

Web and Mobile Technologies report by Thomas Howells

by Thomas Howells

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Web and Mobile Technologies

Mobile-enabled website utilising REST services (JSON)

Contents

Introduction	3
Program Overview	4
Index Page	4
Din Djarin	7
Grogu	9
Moff Gideon	10
About Us	11
Conclusion	12
References	13
Bibliography	20

Introduction

This report will contain information and screenshots of a mobile-enabled website utilising REST services created by a student. The student used the opportunity to make an extension of their previously built webpage on the Star Wars series 'The Mandalorian' and created it in mobile ready format. The reason for this being is that they have a lot of knowledge on the subject and as the assignment asked for functionality of the mobile-enabled website and not the information, they felt that it was fitting to do so. Although the webpages do not look completely similar to the previously made webpages the student tried to make it resemble the previously built one as much as they could. This includes the buttons, information and how the webpages actually present themselves. In a real-world situation, the student would have adapted the previously built webpages to suit both mobile and desktop browsers. To achieve this the student primarily used jQuery Mobile.

jQuery Mobile is a framework that is built on jQuery. Its main purpose is to aid in the development of mobile responsive websites or applications. jQuery Mobile has a variety of Application programming interface (API).

The student used Visual Studio Code to write the code for the webpages.

Program Overview

Index Page

The Index page is the first webpage that will display when the website is opened. This is essentially the 'Home' page. This is the page that will link itself to all the other pages within the website. There is a brief introduction and explanation of why the webpages had been set on specific topics. There is a button that had been implemented with flow effects as it is clicked to show a 'Funny' picture of one of the characters of 'The Mandalorian'. This is an example and proof of a button and pop up working in synchronisation to produce a final outcome. Towards the bottom of the page there is a weather API that will show the weather in London for the coming week. Although this is not linked to Star Wars 'The Mandalorian' it was put in to follow the specifications that were set on the assignment brief. There were not any suitable public API's that could have been introduced from the student's research that would provide any benefit or information towards the Star Wars webpage.

```

1 <!-- The Mandalorian | Index -->
2 <!-- The Mandalorian | Index -->
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68 <!-- The Mandalorian | Index -->
69 <!-- The Mandalorian | Index -->
70 <!-- The Mandalorian | Index -->
71 <!-- The Mandalorian | Index -->
72 <!-- The Mandalorian | Index -->
73 <!-- The Mandalorian | Index -->
74 <!-- The Mandalorian | Index -->
75 <!-- The Mandalorian | Index -->
76 <!-- The Mandalorian | Index -->
77 <!-- The Mandalorian | Index -->
78 <!-- The Mandalorian | Index -->
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93 <!-- The Mandalorian | Index -->
94 <!-- The Mandalorian | Index -->
95 <!-- The Mandalorian | Index -->
96 <!-- The Mandalorian | Index -->
97 <!-- The Mandalorian | Index -->
98 <!-- The Mandalorian | Index -->
99 <!-- The Mandalorian | Index -->
100 <!-- The Mandalorian | Index -->

```

Figure 1- The top half of the Index Page code.

```

46
47 <div class="weatherWidget" ></div> <!--Code containing the wheather API-->
48
49 <script>
50 window.weatherWidgetConfig = window.weatherWidgetConfig || {};
51 window.weatherWidgetConfig.push([
52   selector:"weatherWidget",
53   apiKey:"BAG7YXZ5hK4M4KQ8DF8G9IP",
54   location:"London, UK",
55   unitGroup:"metric",
56   forecastDays:5,
57   title:"London,UK",
58   showTitle:true,
59   showConditions:true
60 ]);
61
62 (function() {
63   var d = document, s = d.createElement('script');
64   s.src = 'https://www.visualcrossing.com/widgets/forecast-simple/weather-forecast-widget-simple.js';
65   s.setAttribute('data-timestamp', +new Date());
66   (d.head || d.body).appendChild(s);
67 })();
68 </script>
69 </div>
70 </body>

```

Figure 2- The bottom half of the Index Page code.

