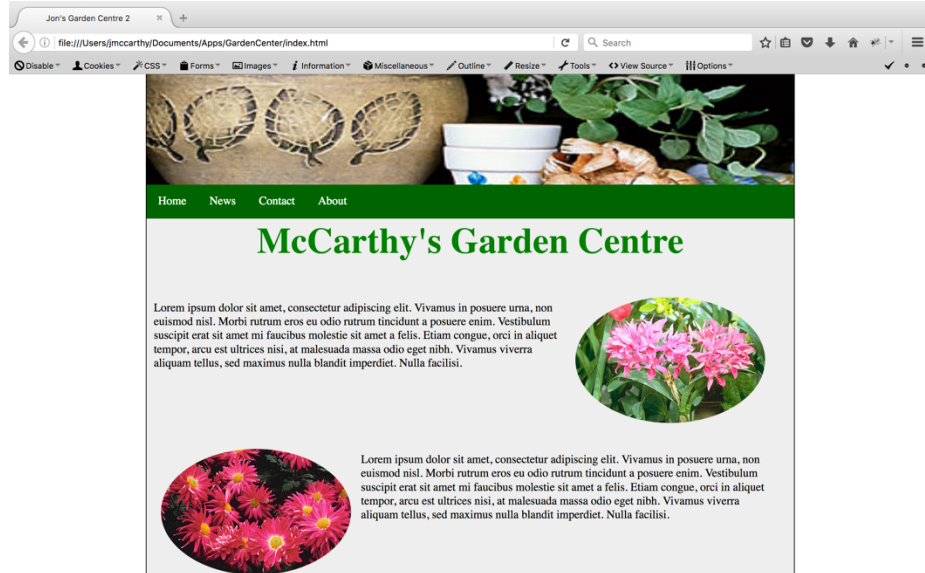


# Web Dev Lab Work Week 4

Section 1 – Follow the steps listed below to create a webpage.

Have a look at the lab video week 4 for an overview on how to structure a project folder.

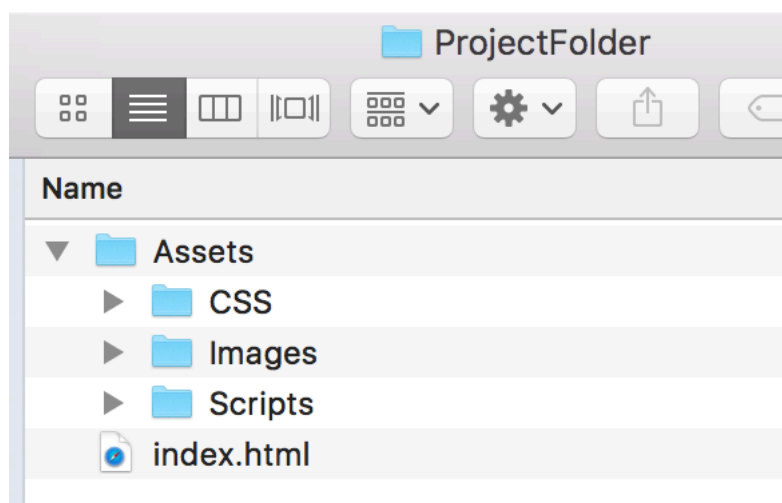
**Part 1:** Create a webpage to represent the following content and layout:



**Step 1:** Create a new project folder named GardenCentre

**Step 2:** add the following folders to the GardenCentre folder  
Assets

- CSS
- Images
- Scripts



**Step 3:** Download the GardenImages ZIP file from Webcourses.

Extract the contents to a new folder. Copy all the pictures to the Images folder.

**Step 4:** Create a new file named index.html and save it in the GardenCentre folder.

Add the standard html for a page.

