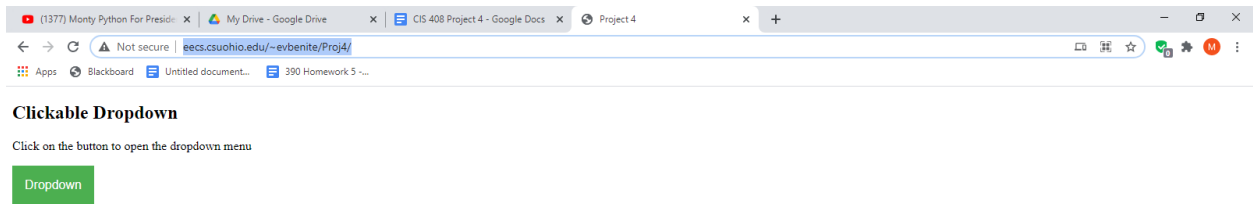


# Project 3

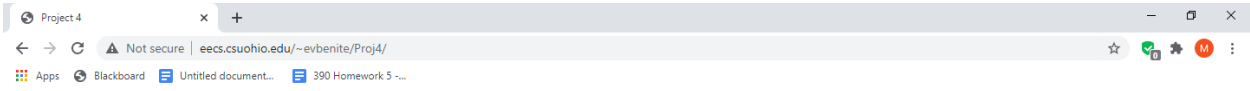
Link: <http://eecs.csuohio.edu/~evbenite/Proj4/>

(NOTE: the files in the zip file DO NOT USE AJAX! This is so that it functions directly from the files on your computer, and to make it easier to edit while constructing the pages. The files on the grail server DO USE AJAX! Also the code in this report pdf file also uses AJAX. Please Grade based on the Files one the grail server.)

## Screen Shots



Blank index page



Clickable Dropdown

Click on the button to open the dropdown menu



Mr Hoagie  
Address

4734 Lebanon Church Rd  
Dravosburg, PA 15034

Hours

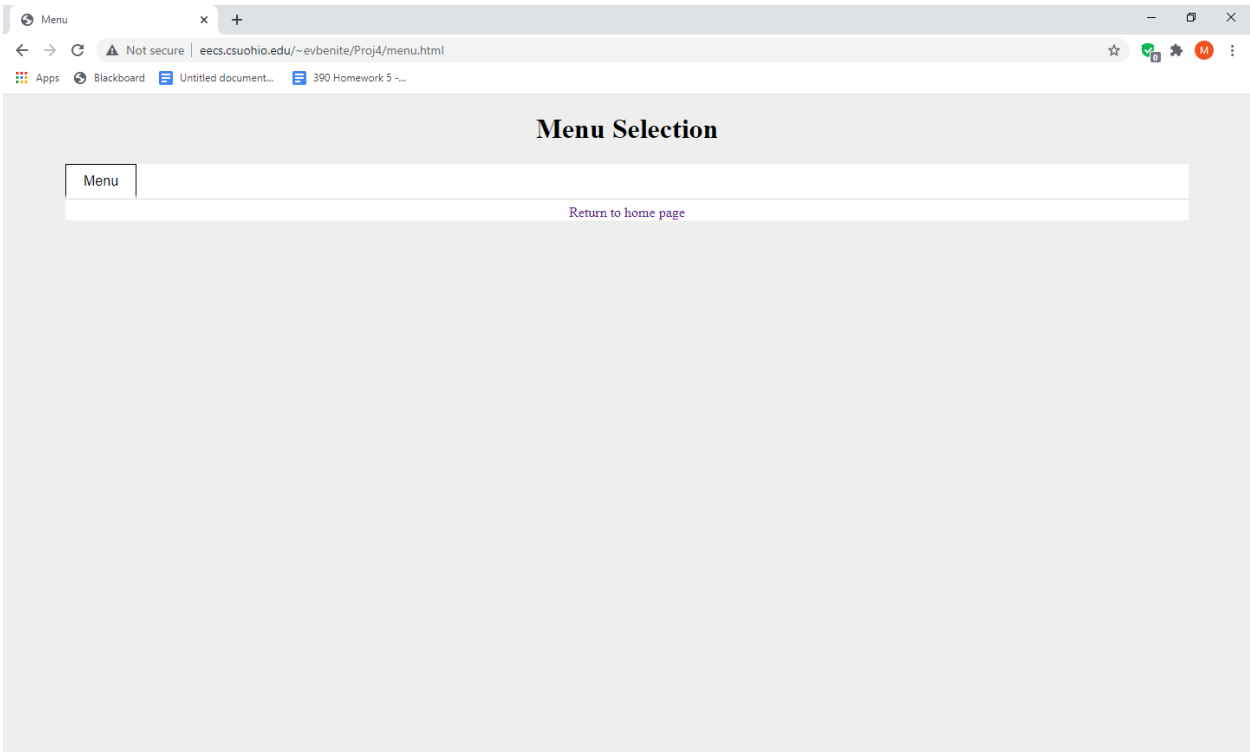
Monday	11:00 am - 9:00 pm
Tuesday	11:00 am - 9:00 pm
Wednesday	11:00 am - 9:00 pm
Thursday	11:00 am - 9:00 pm
Friday	11:00 am - 9:00 pm

