FRONT-END PROGRAMMING   CSM3103

UNIVERSITI MALAYSIA TERENGGANU

LAB MODULE 5

NAME   : ILHAM HANINA MADIHA BINTI OTHMAN

MATRIC NO : S63762

PROGRAMME: BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)

LECTURER   : DR RABIEI B MAMAT

GITHUB LINK : https://github.com/ilhamhanina/Code-Lab-CSM3103-S63762.git

Task 1

Output for task 1:-

The XMLHttpRequest Object

Classic Cars ⌄

S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	Classic Metal Creations	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis	7305	98.58
S10_4757	1972 Alfa Romeo GTA	Classic Cars	1:10	Motor City Art Classics	Features include: Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	3252	85.68
S10_4962	1962 LanciA Delta 16V	Classic Cars	1:10	Second Gear Diecast	Features include: Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	6791	103.42
S12_1099	1968 Ford Mustang	Classic Cars	1:12	Autoart Studio Design	Hood, doors and trunk all open to reveal highly detailed interior features. Steering wheel actually turns the front wheels. Color dark green.	68	95.34
S12_1108	2001 Ferrari Enzo	Classic Cars	1:12	Second Gear Diecast	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis	3619	95.59
S12_3148	1969 Corvair Monza	Classic Cars	1:18	Welly Diecast Productions	1:18 scale die-cast about 10" long doors open, hood open, trunk open and wheels roll	6906	89.14
S12_3380	1968 Dodge Charger	Classic Cars	1:12	Welly Diecast Productions	1:12 scale model of a 1968 Dodge Charger. Hood, doors and trunk all open to reveal highly detailed interior features. Steering wheel actually turns the front wheels. Color black.	9123	75.16
S12_3891	1969 Ford Falcon	Classic Cars	1:12	Second Gear Diecast	Turnable front wheels; steering function; detailed interior; detailed engine; opening hood; opening trunk; opening doors; and detailed chassis.	1049	83.05
S12_3990	1970 Plymouth Hemi Cuda	Classic Cars	1:12	Studio M Art Models	Very detailed 1970 Plymouth Cuda model in 1:12 scale. The Cuda is generally accepted as one of the fastest original muscle cars from the 1970s. This model is a reproduction of one of the orginal 652 cars built in 1970. Red color.	5663	31.92
S12_4675	1969 Dodge Charger	Classic Cars	1:12	Welly Diecast Productions	Detailed model of the 1969 Dodge Charger. This model includes finely detailed interior and exterior features. Painted in red and white.	7323	58.73
S18_1129	1993 Mazda RX-7	Classic Cars	1:18	Highway 66 Mini Classics	This model features, opening hood, opening doors, detailed engine, rear spoiler, opening trunk, working steering, tuned wackrew, baked enamel finish. Color red.	3975	83.51
S18_1589	1965 Aston Martin DB5	Classic Cars	1:18	Classic Metal Creations	Die-cast model of the silver 1965 Aston Martin DB5 in silver. This model includes full wire wheels and doors that open with fully detailed passenger compartment. In 1:18 scale, this model measures approximately 10 inches/20 cm long.	9042	65.96
S18_1889	1948 Porsche 356-A Roadster	Classic Cars	1:18	Gearbox Collectibles	This precision die-cast replica features opening doors, superb detail and craftsmanship, working steering system, opening forward compartment, opening rear trunk with removable spare, 4 wheel independent spring suspension as well as factory baked enamel finish.	8826	53.90

Codes:-

```
1    <!DOCTYPE html>
2  ⌄ <html lang="en">
3
4    <head>
5        <meta charset="UTF-8">
6        <meta http-equiv="X-UA-Compatible" content="IE=edge">
7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
8        <title>Task1</title>
9  ⌄     <style>
10           table,
11           th,
12 ⌄         td {
13               border: 1px solid ☐black;
14               border-collapse: collapse;
15           }
16
17           th,
18 ⌄         td {
19               padding: 5px;
20           }
21       </style>
22
```

```html
23  <body>
24      <h2>The XMLHttpRequest Object</h2>
25      <p id="demo2"></p>
26      <script>
27          function getProductLine() {
28              var xhttp;
29              xhttp = new XMLHttpRequest(); xhttp.onreadystatechange = function () {
30                  if (this.readyState == 4 && this.status == 200) {
31                      document.getElementById("demo2").innerHTML = this.responseText;
32                  }
33              };
34              xhttp.open("GET", "https://skimtech.my/readproductline.php", true);
35              xhttp.send();
36          }
37          getProductLine(); </script>
38      <br>
39      <div id="txtHint">Customer info will be listed here...</div>
40      <script>
41          function showCustomer(str) {
42              var xhttp;
43              if (str == "") {
44                  document.getElementById("txtHint").innerHTML = "";
45                  return;
46              }
47              xhttp = new XMLHttpRequest();
48              xhttp.onreadystatechange = function () {
49                  if (this.readyState == 4 && this.status == 200) {
50                      document.getElementById("txtHint").innerHTML = this.responseText;
51                  }
52              };
53              xhttp.open("GET", "https://skimtech.my/getproductlist.php?q=" + str, true);
54              xhttp.send();
55
56          }
57      </script>
58  </body>

60  </html>
```

