

# Assignment: Create a web site using JQM (jQuery Mobile)

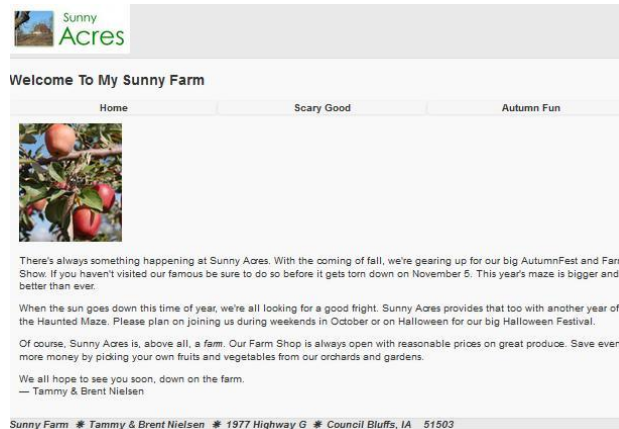
## CIM 141.1 Creating a Web Page

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 HTML: 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**

### Screen Capture 1

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, Content Delivery Network. 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'></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.

### Screen Capture 3

```

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"></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">
  
</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.

### Screen Capture 4

```

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   
29   <p>
30     There's always something happening at Sunny Acres. With the coming of fall, we're gearing up
31     for our big AutumnFest and Farm Show. If you haven't visited our famous be sure to do so
32     before it gets torn down on November 5. This year's maze is bigger and better than ever.
33   </p>
34   <p>
35     When the sun goes down this time of year, we're all looking for a good fright. Sunny Acres
36     provides that too with another year of the Haunted Maze. Please plan on joining us during
37     weekends in October or on Halloween for our big Halloween Festival.
38   </p>
39   <p>
40     Of course, Sunny Acres is, above all, a <em>farm</em>. Our Farm Shop is always open with
41     reasonable prices on great produce. Save even more money by picking your own fruits and
42     vegetables from our orchards and gardens.
43   </p>
44   <p>
45     We all hope to see you soon, down on the farm.<br />
46     &mdash; Tammy &amp; Brent Nielsen
47   </p>
48 </div><!--/content -->
49
50 </div><!--/home page -->
51 </body>
52 </html>

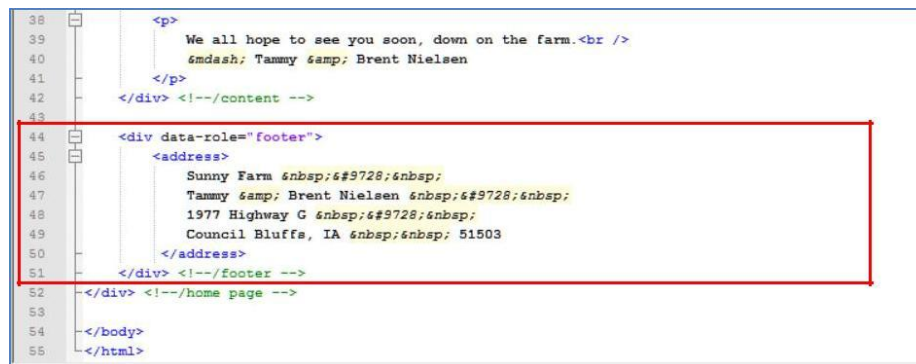
```

7. Add the following footer. (Hint: add to line 44-51)