Services & Features

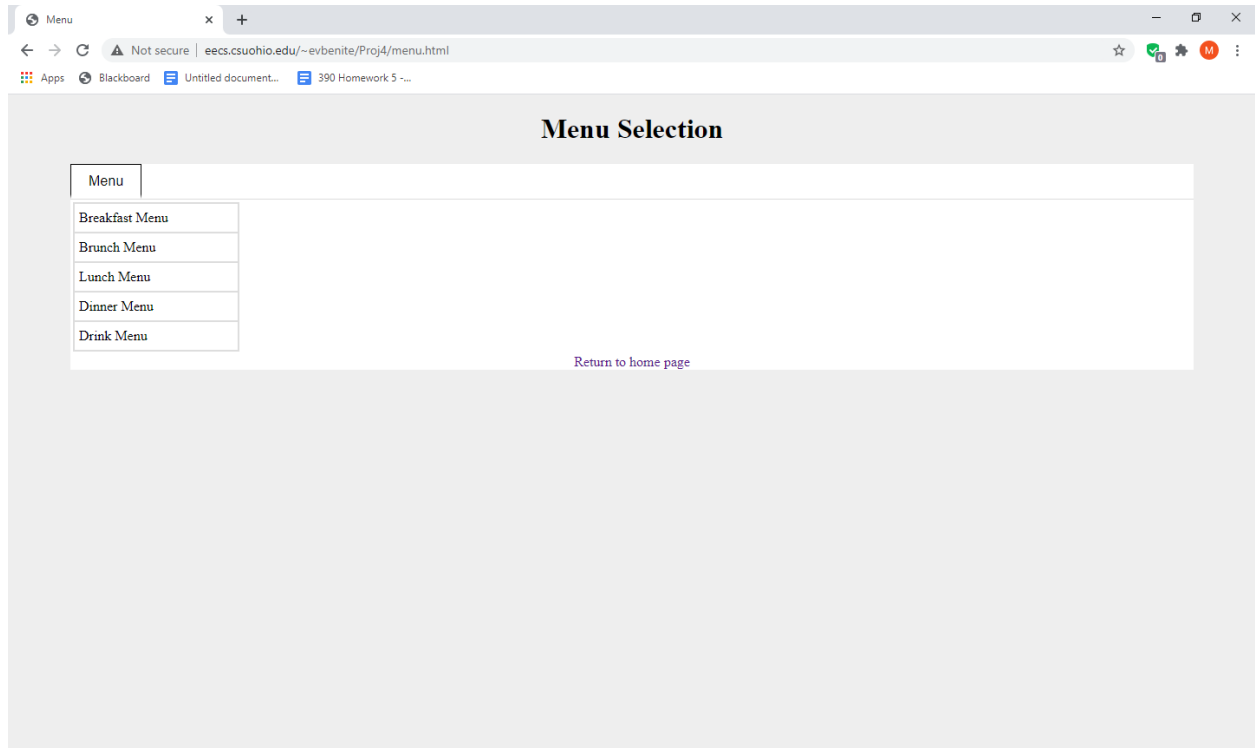
- Take-out
- Has TV
- Alcohol: none
- Good for Kids
- Noise Level: average
- Outdoor Seating
- Waiter Service
- Good For Groups
- Takes Reservations
- Attire: casual
- Accepts Credit Cards
- Price Range: 2

