

UNIVERSITY MALAYSIA TERENGGANU FACULTY OF OCEAN ENGINEERING TECHNOLOGY & INFORMATICS

[CSM3103] FRONT-END PROGRAMMING

LAB REPORT

[Lab 5]

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[BACHELOR OF SCIENCE COMPUTER(MOBILE COMPUTING)]

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Task 1

- 1. What is the name of first php file? readproductline.php
- 2. What is the name of second php file? getproductlist.php
- 3. Recognised the item in the select option.

```
<form><select name='customers' onchange='showCustomer(this.value)'> <option value=''>Select a
customer:</option><option value='Classic Cars'>Classic Cars</option><option
value='Motorcycles'>Motorcycles</option><option value='Planes'>Planes</option><option
value='Ships'>Ships</option><option value='Trains'>Trains</option><option value='Trucks and
Buses'>Trucks and Buses</option><option value='Vintage Cars'>Vintage Cars</option></select></form>
```

Classic Cars, Motorcycles, Planes, Ships, Trains, Trucks and Buses, Vintage Cars.

- 4. What is returned by the second php file. Return select option.
- 5. Can you examine how both file is called from html file? Using XMLHttpRequest object created by JavaScript.

Source code (index.html)

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Task1</title>
    <style>
        table,
        th,
        td {
            border: 1px solid □black;
            border-collapse: collapse;
        th,
        td {
            padding: 5px;
    </style>
```

Output: (for planes)

← C (0 127.0.0.15500/Task1/index.html										
The XMLHttpRequest Object										
(Planes ▼										
S18_1662	1980s Black Hawk Helicopter	Planes	1:18	Red Start Diecast	1:18 scale replica of actual Army's UH-60L BLACK HAWK Helicopter. 100% hand-assembled. Features rotating rotor blades, propeller blades and rubber wheels.	5330	77.27			
S18_2581	P-51-D Mustang	Planes	1:72	Gearbox Collectibles	Has retractable wheels and comes with a stand	992	49.00			
S24_1785	1928 British Royal Navy Airplane	Planes	1:24	Classic Metal Creations	Official logos and insignias	3627	66.74			
S24_2841	1900s Vintage Bi-Plane	Planes	1:24	Autoart Studio Design	Hand crafted diecast-like metal bi-plane is re-created in about 1:24 scale of antique pioneer airplane. All hand-assembled with many different parts. Hand-painted in classic yellow and features correct markings of original airplane.	5942	34.25			
S24_3949	Corsair F4U (Bird Cage)	Planes	1:24	Second Gear Diecast	Has retractable wheels and comes with a stand. Official logos and insignias.	6812	29.34			
S24_4278	1900s Vintage Tri- Plane	Planes	1:24	Unimax Art Galleries	Hand crafted diecast-like metal Triplane is Re-created in about 1:24 scale of antique pioneer airplane. This antique style metal triplane is all hand-assembled with many different parts.	2756	36.23			
S700_1691	American Airlines: B767-300	Planes	1:700	Min Lin Diecast	Exact replia with official logos and insignias and retractable wheels	5841	51.15			
S700_2466	America West Airlines B757-200	Planes	1:700	Motor City Art Classics	Official logos and insignias. Working steering system. Rotating jet engines	9653	68.80			
S700_2834	ATA: B757-300	Planes	1:700	Highway 66 Mini Classics	Exact replia with official logos and insignias and retractable wheels	7106	59.33			
S700_3167	F/A 18 Hornet 1/72	Planes	1:72	Motor City Art Classics	10" Wingspan with retractable landing gears.Comes with pilot	551	54.40			
S700_4002	American Airlines: MD-11S	Planes	1:700	Second Gear Diecast	Polished finish. Exact replia with official logos and insignias and retractable wheels	8820	36.27			
S72_1253	Boeing X-32A JSF	Planes	1:72	Motor City Art Classics	10" Wingspan with retractable landing gears. Comes with pilot	4857	32.77			

Task 2

1. How many records are there belonging to motorcycles type? Answer: 13 records.

