Assignment: Create a web site using JQM (jQuery Mobile)
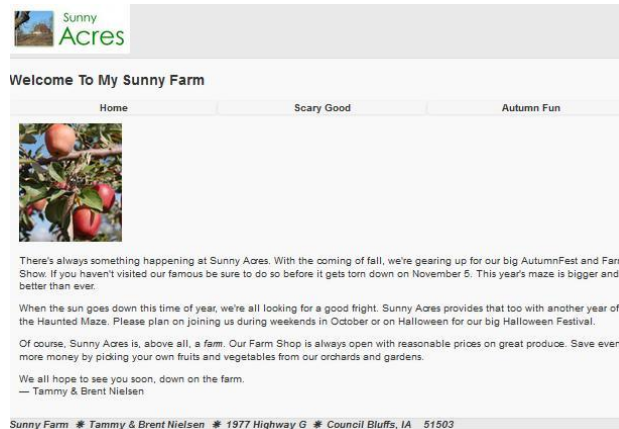
CIM 141.1 Creating a Web Page
Instructor: Florence Lee

Before start working on this assignment, make sure checkout/review the Intro to Mobile Web Design PowerPoint posted on Blackboard.

Notes:

For this assignment, we are going to use the three data files (home, haunted and maze) from Tutorial 3 Sunny Acres to create a web site using JQuery mobile. The final page will look like the following screen

You have learned how to create a web site using HTM: create a home page and other information/supported pages. These pages are all individual HTML pages and they are linked using a navigation tag.

JQuery mobile refers the linked file in the same HTML file. So, to code a jQuery mobile web site, you only created one HTML file, add the other pages we want to link at the bottom section of the HTML file.

JQM online resources:

http://iviewsource.com/codingtutorials/5-minute-guide-to-a-mobile-app-with-jquery-mobile/
http://demos.jquerymobile.com/1.0a3/docs/pages/docs-pages.html
http://demos.jquerymobile.com/1.2.1/docs/pages/page-anatomy.html

Steps to do the web mobile assignment:

A: Download Data file:

1. Create a folder in your hard drive or Flash drive. Preferably in the folder you have all the tutorial assignments. Name the folder **jqm.** Download the *jqm data files.zip*; extract the zipped file to the JQM folder you just created.

   Note: *jqm data files.zip* is posted on BB Assignments.

B: Code the home page:

1. Open a new file using your favorite text editor, and code the tags found in Screen Capture 1 into your new file and save the file as **home.htm**


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <title>JQM web assignment</title>
</head>
<body>
</body>
</html>
```

2. In order this app will be view-friendly in difference devices, and the app can set the width of the device screen, we need to add the following **viewport tag** in the head section. (Hint: add to line 6)

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

3. We are going to add the JQuery libraries directly from CDN, **C**ontent **D**elivery **N**etwork. So we need to add the following codes to the head section. These codes were copy from the jQuery Mobile's download page.

```
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.4/jquery.mobile-1.4.4.min.css"> <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.4.4/jquery.mobile-1.4.4.min.js"></script>
```

Save the file, and see below Screen Capture 2 for reference.

Screen Capture 2

4. Now let's code the first page which is the home page. First we add the following **header** and **nav** tags to the body section. (Hint: add to line 12-27)

```
<!-- Start of home page -->
<div data-role="page" id="home">
    <div>
        <header data-role='header'><img src="farmlogo_200x84.png" alt="farm logo"></header>
        <h2>Welcome To My Sunny Farm</h2>
    </div><!--/header -->

<div data-role="navbar">
    <ul>
        <a href="#" data-role="button">Home</a>
        <a href="#haunted" data-role="button">Scary Good</a>
        <a href="#maze" data-role="button">Autumn Fun</a>
    </ul>
</div> <!--/nav -->
</div> <!--/home page -->
```

Save the file, and see below Screen Capture 3 for reference.

