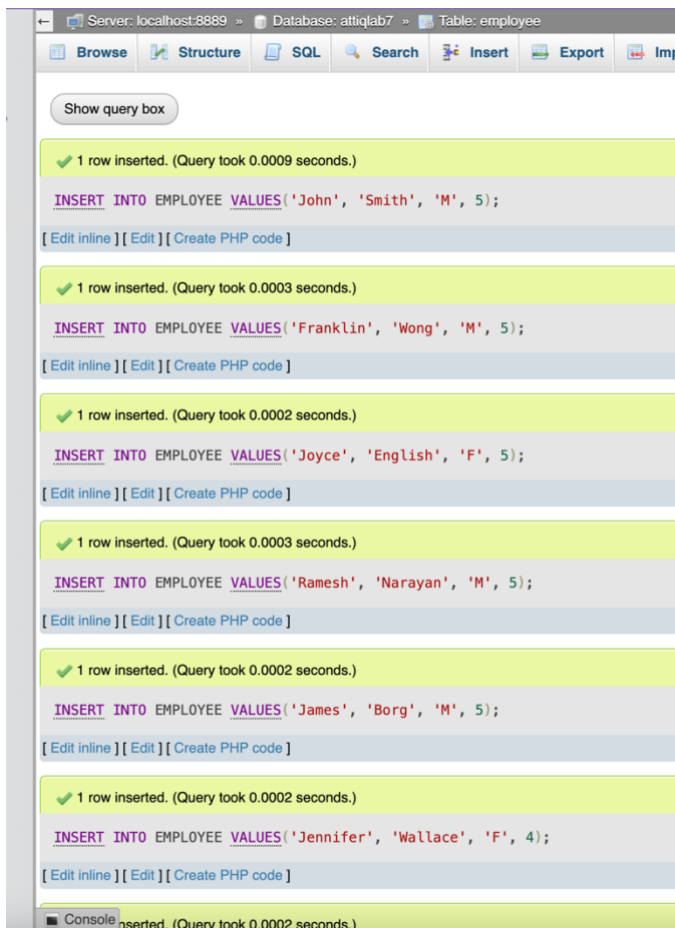
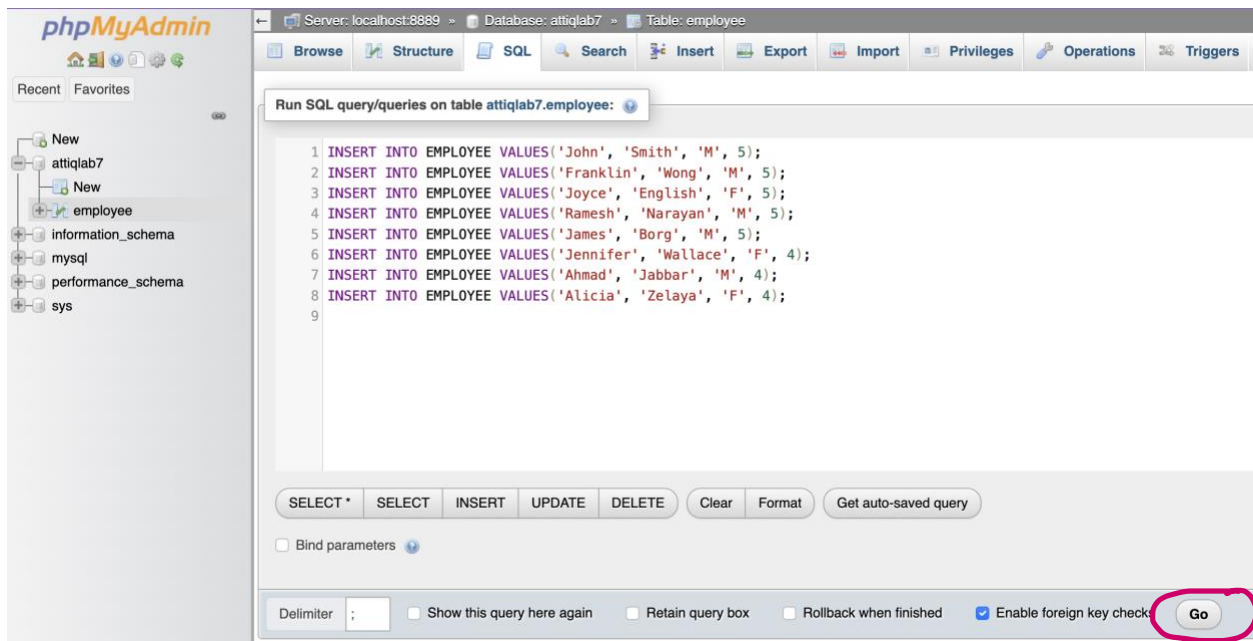
2) Next, I made sure my document root is my localhost. This includes the .php files. I didn't have to specify to make sure I had MySQL or Apache, or PHP. To the left, you can see it's automatically included (and checkmarked).