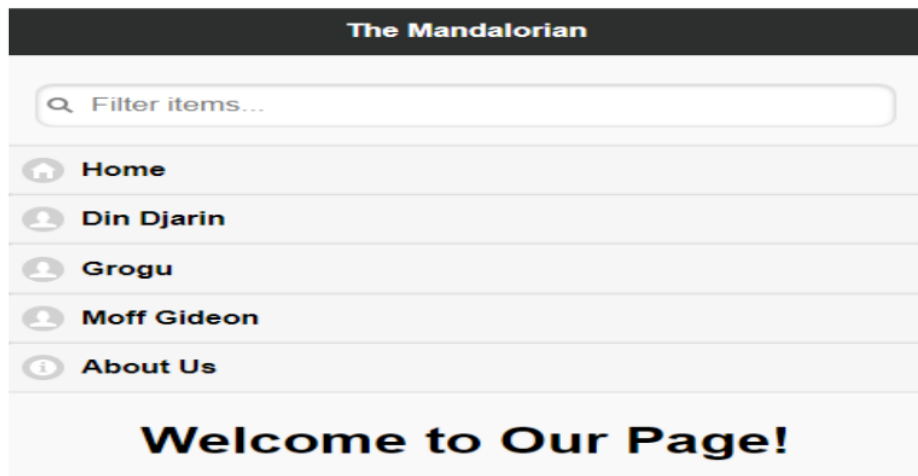
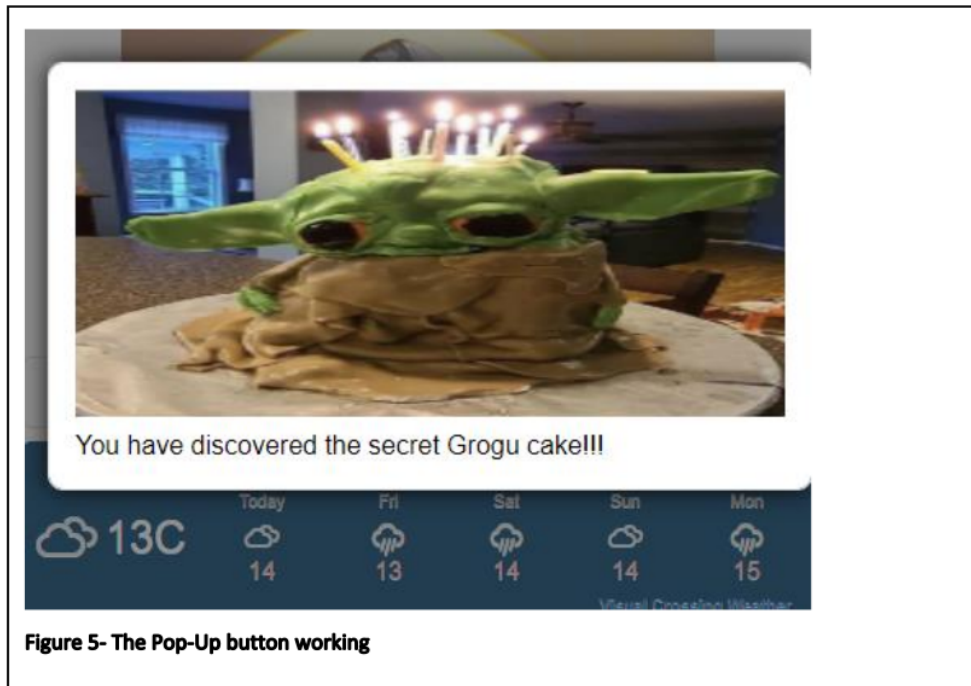
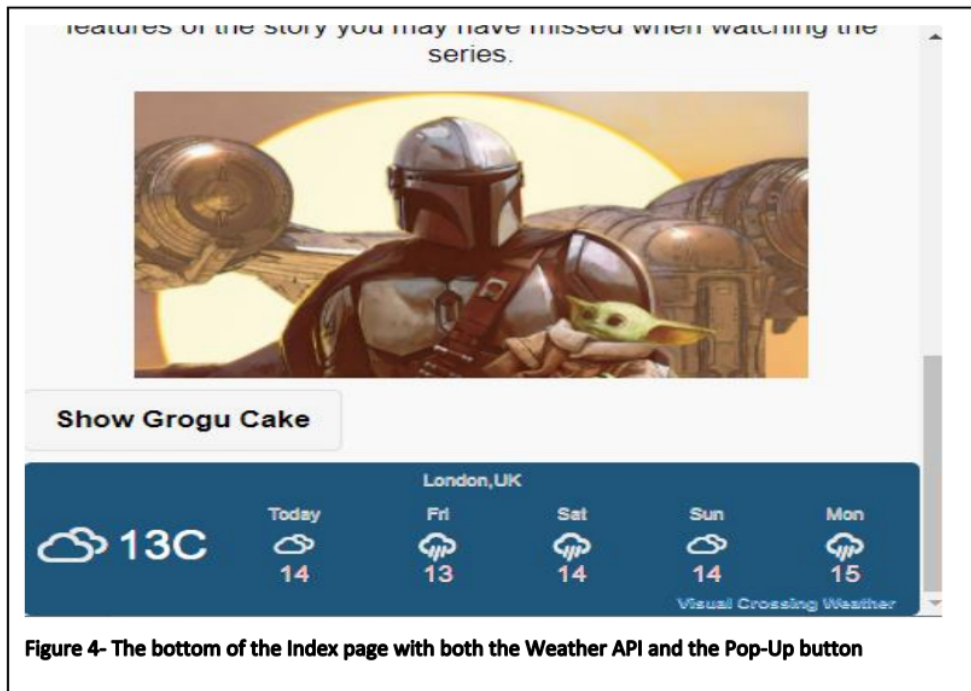


Figure 3- The Index page working.