```
home.htm
1      <!DOCTYPE html>
2      <html lang="en">
3      <head>
4          <meta charset="utf-8" />
5          <title>JQM web assignment</title>
6          <meta name="viewport" content="width=device-width, initial-scale=1">
7          <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.4/jquery.mobile-1.4.4.min.css">
8          <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
9          <script src="http://code.jquery.com/mobile/1.4.4/jquery.mobile-1.4.4.min.js"></script>
10     </head>
11     <body>
12     <!-- Start of home page -->
13     <div data-role="page" id="home">
14         <div>
15             <header data-role='header'><img src="farmlogo_200x84.png" alt="farm logo"></header>
16             <h2>Welcome To My Sunny Farm</h2>
17         </div><!--/header -->
18
19         <div data-role="navbar">
20           <ul>
21           <a href="#" data-role="button">Home</a>
22           <a href="#haunted" data-role="button">Scary Good</a>
23           <a href="#maze" data-role="button">Autumn Fun</a>
24           </ul>
25         </div> <!--/nav -->
26
27     </div> <!--/home page -->
28     </body>
29     </html>
```

5. Add the following **content div tag** and **image tag** below the **nav tag**. (Line 27 & 29)

```
<div data-role="main" class="ui-content">
    <img src="farm.png" alt="farm photo"/>
    </div> <!--/content -->
```

6. Add the home page contents:

Open the home.txt, copy the content paragraphs and paste them under the ** (**Hint: press enter to add a line, and paste them to line 29-41)

Note: Please copy carefully, make sure include the tag brackets.

Save the file. And see below Screen Capture 4 for reference.

```
23             <a href="#maze" data-role="button">Autumn Fun</a>
24           </ul>
25         </div> <!--/nav -->
26
27         <div data-role="main" class="ui-content">
28             <img src="farm.png" alt="farm photo"/>
29             <p>
30                 There's always something happening at Sunny Acres. With the coming of fall, we're gearing up
                    for our big AutumnFest and Farm Show. If you haven't visited our famous be sure to do so
                    before it gets torn down on November 5. This year's maze is bigger and better than ever.
31             </p>
32             <p>
33                 When the sun goes down this time of year, we're all looking for a good fright. Sunny Acres
                    provides that too with another year of the Haunted Maze.  Please plan on joining us during
                    weekends in October or on Halloween for our big Halloween Festival.
34             </p>
35             <p>
36                 Of course, Sunny Acres is, above all, a <em>farm</em>. Our Farm Shop is always open with
                    reasonable prices on great produce. Save even more money by picking your own fruits and
                    vegetables from our orchards and gardens.
37             </p>
38             <p>
39                 We all hope to see you soon, down on the farm.<br />
40                 &mdash; Tammy &amp; Brent Nielsen
41             </p>
42         </div> <!--/content -->
43
44     </div> <!--/home page -->
45     </body>
46     </html>
```
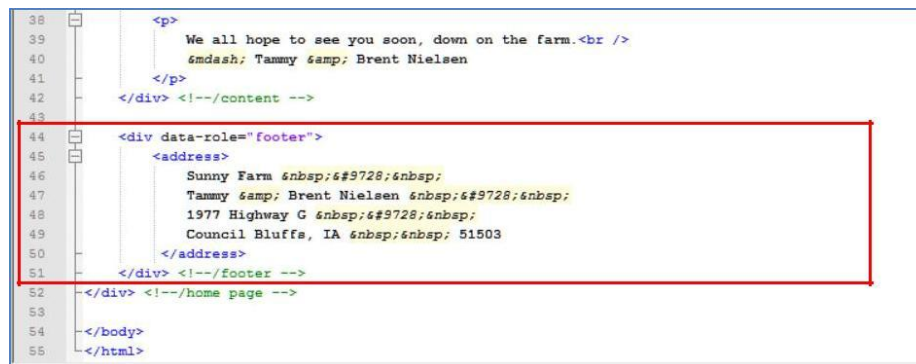
7. Add the following footer. (Hint: add to line 44-51)

```
<div data-role="footer">
    <address>
        Sunny Farm  &#9728; 

        Tammy &amp; Brent Nielsen  &#9728; 
        1977 Highway G  &#9728; 

