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**CIS 408 Lab 4**

**Due Date:** 03/23/2017

### Pre setup:

In order to read data from .json and .xml files in Chrome, I set up local web server on my computer using Node.js and http-server. The set up process is as follow:

[https://www.youtube.com/watch?v=oa9m8321\\_nw](https://www.youtube.com/watch?v=oa9m8321_nw)

After setting up the local web server, I can run my http file and extract data from .json and .xml file through localhost: 8080.

### My lab package contains 5 files:

- Restaurant.html – Layout of web page
- Lab4.css – style, show/hide when mouse over, click.
- Drop.js – function for drop down menu and function to access and access .json, .xml files.
- Restaurant\_menu.xml
- YelpOneBusinessJasonData.json

### Restaurant.html:

#### Source code:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <link rel="stylesheet" type="text/css" href="lab4.css">
    <script type="text/javascript" src="drop.js"></script>
  </head>
  <body>
    <button onclick="drop()" class="dropbtn">Dropdown</button>
    <div id="myDropdown" class="dropdown-content">
      <a id="name" href="#" onclick="myfunction(this.id);">NAME</a>
      <a id="address" href="#" onclick="myfunction(this.id);">ADDRESS</a>
      <a id="business" href="#" onclick="myfunction(this.id);">BUSINESS HOURS</a>
      <a id="menu" href="#" onclick="drop1()" class="dropmenu">MENU</a>
      <a id="service" href="#" onclick="myfunction(this.id);">SERVICE and FEATURES</a>
    </div>

    <div class="test">
      <div id="name1"></div>
      <div id="address1"></div>
      <div id="business1"></div>
      <div id="service1"></div>
      <div id="menu1" class="menu-drop">
        <a id="BREAKFAST" href="#" onclick="myfunction1(this.id);">BREAKFAST</a>
        <a id="BRUNCH" href="#" onclick="myfunction1(this.id);">BRUNCH</a>
        <a id="LUNCH" href="#" onclick="myfunction1(this.id);">LUNCH</a>
        <a id="DINNER" href="#" onclick="myfunction1(this.id);">DINNER</a>
        <a id="DRINKS" href="#" onclick="myfunction1(this.id);">DRINKS</a>
      </div>
    </div>
  </body>
</html>
```

```

</div>
<div id="menu2"></div>
<div id="menu3"></div>
<div id="menu4"></div>
</div>

</body>
<script>
function myfunction(id){
  var lol=getData.JSON(id);
}
function myfunction1(id){
  var hmm=getData.XML(id);
}
</script>
</html>

```

## Lab4.css:

### Source code:

```

.dropbtn {
background-color: #4CAF50;
color: white;
padding: 16px;
font-size: 12px;
border: none;
cursor: pointer;
}

.dropbtn:hover, .dropbtn:focus {
background-color: #3e8e41;
}

.dropdown {
position: relative;
display: inline-block;
}

.dropdown-content {
font-size: 12px;
display: none;
position: absolute;
background-color: #f9f9f9;
min-width: 20px;
overflow: auto;
box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
}

.dropdown-content a {
font-weight: 900;
color: #006622;

```

```
padding: 12px 16px;
text-decoration: none;
display: block;
}
.menu-drop{
display: none;
position: absolute;
background-color: #f9f9f9;
min-width: 20px;
overflow: auto;
}
```

```
.menu-drop a {
color: #006622;
font-size: 14px;
font-weight:500;
padding: 10px 10px;
text-decoration: none;
display: block;
}
.dropdown-content a:hover {
background-color: #f1f1f1;
}
```

```
.menu-drop a:hover {
background-color: #f1f1f1;
}
```

```
.show {
display:block;
}
```

```
.show1{
display:block;
}
```

```
div #name1{
color:#016b27;
position: absolute;
top: 22px;
left: 150px;
font-size: 22px;
font-weight: bold;
}
```

```
div #address1{
color: #016b27;
position: absolute;
top: 26px;
left: 300px;
```

```
font-size: 18px;  
}
```

```
div #business1{  
color:#016b27;  
position: absolute;  
top: 240px;  
right: 200px;  
font-size: 12px;  
}
```

```
div #service1{  
color:#016b27;  
position: absolute;  
top: 26px;  
right: 300px;  
font-size: 15px;  
}
```

```
div #menu1{  
font-family: Charcoal, sans-serif;  
font-weight: 500;  
position: absolute;  
top: 250px;  
left: 10px;  
font-size: 14px;  
}
```