Din Djarin

After the Index page, the Din Djarin page was created. All of the character profile pages are very similar in style and layout. There was suitable transitions and buttons implemented and this can be shown by figure 6.

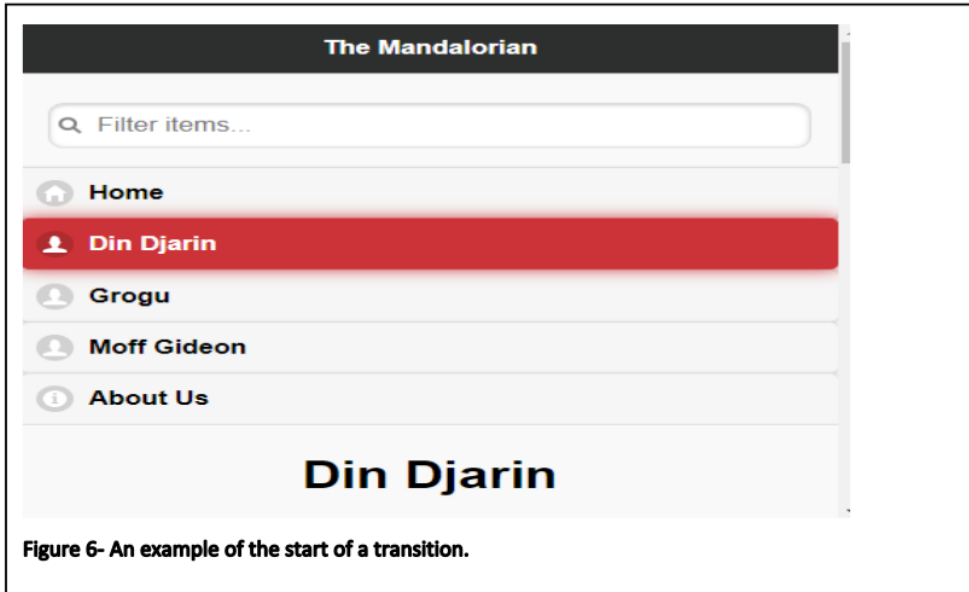


Figure 6- An example of the start of a transition.

The 'Flow' type transition was selected for all of the transitions between pages as the student felt that this was the best fitting for a Star Wars webpage.

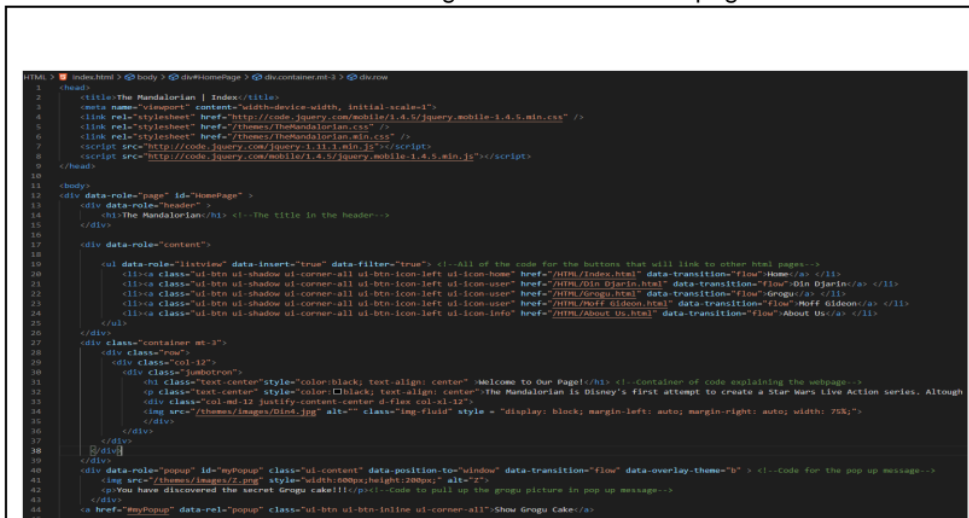


Figure 7- The top half of the Din Djarin Page code.

```

0      </div>
1    </div>
2  </div>
3 </div>
4 <div class="container mt-3">
5   <div class="row">
6     <div class="col-12">
7       <div class="jumbotron">
8         <h1 class="text-center" style="color:black; text-align: center;">Knight in Shining Armour</h1> <!--Container of context to character-->
9         <p class="text-center" style="color:black; text-align: center;">After saving Grogu from certain death, Din Djarin had been shunned by the Bounty Hunters' Guild
10        <div class="col-md-12 justify-content-center d-flex col-xl-12">
11          
12        </div>
13      </div>
14    </div>
15  </div>
16 </div>
17
18
19 </div>
20 </body>

```

Figure 8- The bottom half of the Din Djarin Page code.

