

## Lab 5

### Task 1

- i. You are given the following html file.

```
1 <!DOCTYPE html>
2 <html>
3 <style>
4 table,th,td {
5     border : 1px solid black;
6     border-collapse: collapse;
7 }
8 th,td {
9     padding: 5px;
10 }
11 </style>
12 <body>
13
14 <h2>The XMLHttpRequest Object</h2>
15
16 <p id="demo2"></p>
17 <script>
18 function getProductLine(){
19     var xhttp;
20
21     xhttp = new XMLHttpRequest();
22     xhttp.onreadystatechange = function() {
23         if (this.readyState == 4 && this.status == 200) {
24             document.getElementById("demo2").innerHTML = this.responseText;
25         }
26     };
27     xhttp.open("GET", "readproductline.php", true);
28     xhttp.send();
29 }
30 getProductLine();
31 </script>
32 <br>
33 <div id="txtHint">Customer info will be listed here...</div>
34
35 <script>
36 function showCustomer(str) {
37     var xhttp;
38     if (str == "") {
39         document.getElementById("txtHint").innerHTML = "";
40         return;
41     }
42     xhttp = new XMLHttpRequest();
43     xhttp.onreadystatechange = function() {
44         if (this.readyState == 4 && this.status == 200) {
45             document.getElementById("txtHint").innerHTML = this.responseText;
46         }
47     };
48     xhttp.open("GET", "getproductlist.php?q="+str, true);
49     xhttp.send();
50 }
51
52
53 </script>
54 </body>
55 </html>
```

ii. And part of php file that returned the data according to the user selection

```
$parameter = $_GET['q'];
$sql = "SELECT * FROM products where productLine = '".$parameter."'";
$result = $conn->query($sql);
echo "<table>";

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>".$row["productCode"]."</td><td>".$row["productName"]."</td><td>".$row["productLine"]."</td><td>".$row["productScale"]."</td><td>".$row["productVendor"]
        </td><td>".$row["productDescription"]."</td><td>".$row["quantityInStock"]."</td><td>".$row["buyPrice"]
        ."</td></tr>";
    }
    echo "</table>";
} else {
    echo "0 results";
}
```

iii. Another supporting file is a php that returned the list for customer choice

```
$sql = "SELECT productLine FROM productlines";
$result = $conn->query($sql);
echo "<form>";
echo "<select name='customers' onchange='showCustomer(this.value)'>";
echo "<option value=''>Select a customer:</option>";

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {

        echo "<option value='".$row["productLine"]."'>".$row["productLine"]."</option>";
    }
    echo "</select></form>";
} else {
    echo "0 results";
}
$conn->close();
```

All those three (3) files is hosted at <http://skimtech.my>

Evaluate the given file, and answer the questions:

1. What is the name of first php file?
2. What is the name of second php file?
3. Recognised the item in the select option.
4. What is returned by the second php file.
5. Can you examine how both file is called from html file?

## Task 2

You are given the following php file that returned the data as above second php file. But this time it's returned in a form of JSON.

You can play around the php file by the following URL

[https://skimtech.my/getProductByChoice.php?q= <replace with one item you recognised in question \(3\) above>.](https://skimtech.my/getProductByChoice.php?q= <replace with one item you recognised in question (3) above>.)

1. How many records are there belonging to motorcycles type?
2. What are attributes in each of the record?

Write your own html file, which have the select option as item in question 3 above and make a XMLHttpRequest called to getProductByChoice and pass the selected options as a parameter.

1. Display all the returned JSON data into a table with the header
2. Display the Data one by one according to click function

Here is part of useful code of getProductByChoice.php,

```
$parameter = $_GET['q'];
$sql = "SELECT * FROM products where productLine = '".$parameter."'";
$result = $conn->query($sql);

// Initialize an empty array to hold the data
$data = array();

// Insert each row into the $data array
if ($result->num_rows > 0) {
    foreach ($result as $row) {
        $data[] = $row;
    }
}

// Encode the $data array into a JSON string
$json = json_encode($data);

// Set the appropriate headers
header('Content-Type: application/json');

// Output the JSON string
echo $json;

$conn->close();
?>
```