```
div #BREAKFAST a{
```

```
}
```

```
div #menu2{  
color: #009900;  
font-family: "Comic Sans MS", cursive, sans-serif;  
position: absolute;  
left: 300px;  
top: 150px;  
}
```

```
div #menu3{  
color: #009900;  
font-family: "Comic Sans MS", cursive, sans-serif;  
position: absolute;  
left: 800px;  
top: 150px;  
}
```

```
div #menu4{  
color: #004d00;
```

```

font-family: Charcoal, sans-serif;
font-weight: 900;
position: absolute;
left: 170px;
top: 150px;
}

```

## Drop.js:

### Source code:

```

/* When the user clicks on the button,
toggle between hiding and showing the dropdown content */
function drop() {
    document.getElementById("myDropdown").classList.toggle("show");
}
function drop1(){
    document.getElementById("menu1").classList.toggle("show1");
}

// Close the dropdown menu if the user clicks outside of it
window.onclick = function(event) {
    if (!event.target.matches(".dropbtn")) {
        var dropdowns = document.getElementsByClassName("dropdown-content");
        var i;
        for (i = 0; i < dropdowns.length; i++) {
            var openDropdown = dropdowns[i];
            if (openDropdown.classList.contains('show')) {
                openDropdown.classList.remove('show');
            }
        }
    }
    if (!event.target.matches(".dropmenu")) {
        var dropdowns = document.getElementsByClassName("menu-drop");
        var i;
        for (i = 0; i < dropdowns.length; i++) {
            var openDropdown = dropdowns[i];
            if (openDropdown.classList.contains('show')) {
                openDropdown.classList.remove('show');
            }
        }
    }
}

/*class getData with get.Data.JSON and getData.XML functions */
function getData(){
}
/* for name, business, service, address buttons, data is extracted from .json fle, hence separate function to access json*/
getData.JSON=function(select){ /* depend on which button is click, the button id is passed to this function*/
    var lol;
    var x=1;

```

```

var final=select+1;
var display = document.getElementById(final);
var ajaxhttp = new XMLHttpRequest();
var url="YelpOneBusinessJasonData.json";
ajaxhttp.open("GET",url,true);
ajaxhttp.setRequestHeader("CONTENT-type","application/json");
ajaxhttp.onreadystatechange=function(){
    if(ajaxhttp.readyState == 4 && ajaxhttp.status ==200){
        var jcontent = JSON.parse(ajaxhttp.responseText);
        console.log(jcontent);
        console.log("lol is "+jcontent.name);
        console.log( "display" +display);
        if(select=="name"){ /* if name is clicked */
            display.innerHTML=jcontent.name;
        }else if(select=="address"){
            display.innerHTML=jcontent.full_address;
        }else if(select=="business"){ /* if business is clicked*/
            display.innerHTML="<b>HOURS</b>";
            display.innerHTML+="<br>";
            display.innerHTML+="Monday &emsp; &emsp; &emsp;"+ jcontent.hours.Monday.open +"&ensp; am &emsp; -
&emsp;"+ jcontent.hours.Monday.close+"&ensp; pm";
            display.innerHTML+="<br>";
            display.innerHTML+="Tuesday &emsp; &emsp; &emsp;"+ jcontent.hours.Tuesday.open +"&ensp; am &emsp; -
&emsp;"+ jcontent.hours.Tuesday.close+"&ensp; pm";
            display.innerHTML+="<br>";
            display.innerHTML+="Wednesday &emsp; &emsp;"+ jcontent.hours.Wednesday.open +"&ensp; am &emsp; -
&emsp;"+ jcontent.hours.Wednesday.close+"&ensp; pm";
            display.innerHTML+="<br>";
            display.innerHTML+="Thursday &ensp; &emsp; &emsp;"+ jcontent.hours.Thursday.open +"&ensp; am &emsp; -
&emsp;"+ jcontent.hours.Thursday.close+"&ensp; pm";
            display.innerHTML+="<br>";
            display.innerHTML+="Friday &ensp; &emsp; &emsp; &emsp;"+ jcontent.hours.Friday.open +"&ensp; am &emsp; -
&emsp;"+ jcontent.hours.Friday.close+"&ensp; pm";
            display.innerHTML+="<br>";
        }else if(select=="service"){ /* if service is clicked*/
            display.innerHTML= " ";
            for(var objKey in jcontent.attributes){
                if(jcontent.attributes[objKey] ===true){
                    display.innerHTML+=objKey;
                    display.innerHTML+="<br>";
                }
            }
        }
    }
}
ajaxhttp.send(null);
console.log("lol is"+lol);
}
/* function to extract data from XML file */

```