Good For: latenight, lunch, dinner, brunch, breakfast  
Ambience: romantic, hipster, trendy, casual  
Parking: street, lot

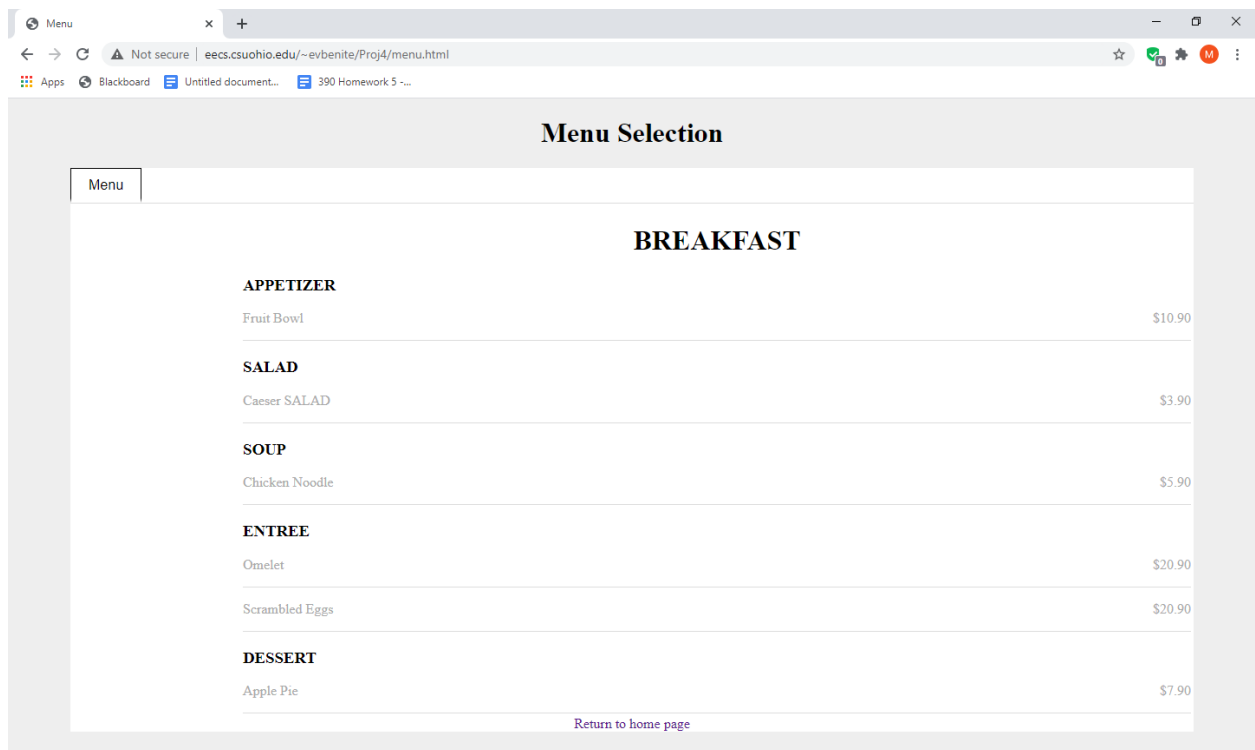
Fully Populated



Blank menu page



With menu selection open



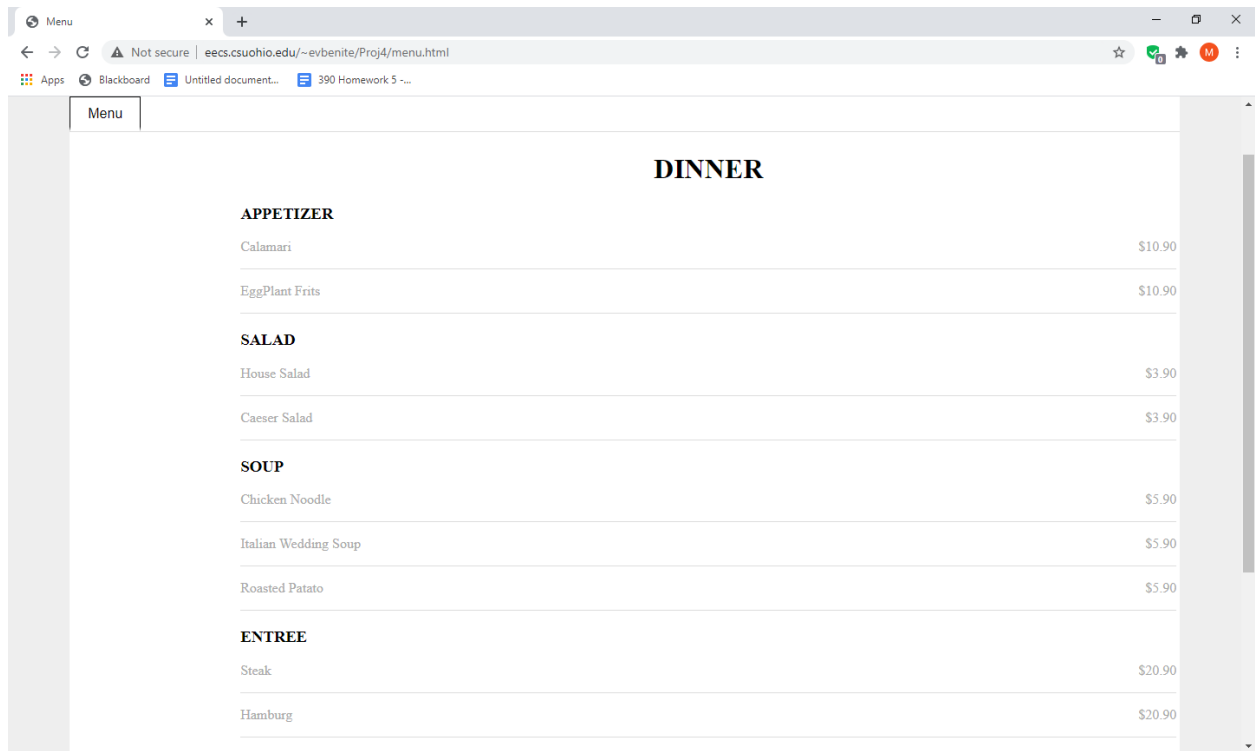
Breakfast Menu

Menu Selection	
Menu	
BRUNCH	
APPETIZER	
Fruit Bowl	\$10.90
EggPlant Frits	\$10.90
SALAD	
House Salad	\$3.90
SOUP	
Chicken Noodle	\$5.90
ENTREE	
French Toast	\$20.90
Omelet	\$20.90
Scrambled Eggs	\$20.90
Hamburg	\$20.90