3) Then I went into mySQL (which is inside localhost:8888/phpMyAdmin5) to create a database named **attiqlab7** with a table named **employee**. I added FNAME, LNAME, SEX, and DNO with their specific types due to simplicity and the example in the instructions.

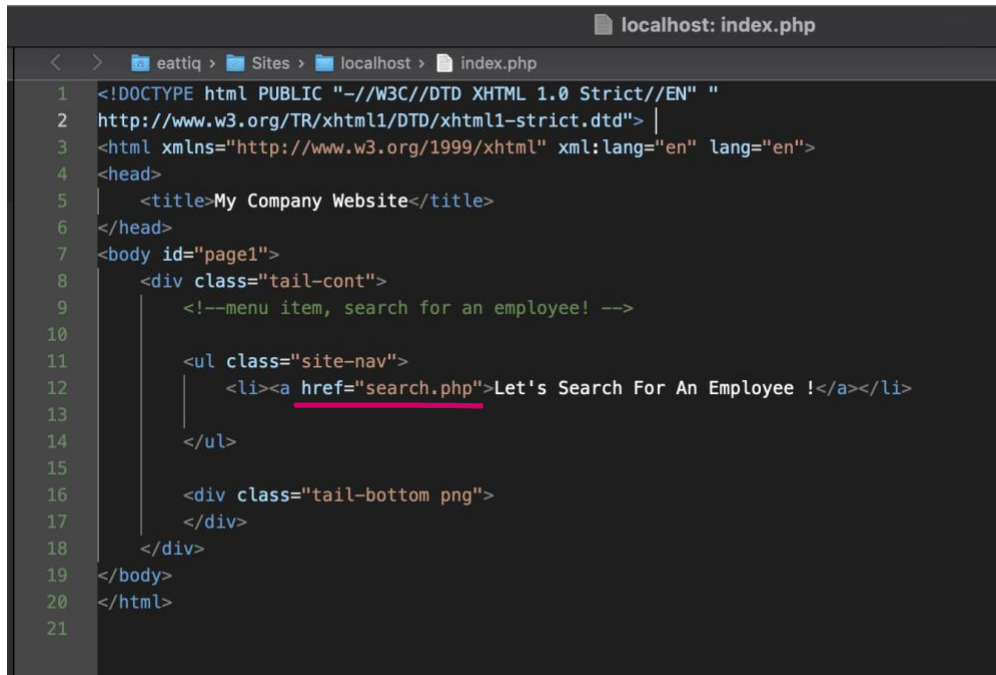


4) Inserted the values of each employee in the SQL tab and clicked GO.



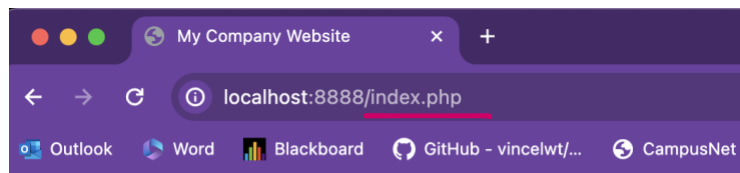
6) Now after I've finished everything related to MySQL, I went into the .php files. So, I created index.php (based off the example), a search.php, and a search\_result.php. Here are screenshots of each WITH comments.

index.php



```
localhost: index.php
<
>
eattiq > Sites > localhost > index.php
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "
2 http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"> |
3 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
4 <head>
5     <title>My Company Website</title>
6 </head>
7 <body id="page1">
8     <div class="tail-cont">
9         <!--menu item, search for an employee! -->
10
11         <ul class="site-nav">
12             <li><a href="search.php">Let's Search For An Employee !</a></li>
13
14         </ul>
15
16         <div class="tail-bottom png">
17             </div>
18     </div>
19 </body>
20 </html>
21
```

Going to index.php



- [Let's Search For An Employee !](#)

