

Kalan Assignment 2

by Kalan Jay Hughes

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Assignment 2

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Higher National Diploma: Computing (Web Development)

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Introduction

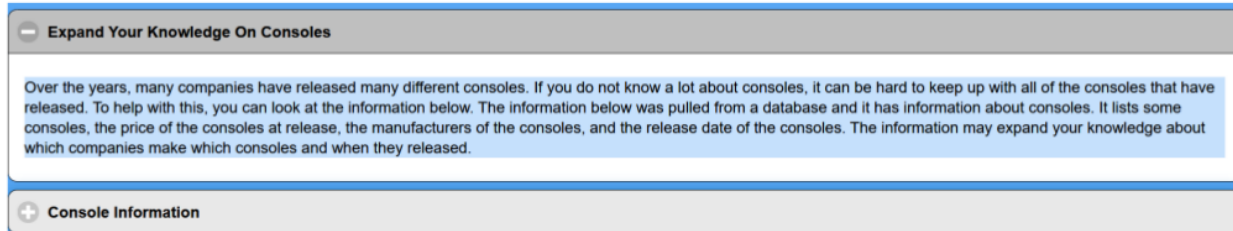
This assignment required an application to be created that is suitable for use on a mobile phone using JQuery Mobile. The site required JavaScript to be used to import external data. 2 separate AJAX calls were required. One of them had to be to a public JSON API and the second one had to be data that was created for this assignment.

This report contains information regarding the creation of the website. The report will show screenshots of the components with annotations. It will also talk about the development of each of the components. The code for the components will also be displayed. All of the code that was used to create the website will be displayed. There will be a conclusion and a bibliography section which contains all of the references used when creating the website.

Website Components

This section of the report contains all of the components that were created for the website. There are screenshots of the components on the website. The methodology of each component is also talked about and there are annotated code listings of all of the components.

Collapsibles

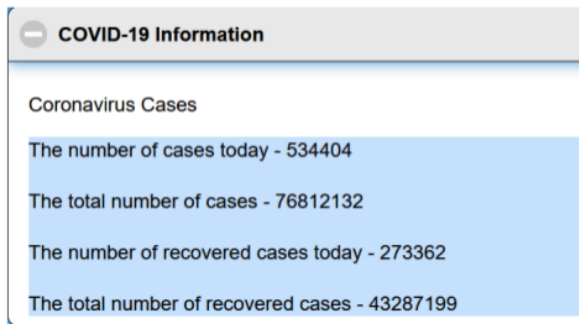


The first component that was created for the website was collapsibles. The collapsibles can be found on page 2 and page 3 on the website. The user interacts with them by clicking the heading. When the heading is clicked, the collapsible opens to reveal hidden information. Once the user is finished with the information, they can click the heading again to close the collapsible which hides the information. Collapsibles are useful as they can reduce the amount of information on the screen which can help to improve the user's navigation on the website.

The collapsible was created by adding a "collapsiblesheet" data-role. A data-collapsed was added which makes the first collapsible open by default. The second collapsible does not have a data-collapsed which means that the collapsible is closed by default. The collapsible was created with jQuery because it is more difficult to create it with JavaScript. The collapsible was created because it is a mobile feature which was one of the requirements for the website. Below is the annotated code listing for the collapsibles.

```
97 <div data-role="collapsiblesheet"> <!--adds a collapsible to the website-->
98 <div data-role="collapsible" data-collapsed="false"> <!--first collapsible automatically open-->
99 <h1>Expand Your Knowledge On Consoles</h1> <!--collapsible header-->
100 <p class="collapse">Over the years, many companies have released many different consoles. If you do not know
101 To help with this, you can look at the information below. The information below was pulled from a database
102 the manufacturers of the consoles, and the release date of the consoles. The information may expand your know
103 </div><!--collapsible content-->
104
105 <div data-role="collapsible"> <!--second collapsible, click to open-->
106 <h1>Console Information</h1>
107 <p> ID - Console Name - Release Price - Manufacturer - Release Date</p>
108 <div class="collapse" id="message"></div> <p>[5]</p> <!-- Linked to function, displays database content-->
109 </div>
110 </div>
```

AJAX Call – Public API



The second component that was created was an AJAX call to a public JSON API. This is located inside of the second collapsible on page 3 of the website. There were no API's that were related to the content of the website, so an API about Coronavirus statistics was used. The information displayed is automatically updated. The user can open and close the collapsible to help make user navigation easier.