Grogu

```

1 <!--
2 <title>The Mandalorian | Grogu</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="Grogu" >
13 <div data-role="header" >
14 <h1>The Mandalorian</h1> <!-- The title in the header -->
15 </div>
16
17 <div data-role="content">
18 <!-- All of the code for the buttons that will link to other html pages -->
19 <div class="ui-btm ui-shadow ui-corner-all ui-btm-icon-left ui-btm-icon-right" href="/html/index.html" data-transition="flow">Home</div>
20 <div class="ui-btm ui-shadow ui-corner-all ui-btm-icon-left ui-btm-icon-right" href="/html/Din Djarin.html" data-transition="flow">Din Djarin</div>
21 <div class="ui-btm ui-shadow ui-corner-all ui-btm-icon-left ui-btm-icon-right" href="/html/Grogu.html" data-transition="flow">Grogu</div>
22 <div class="ui-btm ui-shadow ui-corner-all ui-btm-icon-left ui-btm-icon-right" href="/html/Moff Gideon.html" data-transition="flow">Moff Gideon</div>
23 <div class="ui-btm ui-shadow ui-corner-all ui-btm-icon-left ui-btm-icon-right" href="/html/About Us.html" data-transition="flow">About Us</div>
24 </div>
25
26 <div class="container mt-3">
27 <div class="row">
28 <div class="col-12">
29 <div class="jumbotron">
30 <div class="text-center" style="color:black; text-align:center">Grogu</div> <!-- Container of context to character -->
31 <div class="text-center" style="color:black; text-align:center">He's stubborn</div> Din Djarin, on Grogu</div>
32 <div class="col-md-12 justify-content-center d-flex col-xl-12">
33 
34 </div>
35 </div>
36 </div>
37
38 <div class="container mt-3">
39 <div class="row">
40 <div class="col-12">
41 <div class="jumbotron">
42 <div class="text-center" style="color:black; text-align:center">Baby Yoda</div> <!-- Container of context to character -->
43 <div class="text-center" style="color:black; text-align:center">Grogu</div> Baby Yoda or The Child was born and raised at the Jedi Temple in the year 41 BBY, or
44 <div class="col-md-12 justify-content-center d-flex col-xl-12">
45 
46 </div>
47 </div>
48 </div>
49
50 </div>
51 </body>

```

Figure 9- The top half of the Grogu Page code.

```

51 </div>
52 </div>
53 <div class="container mt-3">
54 <div class="row">
55 <div class="col-12">
56 <div class="jumbotron">
57 <div class="text-center" style="color:black; text-align:center">The Jedi</div> <!-- Container of context to character -->
58 <div class="text-center" style="color:black; text-align:center">Within the final episode of Season 2, Grogu would be handed over to Luke Skywalker to be placed
59 <div class="col-md-12 justify-content-center d-flex col-xl-12">
60 
61 </div>
62 </div>
63 </div>
64 </div>
65
66 </div>
67 </body>

```

Figure 10- The bottom half of the Grogu Page code.

As can be seen in figures 9-10, the Grogu code is very similar to both the Moff Gideon and Din Djarin code.

Moff Gideon

```

1 <!--head-->
2 <title>The Mandalorian | Moff Gideon</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <!--body-->
12 <div data-role="page" id="Moff Gideon">
13 <div data-role="header">
14 <h1>The Mandalorian</h1> <!--The title in the header-->
15 </div>
16
17 <div data-role="content">
18 <ul data-role="listview" data-insert="true" data-filter="true"> <!--All of the code for the buttons that will link to other html pages-->
19 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/index.html" data-transition="fade">Home</a> </li>
20 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="fade">Din Djarin</a> </li>
21 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Grogu.html" data-transition="fade">Grogu</a> </li>
22 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Moff Gideon.html" data-transition="fade">Moff Gideon</a> </li>
23 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-left" href="/HTML/About Us.html" data-transition="fade">About Us</a> </li>
24 </ul>
25 </div>
26
27 <div class="container mt-3">
28 <div class="row">
29 <div class="col-12">
30 <div class="jumbotron">
31 <h1 class="text-center" style="color:black; text-align: center">Moff Gideon</h1> <!--Container of context to character-->
32 <p class="text-center" style="color:Chalk; text-align: center">"A friendly piece of advice: assume that I know everything." -Moff Gideon, to Din Djarin</p>
33 <div class="col-md-12 justify-content:center d-flex col-xl-12">
34 
35 </div>
36 </div>
37 </div>
38 </div>
39
40 <div class="container mt-3">
41 <div class="row">
42 <div class="col-12">
43 <div class="jumbotron">
44 <h1 class="text-center" style="color:black; text-align: center">Gideon</h1> <!--Container of context to character-->
45 <p class="text-center" style="color:Chalk; text-align: center">"It is currently unknown how Moff Gideon managed to get himself the Darksaber. The last person
46 <div class="col-md-12 justify-content:center d-flex col-xl-12">
47 
48 </div>
49 </div>
50 </div>
51 </div>

```

Figure 11- The top half of the Moff Gideon Page code.

```

51 </div>
52 </div>
53 </div>
54 <div class="container mt-3">
55 <div class="row">
56 <div class="col-12">
57 <div class="jumbotron">
58 <h1 class="text-center" style="color:black; text-align: center">The Darksaber</h1> <!--Container of context to character-->
59 <p class="text-center" style="color:Chalk; text-align: center">"It is currently unknown how Moff Gideon managed to get himself the Darksaber. The last person
60 <div class="col-md-12 justify-content:center d-flex col-xl-12">
61 
62 </div>
63 </div>
64 </div>
65 </div>
66 </div>
67
68 </div>
69 </body>

```

Figure 12- The bottom half of the Moff Gideon Page code.