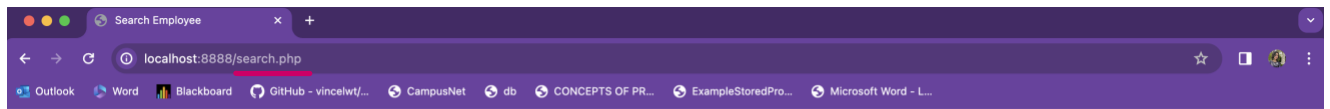
## search.php

```
localhost: search.php

search.php
< > eattiq > Sites > localhost > search.php

1  <?php
2  $serverName = "localhost";
3  $username = "root";
4  $password = "rootpw";
5  $database = "attiqlab7";
6
7  $conn = mysqli_connect($serverName, $username, $password, $database);
8  session_start();
9
10 // variable for when employee isnt found
11 $notFoundMessage = "";
12
13 // check if user has submitted a request
14 if ($_SERVER["REQUEST_METHOD"] == "POST") {
15     // get lname from request
16     $lastName = mysqli_real_escape_string($conn, $_POST['lastName']);
17
18     // searches my database
19     $query = "SELECT * FROM Employee WHERE LNAME='$lastName'";
20     $result = mysqli_query($conn, $query);
21
22     // check results found
23     if (mysqli_num_rows($result) > 0) {
24         // if found
25         header("Location: search_result.php?lastName=" . urlencode($lastName));
26         exit();
27     } else {
28         // if not found
29         $notFoundMessage = "Employee not found. Please try again.";
30     }
31 }
32 ?>
33 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
34 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
35 <head>
36 <style>
37     body {
38         font-family: Verdana, sans-serif;
39     }
40 </style>
41 <title>Search Employee</title>
42 </head>
43 <body>
44     <div class="tail-cont">
45         <div class="indent">
46             <div class="indent1">
47                 <center>
48                     <h2>Employee Search</h2>
49                     <form action="" method="post"> <!--prints out prompt to user & grabs it -->
50                         <label for="lastName">Please enter a last name</label>
51                         <br><br>
52                         <input type="text" id="lastName" name="lastName" required>
53                         <input type="submit" value="Search">
54                         <input type="reset" value="Reset">
55                     </form>
56                     <!-- not found text appears under the search box-->
57                     <?php if (!empty($notFoundMessage)) : ?>
58                         <p style="color: red;"><?php echo $notFoundMessage; ?></p>
59                         <br> <br>
60                     <?php endif; ?>
61                 </center>
62             </div>
63         </div>
64     </div>
65 </body>
66 </html>
67
```

## Example of using search.php



Entering an invalid last name & the output when I click search

### Employee Search

Please enter a last name

### Employee Search

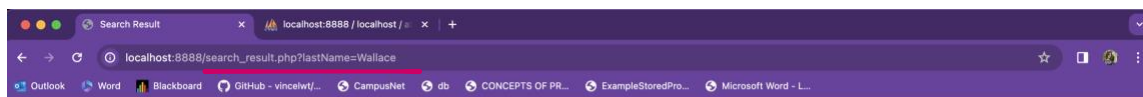
Please enter a last name

Employee not found. Please try again.

Entering a valid last name & the output when I click search

### Employee Search

Please enter a last name



Search Results:			
First Name	Last Name	Sex	Dno
Jennifer	Wallace	F	4

[Search again !](#)

(The “search again” button leads back to the search page)

The reset button works too.

## Employee Search

Please enter a last name

## Employee Search

Please enter a last name

search\_result.php

```
search_result.php
1 <?php
2 $servername = "localhost";
3 $username = "root";
4 $password = "rootpw";
5 $database = "attiqlab7"; //my database name
6
7 // this makes the connection & makes sure it actually works. otherwise itll fail
8 $conn = mysqli_connect($servername, $username, $password, $database);
9
10 // Check connection
11 if (!$conn) {
12     die("Connection failed: " . mysqli_connect_error());
13 }
14
15 session_start();
16
17 // this gets lname
18 $lastName = mysqli_real_escape_string($conn, $_GET['lastName']);
19
20 // searches in db
21 $query = "SELECT * FROM Employee WHERE LNAME='$lastName'";
22 $result = mysqli_query($conn, $query);
23 ?>
24 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
25 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
26 <!-- i added some visuals to make it pretty (: -->
27 <head>
28     <title>Search Result</title>
29     <style>
30         body {
31             font-family: Verdana, sans-serif;
32             background-color: #f4f4f4;
33             margin: 0;
34             padding: 0;
35             display: flex;
36             justify-content: center;
37             align-items: center;
38             height: 100vh;
39         }
40
41         .tail-cont {
42             background-color: #fff;
43             border-radius: 10px;
44             box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
45             padding: 20px;
46             max-width: 600px;
47             width: 100%;
48         }
49     </style>
```