Brunch Menu

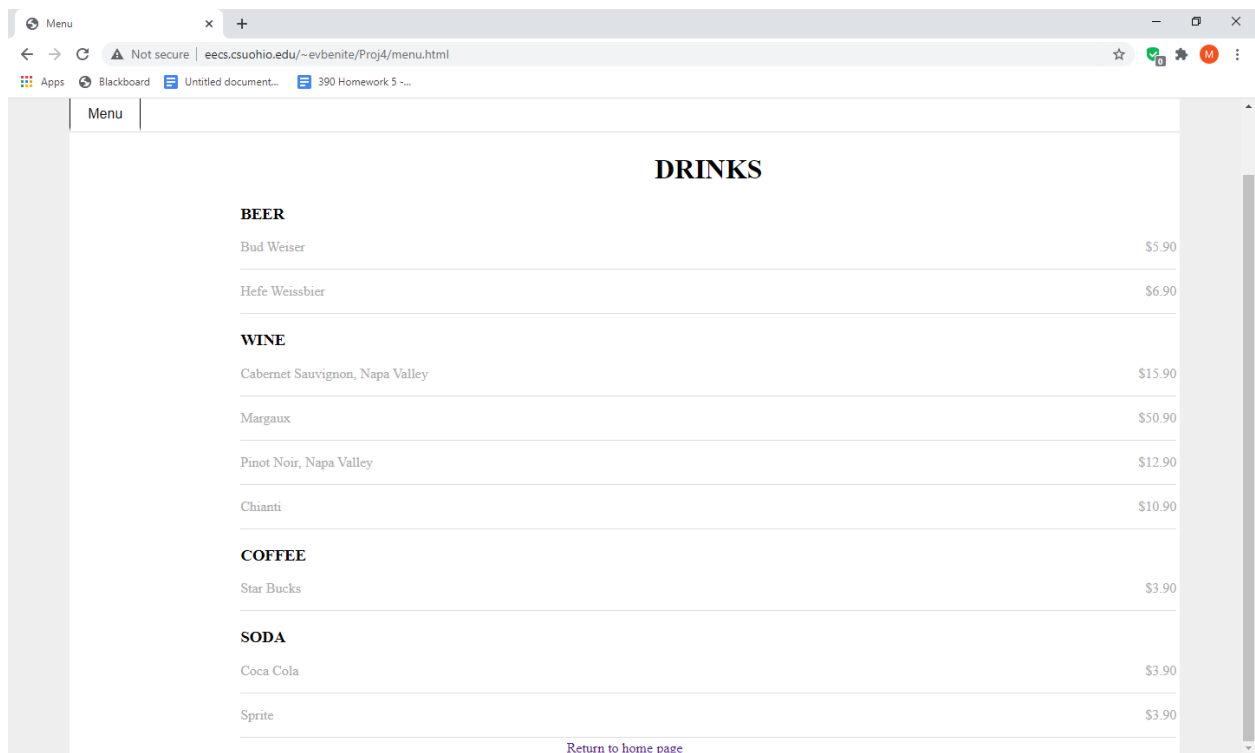
LUNCH	
APPETIZER	
Calamari	\$10.90
SALAD	
Caesar Salad	\$3.90
Arugula Salad	\$3.90
SOUP	
Chicken Noodle	\$5.90
Italian Wedding Soup	\$5.90
ENTREE	
Steak	\$20.90
Hamburg	\$20.90
Angel Hair Pasta	\$20.90
DESSERT	
Tiramisu	\$7.90
<a href="#">Return to home page</a>	

Lunch Menu



Menu	
DINNER	
APPETIZER	
Calamari	\$10.90
EggPlant Frits	\$10.90
SALAD	
House Salad	\$3.90
Caeser Salad	\$3.90
SOUP	
Chicken Noodle	\$5.90
Italian Wedding Soup	\$5.90
Roasted Patato	\$5.90
ENTREE	
Steak	\$20.90
Hamburg	\$20.90

Dinner Menu



Menu	
DRINKS	
BEER	
Bud Weiser	\$5.90
Hefe Weissbier	\$6.90
WINE	
Cabernet Sauvignon, Napa Valley	\$15.90
Margaux	\$50.90
Pinot Noir, Napa Valley	\$12.90
Chianti	\$10.90
COFFEE	
Star Bucks	\$3.90
SODA	
Coca Cola	\$3.90
Sprite	\$3.90
<a href="#">Return to home page</a>	

Drink Menu

## Code

### Index.html

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1/EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Project 4</title>
    <meta name="viewport" content="width=device-width, initial-scale=1"/>
    <link type="text/css" href="format.css" rel="stylesheet" />
    <script type="text/javascript" src="script.js"></script>
  </head>