About Us

```

1 <head>
2 <title>The Mandalorian | About Us</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="About Us" >
13   <div data-role="header" >
14     <h1>The Mandalorian</h1> <!--The title in the header-->
15   </div>
16   <div data-role="content">
17     <ul data-role="listview" data-insert="true" data-filter="true"> <!--All of the code for the buttons that will link to other html pages-->
18       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/Index.html" data-transition="flow">Home</a> </li>
19       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="flow">Din Djarin</a> </li>
20       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Grogu.html" data-transition="flow">Grogu</a> </li>
21       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Neil Giffon.html" data-transition="flow">Neil Giffon</a> </li>
22       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/HTML/About Us.html" data-transition="flow">About Us</a> </li>
23     </ul>
24   </div>
25   <div class="container mt-3">
26     <div class="row">
27       <div class="col-12">
28         <div class="jumbotron">
29           <h1 class="text-center" style="color:black; text-align: center">About Us</h1> <!--Container explaining who made the webpage-->
30           <p class="text-center" style="color:black; text-align: center">We are a group highly invested in the lore of Star Wars that wanted to create a website that w
31         </div>
32       </div>
33     </div>
34   </div>
35   <div class="container mt-3">
36     <div class="row">
37       <div class="col-12">
38         <div class="jumbotron">
39           <h1 class="text-center" style="color:black; text-align: center">Contact Us</h1> <!--Container of fake contact details-->
40           <p class="text-center" style="color:black; text-align: center">ThomasHowellsInc.
41             Marshall Avenue, Haverfordwest,
42             SA01 1BA, UK
43             Telephone: (08000) 123456</p>
44         </div>
45       </div>
46     </div>
47   </div>
48 </div>
49 </body>

```

Figure 13- The About Us Page code

This is the final page that will cover any questions that users may have about the webpages design and the creator's reason for making such a page. There is also a contact us section that has been filled with example information if the page were to be used in a real-world situation.

Conclusion

To conclude, the student believes that the skills gained from this assignment cannot only be applied in web development but in other aspects of developing too. The student took great pleasure in using jQuery mobile as they had not previously. The student believes that using jQuery mobile makes creating a mobile-enabled webpage a lot easier to understand and implement and would definitely use it again if they had the opportunity to do so.

References

Front Page Image- <https://volgainfotech.com/voice-assistant-application-development.html>

Figure 1- The top half of the index page code

```
HTML > index.html > body > div#HomePage > div.container.mt-3 > divrow
1 <head>
2 <title>The Mandalorian | Index</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="HomePage">
13 <div data-role="header">
14 <h1>The Mandalorian</h1> <!--The title in the header-->
15 </div>
16
17 <div data-role="content">
18
19 <ul data-role="listview" data-insert="true" data-filter="true"> <!--All of the code for the buttons that will link to other html pages-->
20 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/index.html" data-transition="flow">Home</a> </li>
21 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="flow">Din Djarin</a> </li>
22 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Grogu.html" data-transition="flow">Grogu</a> </li>
23 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Hoff Gideon.html" data-transition="flow">Hoff Gideon</a> </li>
24 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/HTML/About Us.html" data-transition="flow">About Us</a> </li>
25 </ul>
26
27 </div>
28 <div class="container mt-3">
29 <div class="row">
30 <div class="jumbotron">
31 <h1 class="text-center" style="color:black; text-align: center"> Welcome to Our Page!</h1> <!--Container of code explaining the webpage-->
32 <p class="text-center" style="color:black; text-align: center">The Mandalorian is Disney's first attempt to create a Star Wars Live Action series. Although it
33 <div class="col-md-12 justify-content-center d-flex col-xl-12">
34 
35 </div>
36 </div>
37 </div>
38 </div>
39
40 <div data-role="popup" id="myPopup" class="ui-content" data-position-to="window" data-transition="flow" data-overlay-theme="b"> <!--Code for the pop up message-->
41 
42 <p>You have discovered the secret Grogu cake!!!</p><!--Code to pull up the grogu picture in pop up message-->
43 </div>
44 <a href="#myPopup" data-rel="popup" class="ui-btn ui-btn-inline ui-corner-all">Show Grogu Cake</a>
45
46
```