```

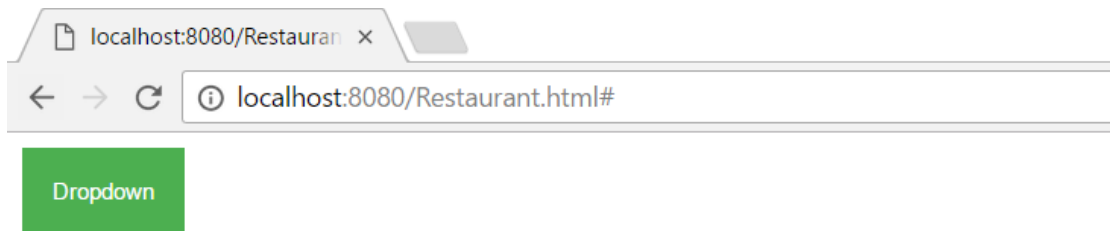
/* select hold the reference value to which button of menu is clicked – breakfast, brunch, lunch, dinner or drinks */
getData.XML=function(select){
var xhttp = new XMLHttpRequest();
var url="restaurant_menu.xml";
xhttp.open("GET", url, true); /* open xml file */
xhttp.send();
xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
        showResult(xhttp.responseXML); /* extract and show appropriate data */
    }
};

function showResult(xml) {
    var itemName = " ";
    var itemPrice=" ";
    var listName=" ";
/* constructing appropriate XPATH to extract wanted nodes, in this case any node under childNode of MENU's child
nodes */
    var path="MENU/";
    path=path+select;
    path=path+"/*";
/* path structure example: "MENU/BREAKFAST/*" */
    var nodes = xml.evaluate(path, xml, null, XPathResult.ANY_TYPE, null);
    var result = nodes.iterateNext();
    var count=0;
    while (result) { /*loop through entire document*/
        if(result.childNodes[0].nodeValue==null | result.tagName=="FROM" ) /* skip any null value or <FROM>*/
            result = nodes.iterateNext(); /* proceeding to next node */
        if(count==0){
            listName+=result.parentNode.tagName+": <br> <br> <br>"; /* extract section that food items belong to */
            itemName += result.childNodes[0].nodeValue+" <br> <br> <br>"; /* extract <NAME> */
            count++;
        }else{
            itemPrice += result.childNodes[0].nodeValue+" <br> <br> <br>"; /* extract <PRICE> */
            count--;
        }
        result = nodes.iterateNext(); /* proceeding to next node */
    }
    document.getElementById("menu4").innerHTML = listName; /* display to web page */
    document.getElementById("menu2").innerHTML = itemName;
    document.getElementById("menu3").innerHTML = itemPrice;
}
}