  <body>
    <div id="main">
      <h2>Clickable Dropdown</h2>
      <p>Click on the button to open the dropdown menu</p>
      <div class="dropdown" onclick="menuClick()">
        <button class="dropbtn">Dropdown</button>
        <div id="menu" class="dropdown-content">
          <a onclick="getName()">NAME</a>
          <a onclick="getAddress()">ADDRESS</a>
          <a onclick="getHours()">BUSINESS HOURS</a>
          <a href="menu.html">MENU</a>
          <a onclick="getServicesAndFeatures()">SERVICES and FEATURES</a>
        </div>
      </div>
      <div>
        <div id="bName"></div>
        <div id="bAddress"></div>
        <div>
          <table>
            <tr>
              <td class="left"><div id="bHours"></div></td>
              <td class="right">
                <table style="width: auto;">
                  <tr>
                    <td class="feature"><div id="attributes1"></div></td>
                  </tr>
                </table>
              </td>
            </tr>
          </table>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
<tr>
  <td class="feature"><div id="attributes2"></div></td>
</tr>
</table>
</td>
</tr>
</table>
</div>
</div>
</div>
</body>
</html>
```

### menu.html

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1/EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Menu</title>
    <meta name="viewport" content="width=device-width, initial-scale=1"/>
    <link type="text/css" href="format.css" rel="stylesheet" />
    <script type="text/javascript" src="menuScript.js"></script>
  </head>

  <body id="menu-body" onload="init()">
    <div>
      <center><h1>Menu Selection</h1></center>
      <div class="inner-frame">
        <button class="menubtn" onclick="onMenu()">Menu</button>
        <div style="border-top: 1px solid #dddddd;">
          <table>
            <tr>
              <td id="menu-pane">
                <div id="food-menu" class="menu-options" onclick="onMenu()">
                  <a onclick="onBreakfast()">Breakfast Menu</a>
                  <a onclick="onBrunch()">Brunch Menu</a>
                  <a onclick="onLunch()">Lunch Menu</a>
                  <a onclick="onDinner()">Dinner Menu</a>
                  <a onclick="onDrink()">Drink Menu</a>
                </div>
              </td>
            </tr>
          </table>
        </div>
      </div>
    </div>
  </body>
</html>
```

```
        <td id="menu-content"></td>
    </tr>
</table>
    <center><a href="index.html">Return to home page</a></center>
</div>
</div>
</div>
</body>
</html>
```

### **format.css**

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

.menubtn {
    background-color: #ffffff;
    padding-left: 20px;
    padding-right: 20px;
    padding-top: 10px;
    padding-bottom: 6px;
    font-size: 16px;
    border: 1px solid black;
    border-bottom: 5px solid #ffffff;
    cursor: pointer;
}

.menubtn:hover, .menubtn:focus {
    border-bottom: 5px solid red;
}

#menu-body {
    background: #eeeeee;
    width: 90%;
    margin: auto;
}

.inner-frame {
    background: #ffffff;
```



```
}

#menu-content {
  width: 85%;
}

#menu-content div {
  border-bottom: 1px solid #dddddd;
}

#menu-content p {
  color: #aaaaaa;
}

#menu-content span {
  float: right;
}

.dropbtn:hover, .dropbtn:focus {
  background-color: #5CcF60;
}

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

.dropdown-content {
  display: none;
  position: absolute;
  background-color: #f9f9f9;
  min-width: 160px;
  overflow: auto;
  box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
}

.dropdown-content a {
  color: black;
  padding: 7px 5px;
  background-color: #f1f1f1;
  display: block;
  cursor: pointer;
}
```

```
.dropdown-content a:hover {  
  background-color: #dddddd;  
}
```

```
#menu-pane {  
  vertical-align: baseline;  
}
```

```
.menu-options {  
  display: none;  
  min-width: 160px;  
  overflow: auto;  
  border: 1px solid #dddddd;  
}
```

```
.menu-options a {  
  color: black;  
  padding: 7px 5px;  
  background-color: #ffffff;  
  border: 1px solid #dddddd;  
  display: block;  
  cursor: pointer;  
}
```

```
.menu-options a:hover {  
  background-color: #dddddd;  
}
```

```
table {  
  width: 100%;  
}
```

```
a {  
  text-decoration: none;  
}
```

```
#bName, #bAddress {  
  text-align: center;  
}
```

```
.left {  
  width: 25%;  
}
```

```
.right {  
  width: 75%;  
  float:right;  
}  
  
.feature {  
  width: 100%;  
}  
  
.attributes td{  
  padding-right: 30px;  
}  
  
.hide {  
  visibility: hidden;  
}  
  
.show {display:block;}
```

### **script.js**

```
var Business_Data;  
var http = new XMLHttpRequest();  
http.onreadystatechange = function() {  
  if(this.readyState == 4 && this.status == 200) {  
    Business_Data = JSON.parse(this.responseText);  
    init();  
  }  
};  
http.open("GET", "~/sschung/CIS408/YelpOneBusinessJsonData.json", true);  
http.send();  
  
function init() {  
  // get name  
  var node = document.getElementById("bName");  
  node.innerHTML = "<h1 style='color: green;'>" + Business_Data.name + "</h1>";  
  node.classList.add("hide");  
  