Figure 2- The bottom half of the index page code

```

46
47 <div class="weatherWidget"></div> <!--Code containing the weather API-->
48
49 <script>
50 window.weatherWidgetConfig = window.weatherWidgetConfig || {};
51 window.weatherWidgetConfig.push({
52   selector:".weatherWidget",
53   apiKey:"8AG7YQZ5HGHWKQK3DFBGY3P",
54   location:"London, UK",
55   unitGroup:"metric",
56   forecastDays:5,
57   title:"London,UK",
58   showTitle:true,
59   showConditions:true
60 });
61
62 (function() {
63   var d = document, s = d.createElement('script');
64   s.src = "https://www.visualcrossing.com/widgets/forecast-simple/weather-forecast-widget-simple.js";
65   s.setAttribute('data-timestamp', +new Date());
66   (d.head || d.body).appendChild(s);
67 })();
68 </script>
69 </div>
70 </body>

```

Figure 3- The Index page working



Figure 4- The bottom of the Index page with both the Weather API and Pop-Up button

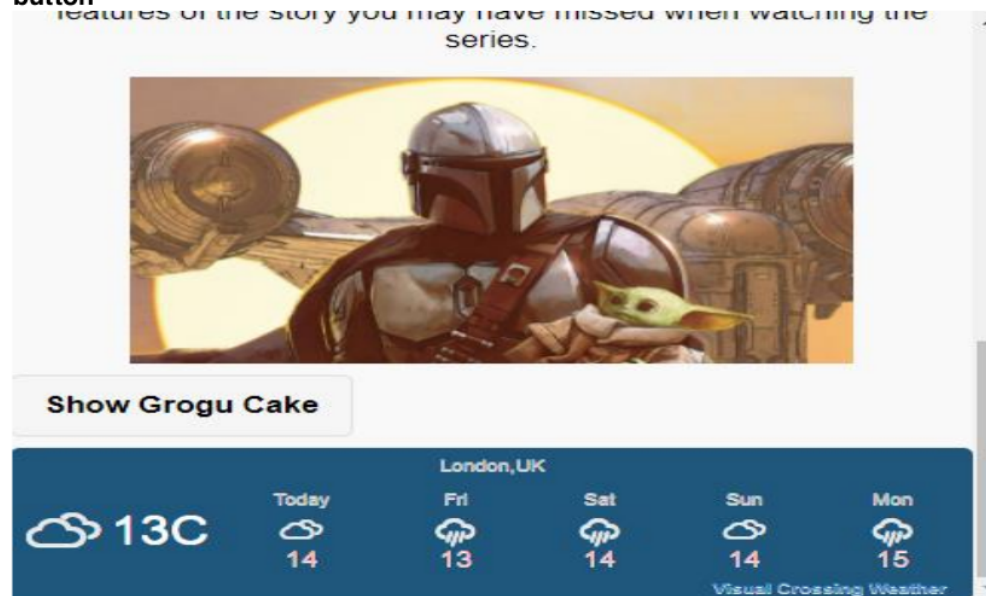


Figure 5- The Pop-up button working



Figure 6- An example of the start of a transition



Figure 7- The top half of the Din Djarin page code

```

1  <html>
2  <head>
3    <title>The Mandalorian | Index</title>
4    <meta name="viewport" content="width=device-width, initial-scale=1">
5    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
6    <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7    <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8  </head>
9
10 <body>
11
12 <div data-role="page" id="HomePage" >
13   <div data-role="header">
14     <h1>The Mandalorian</h1> <!-- The title in the header -->
15   </div>
16
17   <div data-role="content">
18
19     <ul data-role="listview" data-insert="true" data-filter="true"> <!-- All of the code for the buttons that will link to other html pages -->
20       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/index.html" data-transition="flow">Home</a> </li>
21       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="flow">Din Djarin</a> </li>
22       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Grogu.html" data-transition="flow">Grogu</a> </li>
23       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Weff Gideon.html" data-transition="flow">Weff Gideon</a> </li>
24       <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/HTML/About Us.html" data-transition="flow">About Us</a> </li>
25     </ul>
26
27     <div class="container mt-3">
28       <div class="row">
29         <div class="col-12">
30           <div class="jumbotron">
31             <h1 class="text-center" style="color:black; text-align: center">Welcome to Our Page!</h1> <!-- Container of code explaining the webpage -->
32             <p class="text-center" style="color:black; text-align: center">The Mandalorian is Disney's first attempt to create a Star Wars live action series. Although it
33               
34             </div>
35           </div>
36
37         <div>
38           <div data-role="popup" id="myPopup" class="ui-content" data-position-to="window" data-transition="flow" data-overlay-theme="b"> <!-- Code for the pop up message -->
39             <p>You have discovered the secret Grogu cake!!</p> <!-- Code to pull up the grogu picture in pop up message -->
40             <div>
41               <a href="#myPopup" data-rel="popup" class="ui-btn ui-btn-inline ui-corner-all">Show Grogu Cake</a>
42             </div>
43           </div>
44
45         </div>
46       </div>
47     </div>
48   </div>
49 </body>