```
{
    "productCode": "S10_1678",
    "productHame": "1969 Harley Davidson Ultimate Chopper",
    "productLine": "Motorcycles",
    "productScale": "1:10",
    "productDescription": "This replica features working kickstand, front suspension,
    "quantityInStock": "7933",
    "buyPrice": "48.81",
    "mSRP": "95.70"
},

{
    "productCode": "S10_2016",
    "productLine": "Motorcycles",
    "productLine": "Motorcycles",
    "productScale": "1:10",
    "productScale": "1:10",
    "productVendor": "Highway 66 Mini Classics",
    "productScale": "66.25",
    "buyPrice": "68.99",
    "MSRP": "118.94"
},

{
    "productCode": "S10_4698",
    "productCode": "S10_4698",
    "productScale": "1:10",
    "productLine": "Motorcycles",
    "productScale": "1:10",
    "productScale": "
```

```
"productCode": "$12_2823",
    "productLame": "2002 Suzuki XREO",
    "productLine": "Motorcycles",
    "productCosale": "1:12",
    "productDescale": "1:12",
    "productDescription": "Official logos and insignias, saddle bags located on side of motorcycle, detailed engine, working steeri "quantifyInstock": "9997",
    "buyPrice": "66.27",
    "MSRP": "150.62"

},

{
    "productCode": "$18_2625",
    "productLame": "Motorcycles",
    "productLame": "Motorcycles",
    "productScale": "1:18",
    "productDescription": "Intricately detailed with chrome accents and trim, official die-struck logos and baked enamel finish.",
    "quantifyInstock": "4357",
    "buyPrice": "24.23",
    "MSRP": "60.57"

},

{
    "productCode": "$18_3782",
    "productCode": "$18_3782",
    "productCode": "Motorcycles",
    "productLine": "Motorcycles",
    "productCode": "Studio M Art Models",
    "productVendor": "32.95",
    "buyPrice": "32.95",
    "WSRP": "62.17"

},
```

```
"productCode": "S24_1578",
  "productName": "1997 BMW R 1100 S",
  "productLine": "Motorcycles",
   'productScale": "1:24",
  "productVendor": "Autoart Studio Design",
  "productDescription": "Detailed scale replica with working suspension
  "quantityInStock": "7003",
  "buyPrice": "60.86",
"MSRP": "112.70"
1,
 "productCode": "S24_2000",
"productName": "1960 BSA Gold Star DBD34",
"productLine": "Motorcycles",
  "productScale": "1:24",
  "productVendor": "Highway 66 Mini Classics",
"productDescription": "Detailed scale replica with working suspension
  "quantityInStock": "15",
  "buyPrice": "37.32",
  "MSRP": "76.17"
  "productCode": "S24_2360",
  "productName": "1982 Ducati 900 Monster",
"productLine": "Motorcycles",
   "productScale": "1:24",
  "product∀endor": "Highway 66 Mini Classics",
  "productDescription": "Features two-tone paint with chrome accents, su
  "quantityInStock": "6840",
  "buyPrice": "47.10",
  "MSRP": "69.26"
```

```
"productCode": "S32_1374",
"productName": "1997 BMW F650 ST",
"productLine": "Motorcycles",
"productScale": "1:32",
 "productVendor": "Exoto Designs",
"productDescription": "Features official die-struck logos and baked enamel finish. Comes with stand.",
"quantityInStock": "178",
"buyPrice": "66.92",
"MSRP": "99.89"
"productCode": "S32_2206",
"productName": "1982 Ducati 996 R",
"productLine": "Motorcycles",
"productScale": "1:32",
"productVendor": "Gearbox Collectibles",
"productDescription": "Features rotating wheels , working kick stand. Comes with stand.",
"quantityInStock": "9241",
"buyPrice": "24.14",
"MSRP": "40.23"
"productCode": "S32 4485",
"productName": "1974 Ducati 350 Mk3 Desmo",
"productLine": "Motorcycles",
"productVendor": "1:32",
"productVendor": "Second Gear Diecast",
"productDescription": "This model features two-tone paint with chrome accents, superior die-cast detail
"quantityInStock": "3341",
"buyPrice": "56.13",
"MSRP": "102.05"
```