        Council Bluffs, IA    51503
    </address>
</div> <!--/footer -->
```
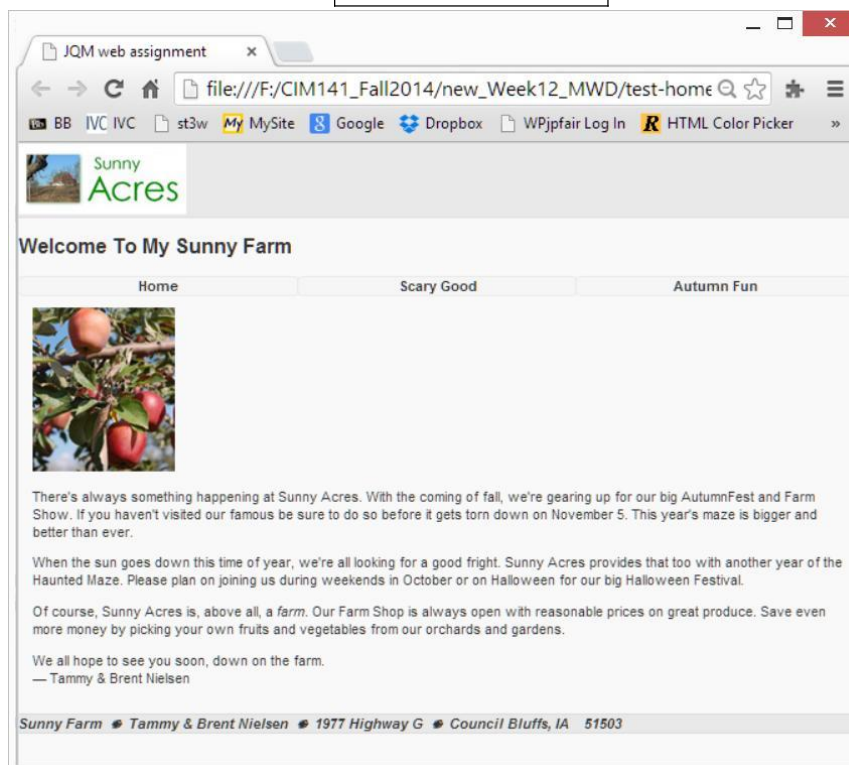
Save the file. And see below Screen Capture 5 for reference.

Screen Capture 5

8. Now you are done coding for the home page, preview it using any browser. The page should look like screen capture 6 below.

Screen Capture 6

9. Do the following tests:
   - Resize the browser's window; the screen should be responsive. The contents should respond to the resize window on a desktop screen.
   - Click the **Scary Good** and **Autumn Fun** links; they do not work because we did not code these two pages yet.

C: Add the second page and the third page:

1. Now we are going to code the Scary Good and Autumn Fun pages, which we will name **haunted** and **maze.** We are going to add them to the bottom of the home page.

2. Copy the first page/homepage codes, (the codes right after the <body> tag, <!-- Start of home page --> to the end of the footer , before the <body> tag.) (Hint: see screen capture 3, 4 & 5, line 12 to line 52.)

3. Add an empty line above the <body> tag; paste the codes you just copied on the line before the <body> tag. (line 54)

   Save the file and see screen capture 7 for reference.

   Screen Capture 7