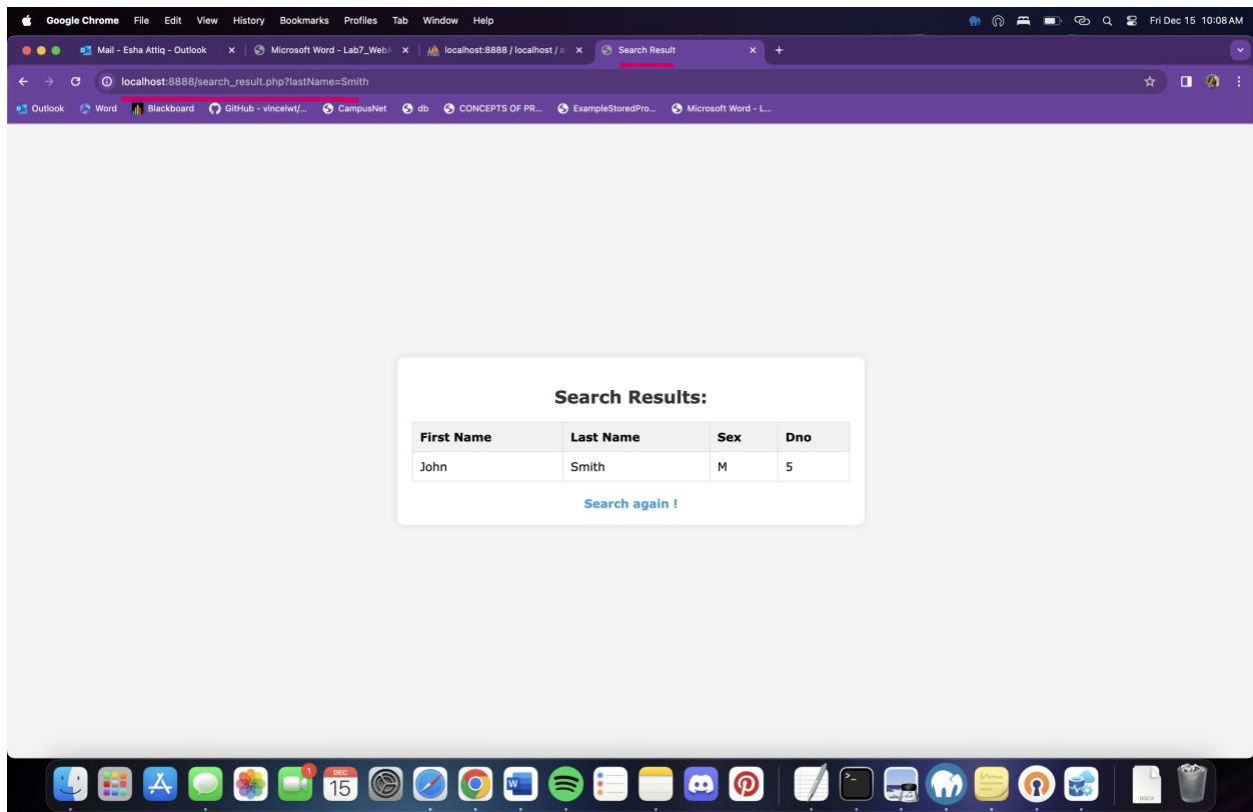


```
< > eattiq > Sites > localhost > search_result.php
50     h2 {
51     |     color: #333;
52     | }
53
54     table {
55     |     width: 100%;
56     |     border-collapse: collapse;
57     |     margin-top: 20px;
58     | }
59
60     table, th, td {
61     |     border: 1px solid #ddd;
62     | }
63
64     th, td {
65     |     padding: 10px;
66     |     text-align: left;
67     | }
68
69     th {
70     |     background-color: #f2f2f2;
71     | }
72
73     a {
74     |     display: block;
75     |     text-align: center;
76     |     margin-top: 20px;
77     |     text-decoration: none;
78     |     color: #3498db;
79     |     font-weight: bold;
80     | }
```

```
81     </style>
82 </head>
83 <body>
84     <div class="tail-cont">
85     <div class="indent">
86     <div class="indent1">
87     <center>
88         <?php
89         // Display search results
90         if ($result) {
91             echo "<h2>Search Results:</h2>";
92             echo "<table>";
93             echo "<tr><th>First Name</th><th>Last Name</th><th>Sex</th><th>Dno</th></tr>";
94
95             while ($row = mysqli_fetch_assoc($result)) {
96                 echo "<tr>";
97                 echo "<td>" . $row['FNAME'] . "</td>";
98                 echo "<td>" . $row['LNAME'] . "</td>";
99                 echo "<td>" . $row['SEX'] . "</td>";
100                echo "<td>" . $row['DNO'] . "</td>";
101                echo "</tr>";
102            }
103
104            echo "</table>";
105        } else {
106            echo "<h2>No results found</h2>";
107        }
108        ?>
109
110        <a href="search.php">Search again !</a> <!-- goes back to search page -->
111    </center>
112    </div>
113    </div>
114    </div>
115 </body>
116 </html>
117
118 <?php
119 // closes db connection
120 mysqli_close($conn);
121 ?>
122
```



## Another example screenshot



[I'll also send my .php files with this report in case it is needed.]