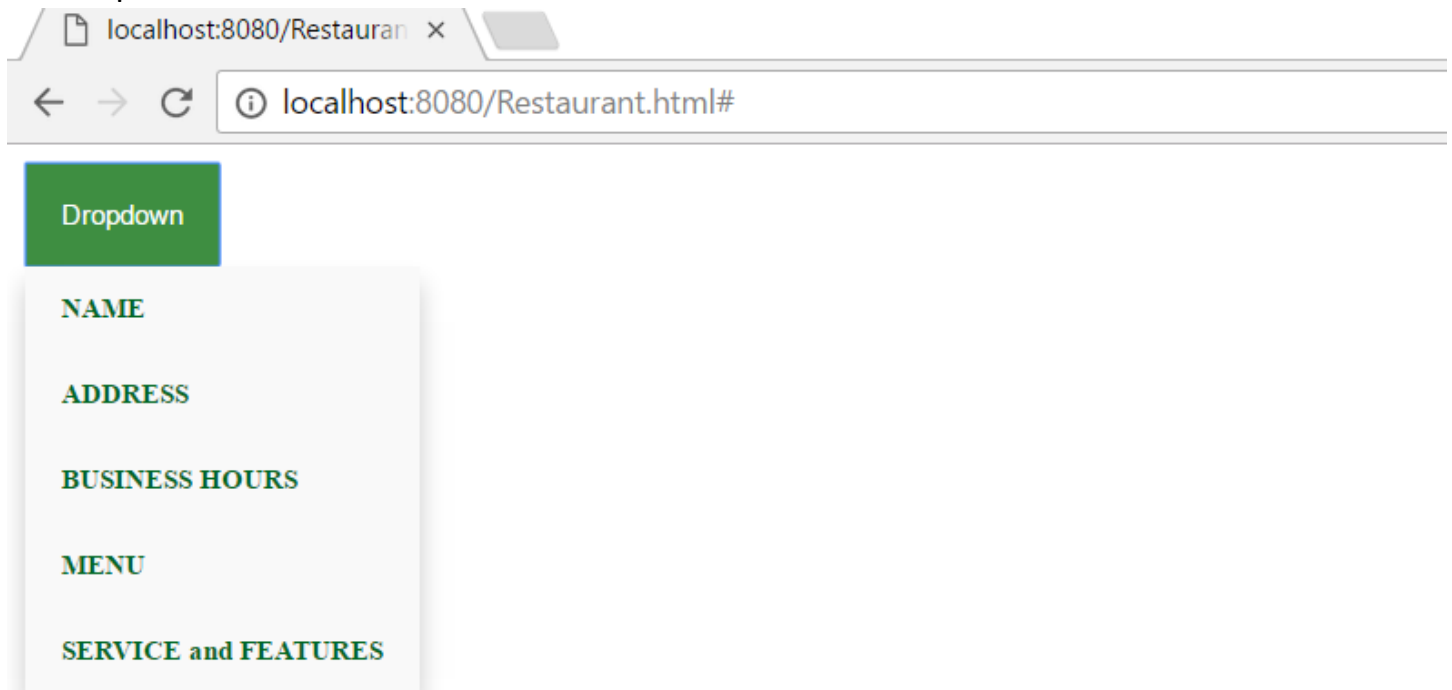
```

## Screen Shot:

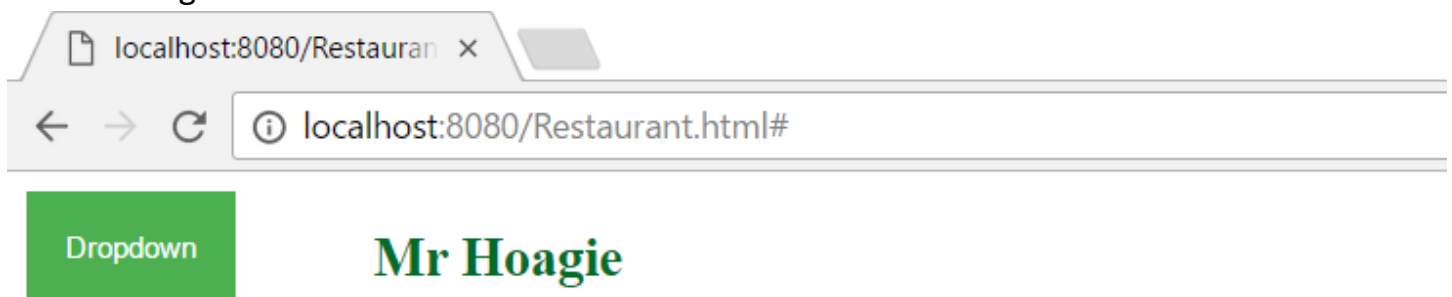
On startup:



On Dropdown button click:



On Selecting NAME



On Selecting ADDRESS:



Dropdown

4734 Lebanon Church Rd Dravosburg, PA 15034

On Selecting BUSINESS HOURS:

HOURS			
Monday	11:00 am	-	21:00 pm
Tuesday	11:00 am	-	21:00 pm
Wednesday	11:00 am	-	21:00 pm
Thursday	11:00 am	-	21:00 pm
Friday	11:00 am	-	21:00 pm

On selecting SERVICE:

- Take-out
- Takes Reservations
- Has TV
- Outdoor Seating
- Waiter Service
- Accepts Credit Cards
- Good for Kids
- Good For Groups

On selecting MENU:

- BREAKFAST
- BRUNCH
- LUNCH
- DINNER
- DRINKS

On selecting MENU/BREAKFAST:

BREAKFAST	<b>APPETIZER:</b>	Fruit Bowl	10.90
	<b>SALAD:</b>	Caeser SALAD	3.90
	<b>SOUP:</b>	Chicken Noodle	5.90
	<b>ANTREE:</b>	Omelet	20.90
	<b>ANTREE:</b>	Scrambled Eggs	20.90
BRUNCH	<b>DESSERT:</b>	Apple Pie	7.90

On selecting MENU/BRUNCH:

localhost:8080/Restauran x

← → ↻

localhost:8080/Restaurant.html#

Dropdown

BREAKFAST	<b>APPETIZER:</b>	Fruit Bowl	10.90
	<b>APPETIZER:</b>	EggPlant Frits	10.90
	<b>SALAD:</b>	House Salad	3.90
	<b>SOUP:</b>	Chicken Noodle	5.90
	<b>ANTREE:</b>	French Toast	20.90
BRUNCH	<b>ANTREE:</b>	Omelet	20.90
LUNCH	<b>ANTREE:</b>	Scrambled Eggs	20.90
DINNER	<b>ANTREE:</b>	Hamburg	20.90
DRINKS	<b>DESSERT:</b>	Apple Pie	7.90

On selecting MENU/LUNCH

Dropdown

- BREAKFAST
- BRUNCH
- LUNCH
- DINNER
- DRINKS

APPETIZER:	Calamari	10.90
LUNCH:	Caeser Salad	3.90
SALAD:	Arugula Salad	3.90
SOUP:	Chicken Noodle	5.90
SOUP:	Italian Wedding Soup	5.90
ANTREE:	Steak	20.90
ANTREE:	Hamburg	20.90
ANTREE:	Angel Hair Pasta	20.90
DESSERT:	Tiramisu	7.90

On selecting MENU/DINNER:

- BREAKFAST
- BRUNCH
- LUNCH
- DINNER
- DRINKS

APPETIZER:	Calamari	10.90
APPETIZER:	EggPlant Frits	10.90
DINNER:	House Salad	3.90
SALAD:	Caeser Salad	3.90
DINNER:	Chicken Noodle	5.90
SOUP:	Italian Wedding Soup	5.90