The JSON API component was produced by creating a function that linked to a website which had information about the Coronavirus. The function also selects which pieces of data will be displayed on the website by getting the fields from the API. A div class containing the "demo" id was created to allow the API information to be displayed in a collapsible. The public API component was created with JavaScript because it is a simple way of connecting to a public API and displaying the information. This component was created because it seamlessly displays a public JSON API in the website which was one of the requirements for the website. Below is the annotated code listing for the public JSON API component.

```
44 var xmlhttp = new XMLHttpRequest();
45
46 xmlhttp.onreadystatechange = function() { // Function to display public api on website
47     if (this.readyState == 4 && this.status == 200) {
48
49         var myObj=JSON.parse(this.responseText); //response from our AJAX call
50         mydemo=document.getElementById("demo") //connect to div tag
51         // mydemo.innerHTML=JSON.stringify(myObj); //print RAW JSON to the screen
52
53         thenewconfirmed=myObj["Global"]["NewConfirmed"] // gets these fields from the api
54         thetotalconfirmed=myObj["Global"]["TotalConfirmed"]
55         thenewrecovered=myObj["Global"]["NewRecovered"]
56         thetotalrecovered=myObj["Global"]["TotalRecovered"]
57
58         mydemo.innerHTML+="The number of cases today -"+" "+ thenewconfirmed // These fields are displayed on the website
59         mydemo.innerHTML+="<br><br>The total number of cases -"+" "+ thetotalconfirmed
60         mydemo.innerHTML+="<br><br>The number of recovered cases today -"+" "+ thenewrecovered
61         mydemo.innerHTML+="<br><br>The total number of recovered cases -"+" "+ thetotalrecovered
62
63     }
64 };
```

```
114 <div data-role="collapsible"> <!--second collapsible, click to open-->
115 <h1>Coronavirus Information</h1>
116 <p> Coronavirus Cases</p>
117 <div class="collapse" id="demo"> <!-- Linked to function, displays api content-->
118 </div>
119 </div>
```

AJAX Call – Database

				id	consolename	releaseprice	manufacturer	releasedate
☐				1	PlayStation	299	Sony	09/09/1995
☐				2	PlayStation 2	299	Sony	26/10/2000
☐				3	PlayStation 3	425	Sony	17/11/2006
☐				4	PlayStation 4	349.99	Sony	15/11/2013
☐				5	PlayStation 5	449.99	Sony	19/11/2020
☐				6	Xbox	300	Microsoft	15/11/2001
☐				7	Xbox 360	209.99	Microsoft	22/11/2005
☐				8	Xbox One	429	Microsoft	22/11/2013
☐				9	Xbox Series X	449.99	Microsoft	10/11/2020
☐				10	Nintendo Entertainment System	79.99	Nintendo	18/10/1985
☐				11	Super Nintendo Entertainment System	150	Nintendo	13/08/1991
☐				12	Nintendo 64	249.99	Nintendo	29/09/1996
☐				13	Nintendo GameCube	129	Nintendo	18/11/2001
☐				14	Wii	179	Nintendo	19/11/2006
☐				15	Nintendo Switch	280	Nintendo	03/03/2017

Console Information

ID - Console Name - Release Price - Manufacturer - Release Date

1 - PlayStation - £299 - Sony - 09/09/1995

2 - PlayStation 2 - £299 - Sony - 26/10/2000

3 - PlayStation 3 - £425 - Sony - 17/11/2006

4 - PlayStation 4 - £349.99 - Sony - 15/11/2013

5 - PlayStation 5 - £449.99 - Sony - 19/11/2020

6 - Xbox - £300 - Microsoft - 15/11/2001

7 - Xbox 360 - £209.99 - Microsoft - 22/11/2005

8 - Xbox One - £429 - Microsoft - 22/11/2013

9 - Xbox Series X - £449.99 - Microsoft - 10/11/2020

10 - Nintendo Entertainment System - £79.99 - Nintendo - 18/10/1985

11 - Super Nintendo Entertainment System - £150 - Nintendo - 13/08/1991

12 - Nintendo 64 - £249.99 - Nintendo - 29/09/1996

13 - Nintendo GameCube - £129 - Nintendo - 18/11/2001

14 - Wii - £179 - Nintendo - 19/11/2006

15 - Nintendo Switch - £280 - Nintendo - 03/03/2017

Console Information

ID - Console Name - Release Price - Manufacturer - Release Date

1 - PlayStation - £299 - Sony - 09/09/1995
 2 - PlayStation 2 - £299 - Sony - 26/10/2000
 3 - PlayStation 3 - £425 - Sony - 17/11/2006
 4 - PlayStation 4 - £349.99 - Sony - 15/11/2013
 5 - PlayStation 5 - £449.99 - Sony - 19/11/2020
 6 - Xbox - £300 - Microsoft - 15/11/2001
 7 - Xbox 360 - £209.99 - Microsoft - 22/11/2005
 8 - Xbox One - £429 - Microsoft - 22/11/2013
 9 - Xbox Series X - £449.99 - Microsoft - 10/11/2020
 10 - Nintendo Entertainment System - £79.99 - Nintendo - 18/10/1985
 11 - Super Nintendo Entertainment System - £150 - Nintendo - 13/08/1991
 12 - Nintendo 64 - £249.99 - Nintendo - 29/09/1996
 13 - Nintendo GameCube - £129 - Nintendo - 18/11/2001
 14 - Wii - £179 - Nintendo - 19/11/2006
 15 - Nintendo Switch - £280 - Nintendo - 03/03/2017

The final component that was created was an AJAX call to a database. This is located inside of the second collapsible on page 2 of the website. The data provides information about console names, the price of the consoles, the manufacturer, and the release date of the consoles. The information displayed is automatically updated. The user can open and close the collapsible to help make user navigation easier.