  //get address  
  node = document.getElementById("bAddress");  
  var text = Business_Data.full_address.replace("\n", "<br />")  
  node.innerHTML = "<h1 style='color: green;'>Address</h1>" +  
    "<h4>" + text + "</h4>";
```

```
node.classList.add("hide");

//get Hours
node = document.getElementById("bHours");
var hours = "";
var x;
hours = "<table><tr>"

//this is necessary because the days are not in order
if(x = "Sunday" in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x = "Monday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x = "Tuesday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x = "Wednesday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x = "Thursday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x = "Friday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}
if((x == "Saturday") in Business_Data.hours) {
    hours += "<td>" + x + "</td><td>" + get12HourTime(Business_Data.hours[x].open) + " - " +
get12HourTime(Business_Data.hours[x].close) + "</td></tr>";
}

node.innerHTML = "<h1 style='color: red;'>Hours</h1>" + hours + "</table>";
node.classList.add("hide");

//get features
var node1 = document.getElementById("attributes1");
var node2 = document.getElementById("attributes2");
```

```
var listFeatures1 = "<table><tr><td style='color: red; font-size: 34px; font-weight:
bold;'>Services & Features</td><td></td><td></td></tr>";
var listFeatures2 = "";
var count1 = 0;
for(feature in Business_Data.attributes) {
  if(Business_Data.attributes[feature]) {
    if(Business_Data.attributes[feature] == true){
      if(count1 == 0)
        listFeatures1 += "<tr>"
      listFeatures1 += "<td>-" + feature + "</td>";
      count1++;
      if(count1 == 3){
        listFeatures1 += "</tr>"
        count1 = 0;
      }
    }
  }
  else {
    if(Business_Data.attributes[feature] instanceof Object) {
      //print header
      for(subFeature in Business_Data.attributes[feature]) {
        if(Business_Data.attributes[feature][subFeature]) {
          listFeatures2 += "<b style='font-size: 18px;'>" + feature + ": </b>";
          break;
        }
      }
      for(subFeature in Business_Data.attributes[feature]) {
        if(Business_Data.attributes[feature][subFeature]) {
          listFeatures2 += subFeature + ", ";
        }
      }
      //remove trailing comma
      if(listFeatures2.length > 0 &&
listFeatures2.substring(listFeatures2.length-2,listFeatures2.length-1) == ",")
        listFeatures2 = listFeatures2.slice(0,-2);
      listFeatures2 += "<br />";
    }
  }
  else {
    if(count1 == 0)
      listFeatures1 += "<tr>"
    listFeatures1 += "<td>-" + feature + ": " + Business_Data.attributes[feature] + "</td>";
    count1++;
    if(count1 == 3){
      listFeatures1 += "</tr>"
      count1 = 0;
    }
  }
}
```

```
    }
  }
}
}
while(count1 != 3) {
  listFeatures1 += "<td></td>"
  count1++;
  if(count1 == 4){
    listFeatures1 += "</tr>"
    count1 = 0;
  }
}
listFeatures1 += "</table>";
node1.innerHTML = listFeatures1;
node2.innerHTML = listFeatures2;
node1.classList.add("hide");
node2.classList.add("hide");
}

function menuClick() {
  var menu = document.getElementById("menu");
  if(!menu.classList.contains("show")){
    menu.classList.add("show");
  }
  else {
    menu.classList.remove("show");
  }
}

function getName() {
  if(document.getElementById("bName").classList.contains("hide")){
    document.getElementById("bName").classList.remove("hide");
  }
  else {
    document.getElementById("bName").classList.add("hide");
  }

  console.log("in the getName");
}

function getAddress() {
  if(document.getElementById("bAddress").classList.contains("hide")){
    document.getElementById("bAddress").classList.remove("hide");
  }
}
```