```

Figure 8- The bottom half of the Din Djarin page code

```

1  </div>
2  </div>
3  </div>
4  </div>
5  <div class="container mt-3">
6    <div class="row">
7      <div class="col-12">
8        <div class="jumbotron">
9          <h1 class="text-center" style="color:black; text-align: center">Knight in Shining Armour</h1> <!-- Container of context to character -->
10         <p class="text-center" style="color:black; text-align: center">After saving Grogu from certain death, Din Djarin had been shunned by the Bounty Hunters' Guild
11         <div class="col-md-12 justify-content-center d-flex col-12">
12           
13         </div>
14       </div>
15     </div>
16   </div>
17 </div>
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97 </div>
98 </div>
99 </div>
100 </div>

```

Figure 9- The top half of the Groggu page code

```

1 <head>
2 <title>The Mandalorian | Groggu</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="Groggu">
13 <div data-role="header">
14 <h1>The Mandalorian</h1> <!--The title in the header-->
15 </div>
16
17 <div data-role="content">
18 <ul data-role="listview" data-insert="true" data-filter="true"> <!--All of the code for the buttons that will link to other html pages-->
19 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/index.html" data-transition="flow">Home</a> </li>
20 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="flow">Din Djarin</a> </li>
21 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Groggu.html" data-transition="flow">Groggu</a> </li>
22 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Hoff Gideon.html" data-transition="flow">Hoff Gideon</a> </li>
23 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/HTML/About Us.html" data-transition="flow">About Us</a> </li>
24 </ul>
25 </div>
26
27 <div class="container mt-3">
28 <div class="row">
29 <div class="col-12">
30 <div class="jumbotron">
31 <h1 class="text-center" style="color:black; text-align: center">Groggu</h1> <!--Container of context to character-->
32 <p class="text-center" style="color:□black; text-align: center">He's stubborn <!--Din Djarin, on Groggu/p>
33 <div class="col-md-12 justify-content-center d-flex col-xl-12">
34 
35 </div>
36 </div>
37 </div>
38 </div>
39 </div>
40 <div class="container mt-3">
41 <div class="row">
42 <div class="col-12">
43 <div class="jumbotron">
44 <h1 class="text-center" style="color:black; text-align: center">Baby Yoda</h1> <!--Container of context to character-->
45 <p class="text-center" style="color:□black; text-align: center">Groggu(Baby Yoda or The Child) was born and raised at the Jedi Temple in the year 41 BBY, 6-
46 <div class="col-md-12 justify-content-center d-flex col-xl-12">
47 
48 </div>
49 </div>
50 </div>
51 </div>
52 </div>

```

Figure 10- The bottom half of the Groggu page code

```

51 </div>
52 </div>
53 <div class="container mt-3">
54 <div class="row">
55 <div class="col-12">
56 <div class="jumbotron">
57 <h1 class="text-center" style="color:black; text-align: center">The Jedi</h1> <!--Container of context to character-->
58 <p class="text-center" style="color:□black; text-align: center">Within the final episode of Season 2, Groggu would be handed over to Luke Skywalker to be placed
59 <div class="col-md-12 justify-content-center d-flex col-xl-12">
60 
61 </div>
62 </div>
63 </div>
64 </div>
65 </div>
66 </div>
67 </div>
68 </body>

```

Figure 11- The top half of the Moff Gideon page code

```

1 <!-- Head -->
2 <title>The Mandalorian | Moff Gideon</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="Moff Gideon">
13 <div data-role="header">
14 <h1>The Mandalorian</h1> <!-- The title in the header -->
15 </div>
16
17 <div data-role="content">
18 <!-- data-role="listview" data-insert="true" data-filter="true" --> <!-- All of the code for the buttons that will link to other HTML pages -->
19 <div class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/html/index.html" data-transition="flow">Home</div>
20 <div class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/html/Din Djarin.html" data-transition="flow">Din Djarin</div>
21 <div class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/html/Grogu.html" data-transition="flow">Grogu</div>
22 <div class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/html/Moff Gideon.html" data-transition="flow">Moff Gideon</div>
23 <div class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/html/About Us.html" data-transition="flow">About Us</div>
24 </div>
25
26
27
28 <div class="container mt-3">
29 <div class="row">
30 <div class="col-12">
31 <div class="jumbotron">
32 <h1 class="text-center" style="color:black; text-align: center;">Moff Gideon</h1> <!-- Container of context to character -->
33 <p class="text-center" style="color:black; text-align: center;">"A friendly piece of advice: assume that I know everything." -Moff Gideon, to Din Djarin</p>
34 <div class="col-md-12 justify-content-center d-flex col-12">
35 
36 </div>
37 </div>
38 </div>
39 </div>
40
41 <div class="container mt-3">
42 <div class="row">
43 <div class="col-12">
44 <div class="jumbotron">
45 <h1 class="text-center" style="color:black; text-align: center;">Gideon</h1> <!-- Container of context to character -->
46 <p class="text-center" style="color:black; text-align: center;">"Gideon was originally an officer in the Imperial Security Bureau. He would go onto claim the D."
47 <div class="col-md-12 justify-content-center d-flex col-12">
48 
49 </div>
50 </div>
51 </div>
52 </div>