The database component was produced by creating a file called "conninfo.php" which connected to phpMyAdmin. Another file called "myjson.php" was created which linked to the consoles database and it selected all the fields in the database. A function was then created which linked to the "myjson.php" file and it got all the database information from the database. A div class containing the "message" id was created to allow the database information to be displayed in a collapsible. The database component was created with php and JavaScript because it was a simple way to display the database information on the website. This component was created because it displays data dynamically from a database which was one of the requirements for the website. Below is the annotated code listing for the database AJAX component.

```

1 <?php
2 $strServer="localhost";
3 $strDatabase="kalan_"; // Links to my database
4 $strUser="root"; // Username for phpMyAdmin
5 $strPwd=""; // password for phpMyAdmin
6
7 $link=mysqli_connect($strServer,$strUser,$strPwd,$strDatabase)
8 or die("Could not open database"); // Displayed if database cannot open
9
10
11
12
13
14
15
16
17
18
19
20
21
22

```

```

1 <?header("Access-Control-Allow-Origin: *"); //CORS Cross-origin Resource Sharing
2 include "conninfo.php"; // Links to conninfo.php
3
4 $query="SELECT * FROM consoles"; // Selects all fields from consoles table
5 $result=mysqli_query($link,$query);
6
7 $encode=array();
8
9 //print_r($result); // Displays the information
10
11 while($r=mysqli_fetch_assoc($result))
12 {
13     $encode[]=$r;
14 }
15
16 echo "{\n\"consoles\":\n";
17
18 echo json_encode($encode);
19
20 echo "\n}";
21
22

```

```

42 <script>
43
44     var xmlhttp = new XMLHttpRequest();
45
46     xmlhttp.onreadystatechange=function(){ // Function to display database information on website
47
48         if(this.readyState==4 && this.status==200) //4 request+response successful 200 = OK from server
49         {
50             mymessage=document.getElementById("message");
51             var myObj=JSON.parse(this.responseText);
52
53             for(i in myObj["consoles"])
54             {
55                 mymessage.innerHTML+=myObj["consoles"][i]["id"]+" - "; //These fields are displayed on the website
56                 mymessage.innerHTML+=myObj["consoles"][i]["consolename"]+" - <span>#163;</span>";
57                 mymessage.innerHTML+=myObj["consoles"][i]["releaseprice"]+" - ";
58                 mymessage.innerHTML+=myObj["consoles"][i]["manufacturer"]+" - ";
59                 mymessage.innerHTML+=myObj["consoles"][i]["releasedate"]+"<Br>";
60
61             }
62
63         }
64
65     }
66     xmlhttp.open("GET","myjson.php",true); // Links to the myjson.php file
67     xmlhttp.send();
68
69
70 </script>

```

```

105 <div data-role="collapsible"> <!--second collapsible, click to open-->
106 <h1>Console Information</h1>
107 <p> ID - Console Name - Release Price - Manufacturer - Release Date</p>
108 <div class="collapse" id="message"></div> <p>[5]</P> <!-- Linked to function, displays database content-->
109 </div>
110 </div>

```

Code Listing Page 1:

This is the annotated code listing for page 1 in the website.

```
1 <html>
2 <head>
3
4 <script src="jquery-3.5.1.js"></script> <!-- These scripts allow for themes and different features to be included -->
5 <script src="http://code.jquery.com/jquery-migrate-3.0.0.js"></script>
6 <link rel="stylesheet" href="themes/kalan1.min.css" />
7 <link rel="stylesheet" href="themes/jquery.mobile.icons.min.css" />
8 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-1.4.5.min.css" />
9 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
10 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
11
12 <style>
13 #pageheading {
14 text-align: center;
15 font-size: 80px;
16 }
17
18 #mybutton.ui-btn { background-color : #79b9fb}
19 #mybutton2.ui-btn { background-color : #79b9fb}
20 #mybutton3.ui-btn { background-color : #79b9fb}
21 #mybutton4.ui-btn { background-color : #79b9fb}
22
23 #leftpanel {
24 background-color: #c5e0fc;
25 }
26
27 .maintext{
28 background-color: #99CCFF;
29 text-align: center;
30 }
31
32 .footer{
33 background-color: #99CCFF;
34 text-align: center;
35 }
36
37 hr{
38 background-color: Black;
39 margin-bottom: 20px;
40 }
41 </style> <!--Style tag allows me to style certain things in the website-->
42
43
44 <script language="JavaScript" type="text/javascript">
45 var myimg1=new Image(); <!-- This adds the four images that will be used in the function below-->
46 var myimg2=new Image();
47 var myimg3=new Image();
48 var myimg4=new Image();
49 myimg1.src="magnavox.jpg";
50 myimg2.src="magnavox2.jpg";
51 myimg3.src="ralph.jpg";
52 myimg4.src="magnavoxlogo.jpg";
```

```

54 function changeimage(theimage,replacementimg,thestate) <!-- This function allows for images to change once the mouse hovers over them-->
55 {
56
57 theimage.src=replacementimg.src;
58 theconsolemessage=document.getElementById("conmessage")
59 thesecondmessage=document.getElementById("secmessage")
60
61     if(thestate==1)
62     {
63         theconsolemessage.innerHTML="Magnavox Odyssey 2 (1978) [2] " <!--messages that will be displayed with the pictures-->
64     }
65     else if(thestate==2)
66     {
67         theconsolemessage.innerHTML="Magnavox Odyssey (1972) [2] "
68     }
69     else if(thestate==3)
70     {
71         thesecondmessage.innerHTML="Magnavox Logo [4]"
72     }
73     else{
74         thesecondmessage.innerHTML="Ralph H. Baer [3]"
75     }
76 }
77 </script>