Evaluate the given file, and answer the questions:

1. What is the name of first php file?

 -The name of the first PHP file is readproductline.php.

2. What is the name of second php file?

- The name of the second PHP file is getproductlist.php.

3. Recognised the item in the select option.

- The code recognizes each item in the select options as a product line. It retrieves the product lines from the productlines table in the database and generates <option> tags with the product line values.

4. What is returned by the second php file.

- The second PHP file returns a table containing product information based on the selected product line. It retrieves the products from the database that match the selected product line and generates <tr> and <td> tags to display the product details within the table.

5. Can you examine how both file is called from html file?

-In the HTML file, the first PHP file (readproductline.php) is called through an AJAX request using the XMLHttpRequest object. The function getProductline() is defined and invoked in the <script> section, which sends an asynchronous GET request to the readproductline.php file and displays the response in the <p> element with the id demo2

Task 2

Output for task2:-

Codes for task 2:-

```
1    <!DOCTYPE html>
2    <html lang="en">
3      <head>
4        <meta charset="UTF-8" />
5        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7        <title>JSON data displaying</title>
8        <style>
9          div {
10           margin: 20px;
11         }
12         table {
13           border-collapse: collapse;
14         }
15
16         th,
17         td {
18           border: 1px solid □black;
19           padding: 8px;
20         }
21       </style>
22     </head>
```

```html
<body>
  <h3>select an item</h3>
  <p id="demo2"></p>

  <script>
    function getProductLine() {
      var xhttp;
      xhttp = new XMLHttpRequest();
      xhttp.onreadystatechange = function () {
        if (this.readyState == 4 && this.status == 200) {
          document.getElementById("demo2").innerHTML = this.responseText;
        }
      };
      xhttp.open("GET", "https://skimtech.my/readproductline.php", true);
      xhttp.send();
    }
    getProductLine();
```

```javascript
    function showCustomer(str) {
      var xhttp;
      if (str == "") {
        document.getElementById("txtHint").innerHTML = "";
        return;
      }
      xhttp = new XMLHttpRequest();
      xhttp.onreadystatechange = function () {
        if (this.readyState == 4 && this.status == 200) {
          // get the json data as string
          var jsonString = this.responseText;
          // convert it to json type
          var jsonArray = JSON.parse(jsonString);
          // display the number in that object. E.g. motorcycles
          document.getElementById("numberOfObject").innerHTML =
            "Number of " + str + " Objects: " + jsonArray.length;
          // display the attributes
          document.getElementById("attributes").innerHTML =
            "Attributes: <b>" + (Object.keys(jsonArray[0]) + "</b>");
          //initialization
          displayTable.innerHTML = "";
          displayTable = document.getElementById("displayTable");
          const table = document.createElement("table");
          const thead = document.createElement("thead");
          const tbody = document.createElement("tbody");

          // displaying the thead (Attributes)
          Object.keys(jsonArray[0]).forEach((key) => {
            const th = document.createElement("th");
            console.log(key);
            th.textContent = key;
            thead.appendChild(th);
          });
          table.appendChild(thead);
```

```
76
77              // displaying the tbody(the values of the keys(Attributes))
78 ∨          jsonArray.forEach(function (record) {
79            var row = document.createElement("tr");
80 ∨          Object.keys(record).forEach(function (key) {
81              var cell = document.createElement("td");
82              cell.textContent = record[key];
83              row.appendChild(cell);
84            });
85            tbody.appendChild(row);
86          });

88          table.appendChild(tbody);
89          displayTable.appendChild(table);
90        }
91      };
92 ∨    xhttp.open(
93        "GET",
94        "https://skimtech.my/getProductByChoice.php?q=" + str,
95        true
96      );
97      xhttp.send();
98    }
99    </script>
100   <div id="numberOfObject">Customer info will be listed here...</div>
101   <div id="attributes"></div>
102   <div id="displayTable"></div>
103  </body>
104 </html>
```

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