SOUP:	Roasted Patato	5.90
ANTREE:	Steak	20.90
ANTREE:	Hamburg	20.90
ANTREE:	Angel Hair Pasta	20.90
ANTREE:	Roasted Duck	20.90
DESSERT:	Apple Pie	7.90
DESSERT:	Tiramisu	7.90
DESSERT:	Creme Brule	7.90

On selecting MENU/DRINKS:

localhost:8080/Restauran x

← → ↻

localhost:8080/Restaurant.html#

Dropdown

- BREAKFAST
- BRUNCH
- LUNCH
- DINNER
- DRINKS

BEER:	Bud Weiser	5.90
BEER:	Hefe Weissbier	6.90
WINE:	Cabernet Sauvignon	15.90
WINE:	Margaux	50.90
WINE:	Pinot Noir	12.90
WINE:	Chianti	10.90
COFFEE:	Star Bucks	3.90
DRINKS:	Coca Cola	3.90
DRINKS:	Sprite	3.90

On select sequence ADDRESS → SERVICES:

localhost:8080/Restauran x

← → ↻

localhost:8080/Restaurant.html#

Dropdown

4734 Lebanon Church Rd Dravosburg, PA 15034

Take-out  
Takes Reservations  
Has TV  
Outdoor Seating  
Waiter Service  
Accepts Credit Cards  
Good for Kids  
Good For Groups

On select sequence ADDRESS → SERVICE → MENU

localhost:8080/Restaurant x

localhost:8080/Restaurant.html#

Dropdown

4734 Lebanon Church Rd Dravosburg, PA 15034

Take-out

Takes Reservations

Has TV

Outdoor Seating

Waiter Service

Accepts Credit Cards

Good for Kids

Good For Groups

BREAKFAST

BRUNCH

LUNCH

DINNER

DRINKS

On selecting all Elements:

localhost:8080/Restaurant x

localhost:8080/Restaurant.html#

Dropdown

Mr Hoagie

4734 Lebanon Church Rd Dravosburg, PA 15034

Take-out

Takes Reservations

Has TV

Outdoor Seating

Waiter Service

Accepts Credit Cards

Good for Kids

Good For Groups

BREAKFAST

BRUNCH

LUNCH

DINNER

DRINKS

APPETIZER:

Fruit Bowl

10.90

APPETIZER:

EggPlant Frits

10.90

SALAD:

House Salad

3.90

SOUP:

Chicken Noodle

5.90

ANTREE:

French Toast

20.90

ANTREE:

Omelet

20.90

ANTREE:

Scrambled Eggs

20.90

ANTREE:

Hamburg

20.90

DESSERT:

Apple Pie

7.90

HOURS

Monday

11:00 am - 21:00 pm

Tuesday

11:00 am - 21:00 pm

Wednesday

11:00 am - 21:00 pm

Thursday

11:00 am - 21:00 pm

Friday

11:00 am - 21:00 pm