```

```

80 <script type="text/javascript">
81 function checkquiz() <!-- This function adds a quiz to the website-->
82 {
83     themessage=document.getElementById("message")
84     answer=document.getElementById("xbo") <!--This is the answer for the first question-->
85     if(answer.checked)
86     {
87         themessage.style.color='08aa08' <!-- if answer is correct, well done displayed in green-->
88         themessage.innerHTML="Well Done"
89     }
90     else
91     {
92         themessage.style.color='FF0000' <!-- if answer is incorrect, wrong answer displayed in red-->
93         themessage.innerHTML="Wrong Answer"
94     }
95 }
96

```

```

98 function checkquiz2()
99 {
100     themessage=document.getElementById("message2")
101     answer=document.getElementById("ds")
102     if(answer.checked)
103     {
104         themessage.style.color='08aa08'
105         themessage.innerHTML="Well Done"
106     }
107     else
108     {
109         themessage.style.color='FF0000'
110         themessage.innerHTML="Wrong Answer"
111     }
112 }
113
114 function checkquiz3()
115 {
116     themessage=document.getElementById("message3")
117     answer=document.getElementById("mag")
118     if(answer.checked)
119     {
120         themessage.style.color='08aa08'
121         themessage.innerHTML="Well Done"
122     }
123     else
124     {
125         themessage.style.color='FF0000'
126         themessage.innerHTML="Wrong Answer"
127     }
128 }
129
130

```

```

132 function checkquiz4()
133 {
134     themessage=document.getElementById("message4")
135     answer=document.getElementById("ps4")
136     if(answer.checked)
137     {
138         themessage.style.color='08aa08'
139         themessage.innerHTML="Well Done"
140     }
141     else
142     {
143         themessage.style.color='FF0000'
144         themessage.innerHTML="Wrong Answer"
145     }
146 }
147
148 function checkquiz5()
149 {
150     themessage=document.getElementById("message5")
151     answer=document.getElementById("xsx")
152     if(answer.checked)
153     {
154         themessage.style.color='08aa08'
155         themessage.innerHTML="Well Done"
156     }
157     else
158     {
159         themessage.style.color='FF0000'
160         themessage.innerHTML="Wrong Answer"
161     }
162 }
163
164 </script>
165 </head>

```

```

167 <body>
168
169 <h1 id="pageheading">About Gaming Consoles</h1> <!-- This adds a heading to the website-->
170
171
172 <div data-role="main" class="maintext"> <!-- This adds a navigation menu-->
173 <h2>Navigation Menu</h2>
174 <a href="#leftpanel" id="mybutton" class="ui-btn ui-btn-inline">Open Panel</a> <!--Button to open panel-->
175 <a href="index.html" id="mybutton2" data-ajax="false" class="ui-btn ui-btn-inline">Page 1</a> <!--Button to go to page 1-->
176 <a href="pagetwo.html" id="mybutton3" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-r ui-btn-icon-right">Page 2</a>
177 <!--Button to go to page 2-->
178 <a href="pagethree.html" id="mybutton4" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-r ui-btn-icon-right">Page 3</a>
179 <!--Button to go to page 3-->
180 </div><br><br>
181
182 <div data-role="panel" id="leftpanel" data-display="push"> <!-- This adds a panel to the website-->
183 <h2>Consoles that have released in the last 20 years</h2> <!--This is the content in the panel-->
184 <p>PlayStation 2 - 2000<br>
185 GameCube - 2001<br>
186 Xbox - 2001<br>
187 Game Boy Advance - 2001<br>
188 N-Gage - 2003<br>
189 Nintendo DS - 2004<br>
190 PlayStation Portable - 2004<br>
191 Xbox 360 - 2005<br>
192 PlayStation 3 - 2006<br>
193 Wii - 2006<br>
194 Nintendo 3DS - 2011<br>
195 PlayStation Vita - 2011<br>
196 Wii U - 2012<br>
197 PlayStation 4 - 2013<br>
198 Xbox One - 2013<br>
199 Nintendo Switch - 2017<br>
200 PlayStation 5 - 2020<br>
201 Xbox Series X/S - 2020<br>
202 [1]<br>
203 </p>
204 <a id="panelcancel" data-rel="close" data-swipe="close" data-swipe="true" >Close panel</a> <!-- Button to close panel-->
205 </div>
206
207
208 <div class="maintext"> <!-- First paragraph on website-->
209 <h2> About The Website</h2>
210 <p>This website contains information that will help to expa
211 This page also has information about the Magnavox consoles.
212 The second page contains information about the evolution of
213 The third page contains information about the game of the y
214 information about the Coronavirus statistics.</p><br><br>
215 </div>
216
217
218 <div class="maintext"> <!--Second paragraph on website-->
219 <h2>The Magnavox Series</h2>
220  <!--changes picture when mouse hovers over-->
222 <span id="commessage">...</span> <!--Displays message for each picture-->
223 
225 <span id="secmessage">...</span>
226 <p>The first ever video game console was released in 1972 and it was called the Magnavox Odyssey. It was designed by Ralph H. Baer. Magnavo
227 Magnavox would go on to release an additional 8 consoles up until 1977. In 1974, a company called Phillips purchased Magnavox. They decided
228 These were called the Phillips Odyssey 200, Phillips Odyssey 2001, and the Phillips Odyssey 2100. In 1978, the Mangavox Odyssey 2 was relea
229 </p><br><br>
230 </div>
231
232
233 <div class="maintext"> <!--This is the quiz-->
234 <h2>Console Quiz</h2>
235
236 <form action="javascript:checkquiz()">
237 What console did Microsoft release in 2001?<br><br><!--This is the question-->
238 PlayStation 2 <input type="radio" id="pla" name="con" checked="checked"><br> <!--These are the answers-->
239 Xbox <input type="radio" id="xbo" name="con"><br>
240 Wii <input type="radio" id="wi" name="con"><br><br>
241 <input type="submit" value="submit" style="background-color: midnightblue"> <!--Submit button-->
242 </form>
243 <div id="message">...</div><br> <!--displays right or wrong answer-->
244 <hr><!-- adds black line to sepearate questions-->