```
{
    "productCode": "S50_4713",
    "productName": "2002 Yamaha YZR M1",
    "productLine": "Motorcycles",
    "productScale": "1:50",
    "productVendor": "Autoart Studio Design",
    "productDescription": "Features rotating wheels , working kick
    "quantityInStock": "600",
    "buyPrice": "34.17",
    "MSRP": "81.36"
}
```

2. What are attributes in each of the record? productCode, productName, productLine, productScale, productVendor, productDescription, quantityInStrock, buyPrice, MSRP.

Source code (index.html)

```
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) {
     var jsonString = this.responseText;
     // convert it to json type
     var jsonArray = JSON.parse(jsonString);
     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);
// displaying the tbody(the values of the keys(Attributes))
jsonArray.forEach(function (record) {
 var row = document.createElement('tr');
  Object.keys(record).forEach(function (key) {
    var cell = document.createElement('td');
    cell.textContent = record[key];
    row.appendChild(cell);
  });
  tbody.appendChild(row);
});
table.appendChild(tbody);
displayTable.appendChild(table)
```

```
};
    xhttp.open(
        "GET",
        "https://skimtech.my/getProductByChoice.php?q=" + str,
        true
    );
    xhttp.send();
}
</script>
<div id="numberOfObject">Customer info will be listed here...</div>
<div id="attributes"></div>
<div id="displayTable"></div>
</body>
</html>
```

```
$\{\circ}\text{php}
$\parameter = \psi \text{GET('q');}
$\psi \text{sql} = "SELECT * FROM products where productLine}
$\text{result} = \psi \text{conn-papery (\psi \text{sql});}
=
*".\text{Sparameter}
// Initialize an empty array to hold the data
$\psi \text{data} = \text{array ();}
/ Insert each row into the \psi \text{data array if (\psi \text{result-paper num rows > 0) {
    foreach (\psi \text{result as \psi \text{row}) {
        $\text{data[]} = \psi \text{row;}
    }
}
// Encode the \psi \text{data array into a JSON string}
$\psi \text{son} = \psi \text{son_encode(\psi \text{data});}
// Set the appropriate headers
header ('Content-Type: application/\psi \text{son'});
/ Output the JSON string echo \text{Spson;}
Sconn-\text{pclose ();}
?>
```

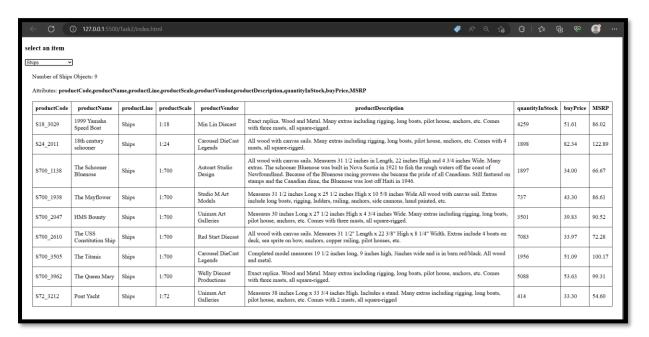
```
function showCustomer(str) {
 var xhttp;
 if (str == "") {
   document.getElementById("txtHint").innerHTML = "";
   return;
 xhttp = new XMLHttpRequest();
 xhttp.onreadystatechange = function () {
   if (this.readyState == 4 && this.status == 200) {
     // get the json data as string
     var jsonString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

displayData.js

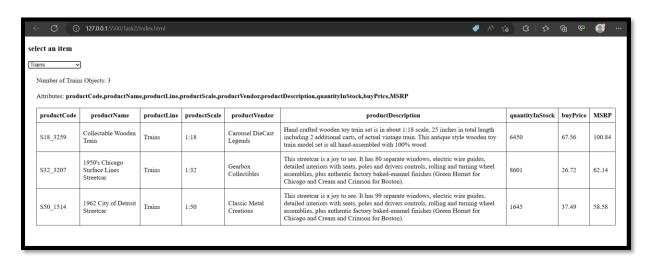
```
var attributes = Object.keys(jsonData[0]);
    console.log("Attributes in each record: " + attributes.join(", "));

// Rest of the code to display the data in a table
    // ...
}
```

Output: (for ship)



(for train)



Github link

https://github.com/Ifnhkm/S62113-Front-End.git