```
}  
else {  
    document.getElementById("bAddress").classList.add("hide");  
}  
  
console.log("in the getAddress");  
}  
  
function getHours() {  
    if(document.getElementById("bHours").classList.contains("hide")){  
        document.getElementById("bHours").classList.remove("hide");  
    }  
    else {  
        document.getElementById("bHours").classList.add("hide");  
    }  
  
    console.log("in the getHours");  
}  
  
function getMenu() {  
    console.log("in the getMenu");  
}  
  
function getServicesAndFeatures () {  
    if(document.getElementById("attributes1").classList.contains("hide")){  
        document.getElementById("attributes1").classList.remove("hide");  
        document.getElementById("attributes2").classList.remove("hide");  
    }  
    else {  
        document.getElementById("attributes1").classList.add("hide");  
        document.getElementById("attributes2").classList.add("hide");  
    }  
  
    console.log("in the getServices");  
}  
  
function get12HourTime(time) {  
    if(time.length == 5 && parseInt(time.substring(0,2)) <= 12) {  
        return time + " am";  
    }  
    else {  
        return "" + (parseInt(time.substring(0,2))-12) + time.substring(2) + " pm";  
    }  
}
```

### **menuScript.js**

```
var menu_xml;

function init() {
    var http = new XMLHttpRequest();

    http.onreadystatechange = function() {
        if(this.readyState == 4 && this.status == 200) {
            menu_xml = this.responseXML
        }
    }
    http.open("GET", "~/sschung/CIS408/restaurant_menu.xml", true);
    http.send();
}

function onMenu() {
    var menu = document.getElementById("food-menu");
    if(menu.classList.contains("show")) {
        menu.classList.remove("show");
    }
    else {
        menu.classList.add("show");
    }
}

// print breakfast menu
function onBreakfast() {
    if(menu_xml.evaluate){
        menuAssembler("BREAKFAST");
    }
    else {
        alert("Your browser does not support XPath");
    }
}

// print brunch menu
function onBrunch() {
    if(menu_xml.evaluate){
        menuAssembler("BRUNCH");
    }
    else {
```



```
    alert("Your browser does not support XPath");
}

}

// print lunch menu
function onLunch() {
    if(menu_xml.evaluate){
        menuAssembler("LUNCH");
    }
    else {
        alert("Your browser does not support XPath");
    }
}

// print dinner menu
function onDinner() {
    if(menu_xml.evaluate){
        menuAssembler("DINNER");
    }
    else {
        alert("Your browser does not support XPath");
    }
}

// print drink menu
function onDrink() {
    if(menu_xml.evaluate){
        menuAssembler("DRINKS");
    }
    else {
        alert("Your browser does not support XPath");
    }
}

// create the specified menu
function menuAssembler(subMenu) {
    //get item type
    var path = "/" + subMenu + "/*";
    var nodes = menu_xml.evaluate(path, menu_xml, null, XPathResult.ANY_TYPE, null);
    var result = nodes.iterateNext();
    var types = [];
    while(result) {
        if(types.indexOf(result.tagName) == -1)
```

```
    types.push(result.tagName);
    result = nodes.iterateNext();
}
// print menu
var menu = document.getElementById("menu-content");
var text = "<h1><center>" + subMenu + "</center></h1>";
for(var i=0; i<types.length; i++) {
    text += "<h3>" + types[i] + "</h3>";
    //get item type nodes
    path = "/" + subMenu + "/" + types[i];
    nodes = menu_xml.evaluate(path, menu_xml, null, XPathResult.ANY_TYPE, null);
    result = nodes.iterateNext();

    while(result) {
        console.log(result.tagName);
        text += "<div><p>";

        // deal with irregular xml and extra data not in most sub trees
        for(var j = 0; j<result.childNodes.length; j++) {
            var seek = result.childNodes[j];
            while(seek.hasChildNodes()) {
                seek = seek.childNodes[0];
            }
            if(seek.parentNode.tagName == "FROM"){
                text += ", " + seek.nodeValue;
            }
            else {
                if(seek.parentNode.tagName == "PRICE"){
                    text += "<span>$" + seek.nodeValue + "</span>";
                }
                else {
                    text += seek.nodeValue;
                }
            }
        }
        text += "</p></div>";
        result = nodes.iterateNext();
    }
}
menu.innerHTML = text;
}
```