```

```

247 <form action="javascript:checkquiz2()">
248   What console did Nintendo release in 2004?<br><br>
249   Nintendo DS <input type="radio" id="ds" name="con2" checked="checked"><br>
250   Nintendo Wii <input type="radio" id="wi" name="con2"><br>
251   Nintendo Switch <input type="radio" id="swi" name="con2"><br><br>
252   <input type="submit" value="submit" style="background-color: midnightblue">
253 </form>
254 <div id="message2">...</div><br>
255 <hr>
256
257
258 <form action="javascript:checkquiz3()">
259   What was the first ever console?<br><br>
260   Magnavox Odyssey <input type="radio" id="mag" name="con3" checked="checked"><br>
261   Atari 7800 <input type="radio" id="ata" name="con3"><br>
262   Sega Genesis <input type="radio" id="seg" name="con3"><br><br>
263   <input type="submit" value="submit" style="background-color: midnightblue">
264 </form>
265 <div id="message3">...</div><br>
266 <hr>
267
268
269 <form action="javascript:checkquiz4()">
270   What was the best-selling console of 2014?<br><br>
271   Xbox One <input type="radio" id="xbl" name="con4" checked="checked"><br>
272   PlayStation 3 <input type="radio" id="ps3" name="con4"><br>
273   Xbox 360 <input type="radio" id="x36" name="con4"><br>
274   PlayStation 4 <input type="radio" id="ps4" name="con4"><br><br>
275   <input type="submit" value="submit" style="background-color: midnightblue">
276 </form>
277 <div id="message4">...</div><br>
278 <hr>
279
280
281 <form action="javascript:checkquiz5()">
282   What is the name of the newest Xbox?<br><br>
283   Xbox One <input type="radio" id="xbl" name="con4" checked="checked"><br>
284   Xbox Series X <input type="radio" id="xss" name="con4"><br>
285   Xbox One X <input type="radio" id="xox" name="con4"><br>
286   Xbox <input type="radio" id="ps4" name="xbo"><br><br>
287   <input type="submit" value="submit" style="background-color: midnightblue">
288 </form>
289 <div id="message5">...</div><br>
290 <hr>
291 </div>
292
293
294
295 <div class="footer"> <!--adds a footer-->
296   <h2>References</h2>
297   <p>[1] "Video game console," Wikipedia, 9 December 2020.
298   [2] "Odyssey Series," Wikipedia, 7 December 2020. [Online
299   [3] "Ralph H. Baer," Wikipedia, 14 December 2020. [Online
300   [4] "Magnavox," Wikipedia, 11 December 2020. [Online]. Av
301 </p>
302
303   <h4>&copy; Kalan 2020</h4>
304 </div>
305 </body>
306 </html>

```

Code Listing Page 2:

This is the annotated code listing for page 2 in the website.

```
1 <html>
2 <head>
3
4 <script src="jquery-3.5.1.js"></script> <!-- These scripts allow for themes and different features to be included -->
5 <script src="http://code.jquery.com/jquery-migrate-3.0.0.js"></script>
6 <link rel="stylesheet" href="themes/kalan1.min.css" />
7 <link rel="stylesheet" href="themes/jquery.mobile.icons.min.css" />
8 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-1.4.5.min.css" />
9 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
10 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
11
12 <style>
13 #pageheading {
14 text-align: center;
15 font-size: 80px;
16 }
17
18 #mybutton.ui-btn { background-color : #79b9fb}
19 #mybutton2.ui-btn { background-color : #79b9fb}
20 #mybutton3.ui-btn { background-color : #79b9fb}
21 #mybutton4.ui-btn { background-color : #79b9fb}
22
23 #leftpanel {
24 background-color: #c5e0fc;
25 }
26
27 .collapse {
28 background-color: #c5e0fc !important;
29 }
30
31 .maintext{
32 background-color: #99CCFF;
33 text-align: center;
34 }
35
36 .footer{
37 background-color: #99CCFF;
38 text-align: center;
39 }
40 </style> <!--Style tag allows me to style certain things in the website-->
41
42 <script>
43
44 var xmlhttp = new XMLHttpRequest();
45
46 xmlhttp.onreadystatechange=function() { // Function to display database information on website
47
48     if(this.readyState==4 && this.status==200) //4 request+response successful 200 = OK from server
49     {
50         mymessage=document.getElementById("message");
51         var myObj=JSON.parse(this.responseText);
52
53         for(i in myObj["consoles"])
54         {
55             mymessage.innerHTML+=myObj["consoles"][i]["id"]+" - "; //These fields are displayed on the website
56             mymessage.innerHTML+=myObj["consoles"][i]["consolename"]+" - <span>#163;</span>";
57             mymessage.innerHTML+=myObj["consoles"][i]["releaseprice"]+" - ";
58             mymessage.innerHTML+=myObj["consoles"][i]["manufacturer"]+" - ";
59             mymessage.innerHTML+=myObj["consoles"][i]["releasedate"]+"<br>";
60         }
61     }
62
63 }
64
65 }
66 xmlhttp.open("GET","myjson.php",true); // Links to the myjson.php file
67 xmlhttp.send();
68
69 </script>
70 </head>
```

```

73 </body>
74
75 <h1 id="pageheading">About Gaming Consoles</h1> <!-- This adds a heading to the website-->
76
77 <div data-role="main" class="maintext"> <!-- This adds a navigation menu-->
78 <h2>Navigation Menu</h2>
79 <a href="#leftpanel" id="mybutton" class="ui-btn ui-btn-inline">Open Panel</a> <!--Button to open panel-->
80 <a href="index.html" id="mybutton2" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-l ui-btn-icon-left">Page 1</a>
81 <!--Button to go to page 1-->
82 <a href="pagetwo.html" id="mybutton3" data-ajax="false" class="ui-btn ui-btn-inline">Page 2</a> <!--Button to go to page 2-->
83 <a href="pagethree.html" id="mybutton4" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-r ui-btn-icon-right">Page 3</a>
84 <!--Button to go to page 3-->
85 </div><br><br>
87 <div data-role="panel" id="leftpanel" data-display="push"> <!-- This adds a panel to the website-->
88 <h2>Console Evolution </h2> <!--This is the content in the panel-->
89 <p>Since their release, consoles have changed a lot. Consoles have had a lot of time to evolve and improve in
90 to become faster and more powerful. Because of this, the quality of games has also improved. This has resulted
91 The PS5 and Xbox Series X are the latest consoles to release and they are the most powerful consoles to date.
92 </p>
93 <a id="panelcancel" data-rel="close" data-swipe="close"="true" >Close panel</a> <!-- Button to close panel-->
94 </div>
97 <div data-role="collapsiblesheet"> <!--adds a collapsible to the website-->
98 <div data-role="collapsible" data-collapsed="false"> <!--first collapsible automatically open-->
99 <h1>Expand Your Knowledge On Consoles</h1> <!--collapsible header-->
100 <p class="collapse">Over the years, many companies have released many different consoles. If you do not know
101 To help with this, you can look at the information below. The information below was pulled from a database
102 the manufacturers of the consoles, and the release date of the consoles. The information may expand your
103 </p>
104 </div><!--collapsible content-->
105 <div data-role="collapsible"> <!--second collapsible, click to open-->
106 <h1>Console Information</h1>
107 <p> ID - Console Name - Release Price - Manufacturer - Release Date</p>
108 <div class="collapse" id="message"></div> <p>[5]</p> <!-- Linked to function, displays database content-->
109 </div>
110 </div>
114 <div class="footer"> <!--adds a footer-->
115 <h2>References</h2>
116 <p>
117 [5] "Launch price," Fandom, [Online]. Available: https://vgssales.fandom.com/wiki/Launch\_price. [Accessed 20 December 2020].
118 </p>
119
120 <h4>copy; Kalan 2020</h4>
121 </div>
122 </body>
123 </html>

```

Code Listing Page 3:

This is the annotated code listing for page 3 in the website.

```
1 <html>
2 <head>
3
4 <script src="jquery-3.5.1.js"></script> <!-- These scripts allow for themes and different features to be included -->
5 <script src="http://code.jquery.com/jquery-migrate-3.0.0.js"></script>
6 <link rel="stylesheet" href="themes/kalan1.min.css" />
7 <link rel="stylesheet" href="themes/jquery.mobile.icons.min.css" />
8 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-1.4.5.min.css" />
9 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
10 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
11
12 <style>
13 #pageheading {
14 text-align: center;
15 font-size: 80px;
16 }
17
18 #mybutton.ui-btn { background-color : #79b9fb}
19 #mybutton2.ui-btn { background-color : #79b9fb}
20 #mybutton3.ui-btn { background-color : #79b9fb}
21 #mybutton4.ui-btn { background-color : #79b9fb}
22
23 #leftpanel {
24 background-color: #c5e0fc;
25 }
26
27 .collapse {
28 background-color: #c5e0fc !important;
29 }
30
31 .maintext{
32 background-color: #99CCFF;
33 text-align: center;
34 }
35
36 .footer{
37 background-color: #99CCFF;
38 text-align: center;
39 }
40 </style> <!--Style tag allows me to style certain things in the website-->
41
42 <script>
43
44 var xmlhttp = new XMLHttpRequest();
45
46 xmlhttp.onreadystatechange = function() { // Function to display public api on website
47 if (this.readyState == 4 && this.status == 200) {
48
49 var myObj=JSON.parse(this.responseText); //response from our AJAX call
50 mydemo=document.getElementById("demo") //connect to div tag
51 // mydemo.innerHTML=JSON.stringify(myObj); //print RAW JSON to the screen
52
53 thenewconfirmed=myObj["Global"]["NewConfirmed"] // gets these fields from the api
54 thetotalconfirmed=myObj["Global"]["TotalConfirmed"]
55 thenewrecovered=myObj["Global"]["NewRecovered"]
56 thetotalrecovered=myObj["Global"]["TotalRecovered"]
57
58 mydemo.innerHTML+="The number of cases today -"+" "+ thenewconfirmed // These fields are displayed on the website
59 mydemo.innerHTML+="<br><br>The total number of cases -"+" "+ thetotalconfirmed
60 mydemo.innerHTML+="<br><br>The number of recovered cases today -"+" "+ thenewrecovered
61 mydemo.innerHTML+="<br><br>The total number of recovered cases -"+" "+ thetotalrecovered
62
63 }
64 };
65 xmlhttp.open("GET", "https://api.covid19api.com/summary", true); // Gets the api
66 xmlhttp.send();
67
68 </script>
69 </head>
```

```

71 <body>
72
73 <h1 id="pageheading">About Gaming Consoles</h1> <!-- This adds a heading to the website-->
74
75 <div data-role="main" class="maintext"> <!-- This adds a navigation menu-->
76 <h2>Navigation Menu</h2>
77 <a href="#leftpanel" id="mybutton" class="ui-btn ui-btn-inline">Open Panel</a> <!--Button to open panel-->
78 <a href="index.html" id="mybutton2" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-l ui-btn-icon-left">Page 1</a>
79 <!--Button to go to page 1-->
80 <a href="pagetwo.html" id="mybutton3" data-ajax="false" class="ui-btn ui-btn-inline ui-icon-arrow-l ui-btn-icon-left">Page 2</a>
81 <!--Button to go to page 2-->
82 <a href="pagethree.html" id="mybutton4" data-ajax="false" class="ui-btn ui-btn-inline">Page 3</a> <!--Button to go to page 3-->
83 </div><br><br>
84
85 <div data-role="panel" id="leftpanel" data-display="push"> <!-- This adds a panel to the website-->
86 <h2>The Game Awards - Game of the year for the past 10 Years</h2> <!--This is the content in the panel-->
87 <p>2010 - Red Dead Redemption<br>
88 2011 - The Elder Scrolls V: Skyrim<br>
89 2012 - The Walking Dead<br>
90 2013 - Grand Theft Auto V<br>
91 2014 - Dragon Age: Inquisition<br>
92 2015 - The Witcher 3: Wild Hunt<br>
93 2016 - Overwatch<br>
94 2017 - The Legend of Zelda: Breath of the wild<br>
95 2018 - God of War<br>
96 2019 - Sekiro: Shadows Die Twice<br>
97 2020 - The Last of Us Part II<br>
98 [7]<br>
99 </p>
100 <a id="panelcancel" data-rel="close" data-swipe="close"="true" >Close panel</a> <!-- Button to close panel-->
101 </div>
102
103
104 <div data-role="collapsiblesheet"> <!--adds a collapsible to the website-->
105 <div data-role="collapsible" data-collapsed="false"> <!--first collapsible automatically open-->
106 <h1>Coronavirus Impact On Consoles</h1> <!--collapsible header-->
107 <p class="collapse">The Coronavirus has had a big impact on video game consoles this year. This is because usual
108 However, because of the Coronavirus, consoles were not being sold in store, they were only being sold online[6].
109 of people trying to buy a console online, they would sell out quickly because scalpers and bots would buy the co
110 This is how the Coronavirus has had an impact on consoles. Below are some statistics on Coronavirus to help keep
111 </div> <!--collapsible content-->
112
113
114 <div data-role="collapsible"> <!--second collapsible, click to open-->
115 <h1>Coronavirus Information</h1>
116 <p> Coronavirus Cases</p>
117 <div class="collapse" id="demo"> <!-- Linked to function, displays api content-->
118 </div>
119 </div>
120
121
122
123 <div class="footer"> <!--adds a footer-->
124 <h2>References</h2>
125 <p>[6] A. Jones, "The PS5 launch will be online only," 5 November 2020. [Online]
126 [7] "List of Game of the Year awards," Wikipedia, 17 December 2020. [Online]. .
127 </p>
128
129 <h4>&copy; Kalan 2020</h4>
130 </div>
131 </body>
132 </html>