```
<div data-role="footer">
  <address>
    Sunny Farm &#9728;&#9728;
    Tammy & Brent Nielsen &#9728;&#9728;
    1977 Highway G &#9728;&#9728;
    Council Bluffs, IA &#9728;&#9728; 51503
  </address>
</div> <!--/footer -->
```

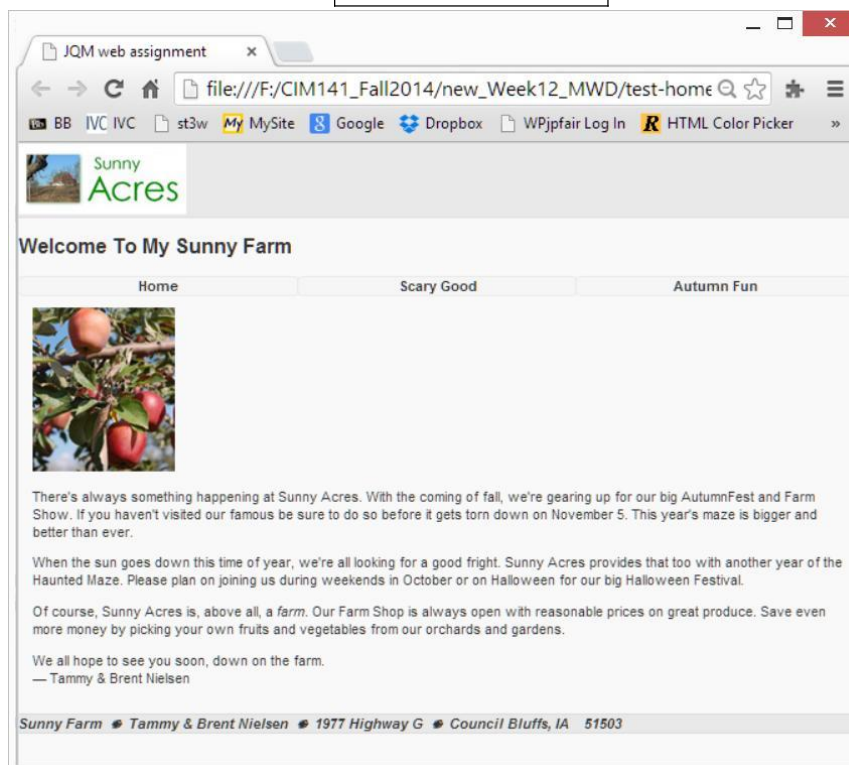
Save the file. And see below Screen Capture 5 for reference.

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'></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     
71     <p>
72       There's always something happening at Sunny Acres. With the coming of fall, we're gearing
73       up for our big AutumnFest and Farm Show. If you haven't visited our famous be sure to do
74       so before it gets torn down on November 5. This year's maze is bigger and better than ever.
75     </p>
76     <p>
77       When the sun goes down this time of year, we're all looking for a good fright. Sunny
78       Acres provides that too with another year of the Haunted Maze. Please plan on joining us
79       during weekends in October or on Halloween for our big Halloween Festival.
80     </p>
81     <p>
82       Of course, Sunny Acres is, above all, a <em>farm</em>. Our Farm Shop is always open with
83       reasonable prices on great produce. Save even more money by picking your own fruits and
84       vegetables from our orchards and gardens.
85     </p>
86     <p>
87       We all hope to see you soon, down on the farm.<br />
88       &mdash; Tammy & Brent Nielsen
89     </p>
90   </div> <!--/content -->
91
92   <div data-role="footer">
93     <address>
94       Sunny Farm &#9728;&#9728;
95       Tammy & Brent Nielsen &#9728;&#9728;
96       1977 Highway G &#9728;&#9728;
97       Council Bluffs, IA &#9728;&#9728; 51503
98     </address>
99   </div> <!--/footer -->
100 </div> <!--/home page -->
101
102 </body>
103 </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

No. 4:  
Change these two lines to:

```
<!-- Start of haunted page -->  
<div data-role="page" id="haunted">
```

```
No. 5:
<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>
```

No. 6:  
Change this line to  
``

No. 7 & 8:

Replace the content paragraph of home page (line 71-83) with the two content paragraphs of haunted page you just copied.

No. 9:  
Change this comment line to `</div> <!--/haunted page -->`

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

## Screen Capture 9

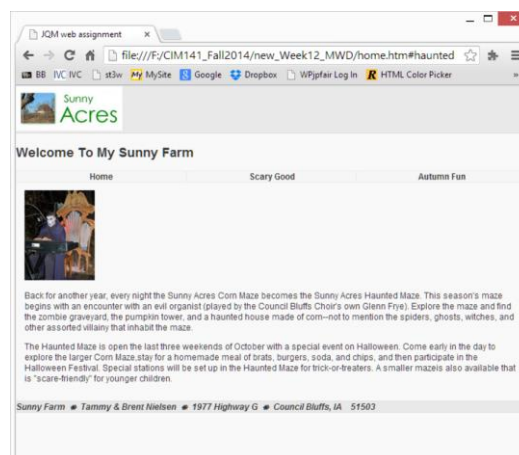
```