```
51        </div> <!--/footer -->
52   </div> <!--/home page -->
53
54   <!-- Start of home page -->
55   <div data-role="page" id="home">
56       <div>
57           <header data-role='header'><img src="farmlogo_200x84.png" alt="farm logo"></header>
58           <h2>Welcome To My Sunny Farm</h2>
59       </div><!--/header -->
60
61       <div data-role="navbar">
62         <ul>
63           <a href="#" data-role="button">Home</a>
64           <a href="#haunted" data-role="button">Scary Good</a>
65           <a href="#maze" data-role="button">Autumn Fun</a>
66         </ul>
67       </div> <!--/nav -->
68
69       <div data-role="main" class="ui-content">
70           <img src="farm.png" alt="farm photo"/>
71           <p>
72               There's always something happening at Sunny Acres. With the coming of fall, we're gearing
                 up for our big AutumnFest and Farm Show. If you haven't visited our famous be sure to do
                 so before it gets torn down on November 5. This year's maze is bigger and better than ever.
73           </p>
74           <p>
75               When the sun goes down this time of year, we're all looking for a good fright. Sunny
                 Acres provides that too with another year of the Haunted Maze.  Please plan on joining us
                 during weekends in October or on Halloween for our big Halloween Festival.
76           </p>
77           <p>
78               Of course, Sunny Acres is, above all, a <em>farm</em>. Our Farm Shop is always open with
                 reasonable prices on great produce. Save even more money by picking your own fruits and
                 vegetables from our orchards and gardens.
79           </p>
80           <p>
81               We all hope to see you soon, down on the farm.<br />
82               &mdash; Tammy &amp; Brent Nielsen
83           </p>
84       </div> <!--/content -->
85
86       <div data-role="footer">
87           <address>
88               Sunny Farm  &#9728; 
89               Tammy &amp; Brent Nielsen  &#9728; 
90               1977 Highway G  &#9728; 
91               Council Bluffs, IA    51503
92           </address>
93       </div> <!--/footer -->
94   </div> <!--/home page -->
95   </body>
96   </html>
```

4. On the section you just copied, change the command line <!-- Start of home page --> to **<!-- Start of haunted page -->**. And change <div data-role="page" id="home"> to **<div data-role="page" id="haunted">** (line 54 & 55.)

5. Change the nav tag as follow: (line 63-65)

```
<div data-
    role="navbar"> <ul>
            <a href="#home" data-role="button">Home</a>
            <a href="#" data-role="button">Scary Good</a>
            <a href="#maze" data-role="button">Autumn Fun</a>
        </ul>
    </div> <!--/nav -->
```

6. Change **** to **** (Hint line 70).

7. Open the haunted.txt file on a text editor, copy the content paragraphs.

8. Replace the content paragraph of home page (line 71-83) with the two content paragraphs of haunted page you just copied.
   Hint: Paste the copies text after ****

9. Change the comment line **</div> <!--/home page -->** to **</div> <!--/haunted page -->**

10. See screen capture 8 below for visual instructions no.4 to no.9

Screen Capture 8
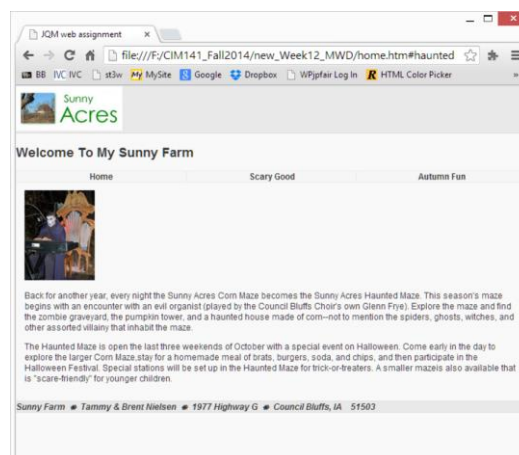
```
51        </div> <!--/footer -->
52    </div> <!--/home page -->
53
54        <!-- Start of home page -->
55    <div data-role="page" id="home">
56        <div>
57            <header data-role='header'><img src="farmlogo
58            <h2>Welcome To My Sunny Farm</h2>
59        </div><!--/header -->
60
61        <div data-role="navbar">
62            <ul>
63                <a href="#" data-role="button">Home</a>
64                <a href="#haunted" data-role="button">Scary Good</a>
65                <a href="#maze" data-role="button">Autumn Fun</a>
66            </ul>
67        </div> <!--/nav -->
68
69        <div data-role="main" class="ui-content">
70            <img src="farm.png" alt="farm photo"/>
71            <p>
72                There's always something happening at Sunny Acres. With the coming of fall, we're gearing
                   up for our big AutumnFest and Farm Show. If you haven't visited our famous be sure to do
                   so before it gets torn down on November 5. This year's maze is bigger and better than ever.
73            </p>
74            <p>
75                When the sun goes down this time of year, we're all looking for a good fright. Sunny
                   Acres provides that too with another year of the Haunted Maze.  Please plan on joining us
                   during weekends in October or on Halloween for our big Halloween Festival.
76            </p>
77            <p>
78                Of course, Sunny Acres is, above all, a <em>farm</em>. Our Farm Shop is always open with
                   reasonable prices on great produce. Save even more money by picking your own fruits and
                   vegetables from our orchards and gardens.
79            </p>
80            <p>
81                We all hope to see you soon, down on the farm.<br />
82                &mdash; Tammy &amp; Brent Nielsen
83            </p>
84        </div> <!--/content -->
85
86        <div data-role="footer">
87            <address>
88                Sunny Farm  &#9728; 
89                Tammy &amp; Brent Nielsen  &#9728;&
90                1977 Highway G  &#9728; 
91                Council Bluffs, IA    51503
92            </address>
93        </div> <!--/footer -->
94    </div> <!--/home page -->
95    </body>
96    </html>
```

Save the file and see screen capture 9 below for reference.