```

Figure 12- The bottom half of the Moff Gideon page code

```

52 </div>
53 </div>
54 <div class="container mt-3">
55 <div class="row">
56 <div class="col-12">
57 <div class="jumbotron">
58 <h1 class="text-center" style="color:black; text-align: center;">The Darksaber</h1> <!-- Container of context to character -->
59 <p class="text-center" style="color:black; text-align: center;">It is currently unknown how Moff Gideon managed to get himself the Darksaber. The last person
60 <div class="col-md-12 justify-content-center d-flex col-12">
61 
62 </div>
63 </div>
64 </div>
65 </div>
66 </div>
67
68 </div>
69 </body>

```

Figure 13- The About Us page code

```

1 <head>
2 <title>The Mandalorian | About Us</title>
3 <meta name="viewport" content="width=device-width, initial-scale=1">
4 <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
5 <link rel="stylesheet" href="/themes/TheMandalorian.css" />
6 <link rel="stylesheet" href="/themes/TheMandalorian.min.css" />
7 <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
8 <script src="http://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>
9 </head>
10
11 <body>
12 <div data-role="page" id="About Us" >
13 <div data-role="header" >
14 <h1>The Mandalorian</h1> <!--The title is the header-->
15 </div>
16 <div data-role="content">
17 <ul data-role="listview" data-insert="true" data-filter="true"> <!--All of the code for the buttons that will link to other html pages-->
18 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-home" href="/HTML/Index.html" data-transition="flow">Home</a> </li>
19 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Din Djarin.html" data-transition="flow">Din Djarin</a> </li>
20 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Grogu.html" data-transition="flow">Grogu</a> </li>
21 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-user" href="/HTML/Moff Gideon.html" data-transition="flow">Moff Gideon</a> </li>
22 <li><a class="ui-btn ui-shadow ui-corner-all ui-btn-icon-left ui-icon-info" href="/HTML/About Us.html" data-transition="flow">About Us</a> </li>
23 </ul>
24
25 <div class="container mt-3">
26 <div class="row">
27 <div class="col-12">
28 <div class="jumbotron">
29 <h1 class="text-center" style="color:black; text-align: center">About Us</h1> <!--Container explaining who made the webpage-->
30 <p class="text-center" style="color:black; text-align: center">We are a group highly invested in the lore of Star Wars that wanted to create a website that w
31 </div>
32 </div>
33 </div>
34 </div>
35 <div class="container mt-3">
36 <div class="row">
37 <div class="col-12">
38 <div class="jumbotron">
39 <h1 class="text-center" style="color:black; text-align: center">Contact Us</h1> <!--Container of fake contact details-->
40 <p class="text-center" style="color:black; text-align: center">ThomasHowellsInc,
41 Marshall Avenue, Haverfordwest,
42 SA61 1BA, UK
43 Telephone: (0800) 123456</p>
44 </div>
45 </div>
46 </div>
47 </div>
48 </div>
49 </body>

```

Bibliography

- [1] Themeroller.jquerymobile.com. 2021. *ThemeRoller | jQuery Mobile*. [online] Available at: <<https://themeroller.jquerymobile.com/>> [Accessed 20 May 2021].
- [2] Quanzhanketang.com. 2021. *jQuery Mobile Tutorial*. [online] Available at: <<https://www.quanzhanketang.com/jquerymobile/default.html>> [Accessed 20 May 2021].

Web and Mobile Technologies report by Thomas Howells

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

Instructor

53/100

PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12

PAGE 13

PAGE 14

PAGE 15

PAGE 16

PAGE 17

PAGE 18

PAGE 19

GRADING FORM: ASSIGNMENT2

THOMAS HOWELLS

53

COGNITIVE/INTELLECTUAL

Analysis of the technical development of the application (eg how does your Javascript interact with the JSON file?) Why did you take the approach you did?



The report offers an attempt at critical evaluation and analysis of concepts and principles, tending towards description. The student has provided very little evidence explaining how the JavaScript interacts with the JSON files or why they choose the approach they took.

6

KNOWLEDGE AND UNDERSTANDING

Annotated code listing (a code listing of relevant sections clearly commented is sufficient)



The code is suitable and demonstrates adequate knowledge and critical understanding of the well-established concepts and principles of web and mobile technologies, with a few gaps in the selection of material.

7



The website contains the following requirements of the assignment: Created a 3 page site with navigation. The site demonstrates a number of mobile features. Implemented a customised style. Made an AJAX call to a public JSON API, however there is no evidence of a AJAX call to a local JSON file The site is readable, with some navigation and layout appropriate to the site. The practical work is mainly consistent, accurate and logical. The look and feel of the website shows a good level of knowledge and understanding. Overall, the student has used good and appropriate applications of established methods and techniques for developing a mobile website.

40