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'></header>
59 <h2>Welcome To My Sunny Farm</h2>
60 </div><!--/header -->
61
62 <div data-role="navbar">
63 <ul>
64 <a href="#home" data-role="button">Home</a>
65 <a href="#" data-role="button">Scary Good</a>
66 <a href="#maze" data-role="button">Autumn Fun</a>
67 </ul>
68 </div> <!--/nav -->
69
70 <div data-role="main" class="ui-content">
71 
72 <p>
73 Back for another year, every night the Sunny Acres Corn Maze becomes the
74 Sunny Acres Haunted Maze. This season's maze begins with an encounter with
75 an evil organist (played by the Council Bluffs Choir's own Glenn Frye).
76 Explore the maze and find the zombie graveyard, the pumpkin tower, and a
77 haunted house made of corn--not to mention the spiders, ghosts, witches, and
78 other assorted villainy that inhabit the maze.
79 </p>
80 <p>
81 The Haunted Maze is open the last three weekends of October with a special
82 event on Halloween. Come early in the day to explore the larger Corn
83 Maze, stay for a homemade meal of brats, burgers, soda, and chips, and then
84 participate in the Halloween Festival. Special stations will be set up in
85 the Haunted Maze for trick-or-treaters. A smaller maze is also available that
86 is "scare-friendly" for younger children.
87 </p>
88 </div> <!--/content -->
89
90 <div data-role="footer">
91 <address>
92 Sunny Farm &#9728;&#9728;&#9728;
93 Tammy &amp; Brent Nielsen &#9728;&#9728;&#9728;
94 1977 Highway G &#9728;&#9728;&#9728;
95 Council Bluffs, IA &#9728;&#9728;&#9728; 51503
96 </address>
97 </div> <!--/footer -->
98 </div> <!--/haunted page -->
99
100 </body>
101 </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.

## Screen Capture





- 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.

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

```
87 </div> <!--/haunted page -->
88
89 <!-- Start of maze page -->
90 <div data-role="page" id="maze">
91   <div>
92     <header data-role='header'></header>
94     <h2>Welcome To My Sunny Farm</h2>
95   </div><!--/header -->
96   <div data-role="navbar">
97     <ul>
98       <a href="#home" data-role="button">Home</a>
99       <a href="#haunted" data-role="button">Scary Good</a>
100      <a href="#" data-role="button">Autumn Fun</a>
101    </ul>
102  </div> <!--/nav -->
103
104  <div data-role="main" class="ui-content">
105    
106
107    <p>
108      Welcome to the Sunny Acres Corn Maze. We first heard about mazes from
109      agricultural exchange students who came from England in 1985. In Europe,
110      mazes are very popular in castle gardens. After hearing about the mazes in
111      Europe, we thought it would be a great idea to build one of our own right
112      outside of Council Bluffs.
113    </p>
114
115    <p>
116      Since 1997, thousands of people have enjoyed our Corn Mazes. We hope that
117      your family gets as much enjoyment out of this year's Corn Maze as we did
118      building it! Our family would like to invite your family to come out and
119      visit us at this year's Corn Maze and AutumnFest.
120    </p>
121
122    <p>
123      Our new 15-acre maze (with over 4 miles of trails to explore) is filled
124      with twists and turns that are good fun for adults and kids alike! See how
125      adventurous you are as you wind through the maze while taking an
126      interactive quiz. Answer the questions correctly and receive additional
127      clues to solve the maze. For families with young children, our maze is
128      filled with jokes, riddles, and quests. Try to be the first in your group
129      to punch out your quest card by visiting the secret spots. This maze is
130      the perfect size and height for little ones. Resting places and
131      educational displays are scattered throughout.
132    </p>
133
134    <p>
135      There is no water available in the maze. Make sure you bring water bottles
136      with you! No one under the age of 12 will be allowed in the maze without
137      an adult at any time.
138    </p>
139  </div> <!--/content -->
140
141  <div data-role="footer">
142    <address>
143      Sunny Farm &#9728;&#9728;
144      Tammy &amp; Brent Nielsen &#9728;&#9728;
145      1977 Highway G &#9728;&#9728;
146      Council Bluffs, IA &#9728;&#9728; 51503
147    </address>
148  </div> <!--/footer -->
149 </div> <!--/maze page -->
150 </body>
151 </html>
```

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

- 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.
- Upload your JQM folder to st3w.ivc.edu, (home.htm and the supported images file)
- Update the Mobile web design assignment link on your electronic portfolio.
- 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