```
51          </div> <!--/footer -->
52     </div> <!--/home page -->
53
54     <!-- Start of haunted page -->
55     <div data-role="page" id="haunted">
56         <div>
57             <header data-role='header'><img src="farmlogo_200x84.png" alt="farm logo"
                ></header>
58             <h2>Welcome To My Sunny Farm</h2>
59         </div><!--/header -->
60
61         <div data-role="navbar">
62           <ul>
63             <a href="#home" data-role="button">Home</a>
64             <a href="#" data-role="button">Scary Good</a>
65             <a href="#maze" data-role="button">Autumn Fun</a>
66           </ul>
67         </div> <!--/nav -->
68
69         <div data-role="main" class="ui-content">
70             <img src="haunted.png" alt="haunted photo"/>
71             <p>
72                 Back for another year, every night the Sunny Acres Corn Maze becomes the
                    Sunny Acres Haunted Maze. This season's maze begins with an encounter with
                    an evil organist (played by the Council Bluffs Choir's own Glenn Frye).
                    Explore the maze and find the zombie graveyard, the pumpkin tower, and a
                    haunted house made of corn--not to mention the spiders, ghosts, witches, and
                    other assorted villainy that inhabit the maze.
73             </p>
73             </p>
74             <p>
75                 The Haunted Maze is open the last three weekends of October with a special
                    event on Halloween. Come early in the day to explore the larger Corn
                    Maze,stay for a homemade meal of brats, burgers, soda, and chips, and then
                    participate in the Halloween Festival. Special stations will be set up in
                    the Haunted Maze for trick-or-treaters. A smaller mazeis also available that
                    is "scare-friendly" for younger children.
76             </p>
77         </div> <!--/content -->
78
79         <div data-role="footer">
80             <address>
81                 Sunny Farm  &#9728; 
82                 Tammy &amp; Brent Nielsen  &#9728; 
83                 1977 Highway G  &#9728; 
84                 Council Bluffs, IA    51503
85             </address>
86         </div> <!--/footer -->
87     </div> <!--/haunted page -->
88
89     </body>
90     </html>
```

11. Now you are done coding for the haunted page. Preview it using any browser. The page should look like screen capture 10 below.

12. Click the Scary link; resize the screen window to see the responsive effect. Click the Home link; it should link to the home page.

Tips: If the Scary Good link does not work, check your spelling on the coding you just have modified.

13. To complete this assignment, we need to add the third page/part which is the maze page, which will link to the Autumn Fun.

14. Repeat step no.12-19, using the paragraphs you copy from the maze.txt.

Save the file and see screen capture 11 below for reference.

Screen Capture 11

Note: the red boxed indicated the changes after you copy from the coding of home section (line 12-52)

15. Now you have completed this assignment. Test your file on a browser and check the links to make sure the three links are working properly.

16. Upload your JQM folder to st3w.ivc.edu, (home.htm and the supported images file)

17. Update the Mobile web design assignment link on your electronic portfolio.

18. After upload you files, test your page on your desktop computer or your mobile devices.

Note: Please check out the Coding *reference for home.htm.pdf **for reference***