```

Code Listing – conninfo.php

This is the annotated code listing for conninfo.php.

```
1 <?php
2 $strServer="localhost";
3 $strDatabase="kalan_"; // Links to my database
4 $strUser="root"; // Username for phpMyAdmin
5 $strPwd=""; // password for phpMyAdmin
6
7 $link=mysqli_connect($strServer,$strUser,$strPwd,$strDatabase)
8 or die("Could not open database"); // Displayed if database cannot open
9 ?>
```

Code Listing – myjson.php

This is the annotated code listing for myjson.php.

```
1 <?header("Access-Control-Allow-Origin: *"); //CORS Cross-origin Resource Sharing
2 include "conninfo.php"; // Links to conninfo.php
3
4 $query="SELECT * FROM consoles"; // Selects all fields from consoles table
5 $result=mysqli_query($link,$query);
6
7 $encode=array();
8
9 //print_r($result); // Displays the information
10
11 while($r=mysqli_fetch_assoc($result))
12 {
13     $encode[]=$r;
14 }
15
16 echo "{\n\"consoles\": ";
17
18 echo json_encode($encode);
19
20 echo "\n}";
21
22 ?>
```

Conclusion

In conclusion, this report has shown the development of the components in the website. It has also shown all of the code that was used to create the website. All of the task requirements were met because the assignment required 3 pages to be made and the website had 3 pages. It also required use of mobile features on the website which was included because there were panels and collapsibles. A site style was required which the website had. An AJAX call to a public JSON API was also included in the website. Finally, an AJAX call to data created for this website was required. This was met because data from a database was displayed on the website. The quality of the website is good because all of the components work correctly which is good for the users experience. The overall integration of the site is satisfactory because the site is readable, and it has an appropriate layout and style.

Bibliography

This is a list of all of the references that were used when creating the website.

- [1] "Launch price," Fandom, [Online]. Available: https://vgsales.fandom.com/wiki/Launch_price. [Accessed 20 December 2020].
- [2] A. Jones, "The PS5 launch will be online only," 5 November 2020. [Online]. Available: <https://www.gamesradar.com/uk/the-ps5-launch-will-be-online-only/>. [Accessed 20 December 2020].
- [3] "List of Game of the Year awards," Wikipedia, 17 December 2020. [Online]. Available: https://en.wikipedia.org/wiki/List_of_Game_of_the_Year_awards. [Accessed 21 December 2020].
- [4] "Video game console," Wikipedia, 9 December 2020. [Online]. Available: https://wiki2.org/en/Timeline_of_video_game_console_releases. [Accessed 14 December 2020].
- [5] "Odyssey series," Wikipedia, 7 December 2020. [Online]. Available: [https://en.wikipedia.org/wiki/Odyssey_series#Magnavox_Odyssey_series_\(1975%E2%80%A4\)](https://en.wikipedia.org/wiki/Odyssey_series#Magnavox_Odyssey_series_(1975%E2%80%A4)). [Accessed 14 December 2020].
- [6] "Ralph H. Baer," Wikipedia, 14 December 2020. [Online]. Available: https://en.wikipedia.org/wiki/Ralph_H._Baer. [Accessed 14 December 2020].
- [7] "Magnavox," Wikipedia, 11 December 2020. [Online]. Available: <https://en.wikipedia.org/wiki/Magnavox>. [Accessed 14 December 2020].

Kalan Assignment 2

GRADEMARK REPORT

FINAL GRADE

70/100

GENERAL COMMENTS

Instructor

WEBSITE

Range of code demonstrated -I think the Coronavirus cases API is a bit of a stretch to include in a Gaming Consoles website! Nevertheless, the API is working well. It is a not particularly complex API as it only has one record. You have also read from your own database. It would have been nice to do more with the single page application features of JQuery Mobile, although you have shown a number of other features. A good effort overall.

41/60

Overall integration of website - A bit on the blue side! The submit button stretch all the way across the screen which is not a very good experience for the desktop viewer (looks better in the mobile view) The navigation would be better if you gave your links names rather than "Page 1, Page 2, Page 3 etc" For example, you could label them "Coronavirus" or "Console details" 6/10

REPORT

Analysis of technical development - You've details what you did quite clearly, don't forget to be analytical - what would you do differently next time? What problems did you encounter etc. 10/15

Annotated code listing - Quite thorough and makes it easy to follow your code. Well done. 13/15

PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

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