**Step 5:** The page needs a header, footer and content section.

Update the page markup to look as follows:

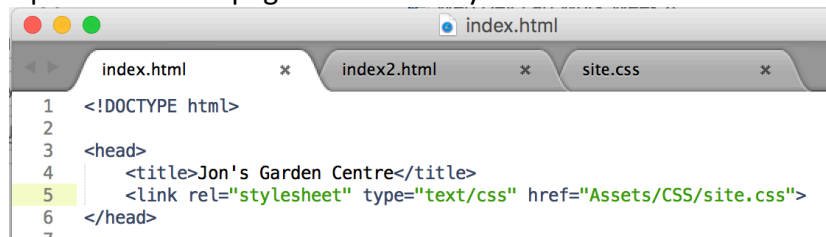


```
1 <!DOCTYPE html>
2
3 <head>
4   <title>Jon's Garden Centre</title>
5 </head>
6
7 <body>
8   <div id="main">
9     <header>
10    </header>
11
12    <section id="content">
13    </section>
14
15    <footer>
16    </footer>
17  </div>
18 </body>
19
20 </html>
21
```

**Step 6:** Add a style sheet to the page.

The stylesheet should be named site.css and saved in the CSS folder.

Update the html page to add the stylesheet to the head section:



```
1 <!DOCTYPE html>
2
3 <head>
4   <title>Jon's Garden Centre</title>
5   <link rel="stylesheet" type="text/css" href="Assets/CSS/site.css">
6 </head>
7
```

The href is looking in the Assets/CSS folder for a file named site.css

**Step 7:** Add a style rule for the body section on the page.

Set the background colour of the page to white and set the padding and margin to 0px.

```
1  body {
2      background-color: #FFFFFF;
3      margin: 0px;
4      padding: 0px;
5  }
6
7  |
```

**Step 8:** Style the Div with id=main. This container should have a width of 70%, a background color of light grey, be centered on the page and have a black border of 1px.

```
7  #main {
8      width: 70%;
9      min-height: 600px;
10     background-color: #EEEEEE;
11     margin: auto;
12     border: 1px black solid;
13     margin-bottom: 10px;
14 }
```

The min-height sets the smallest size the container can be.

The margin bottom adds a space of 10px to the container outside the border.

**Step 9:** Add an image to the header section.

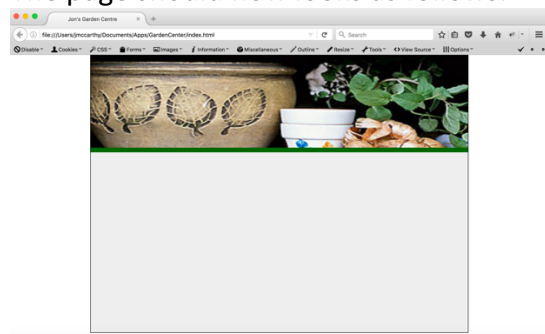
First add a div to the header section. This will be used to contain the image.

Add the following style rule to the CSS:

```
7  header div {
8      height: 200px;
9      background-image: url("../Images/Header.png");
10 }
```

When setting the URL for the background , it is necessary to locate the picture with respect to the current folder we are in. The style rule is in the CSS folder. The picture is in the Images folder. To get to the Images folder from the CSS folder we need to go back one folder and then go into the Images folder to find the picture. The ../ brings us back one folder, the /Images/ brings us to the Images folder to find the picture (Header.png).

The page should now look as follows:



**Step 10:** Add a h1 tag to the page to display the company name

```
<header>
  <div>
    </div>
    <h1>McCarthy's Garden Centre</h1>
  </header>
```

Add the following style rule for the h1 tag.

```
12  header h1 {
13      color: green;
14      font-size: 50px;
15      font-family: serif;
16      text-align: center;
17      margin-top: 5px;
18  }
```

**Step 11:** Next add a nav tag to hold the pages menu bar. Update the header section to look as follows:

```
12      <header>
13          <div></div>
14          <nav>
15              <ul>
16                  <li><a class="active" href="#home">Home</a></li>
17                  <li><a href="#news">News</a></li>
18                  <li><a href="#contact">Contact</a></li>
19                  <li><a href="#about">About</a></li>
20              </ul>
21          </nav>
22          <h1>McCarthy's Garden Centre</h1>
23      </header>
```

The <nav> tag contains an unordered list with links. This will be styled to display as a horizontal menu bar. Add the following style rules for the nav and the unordered list:

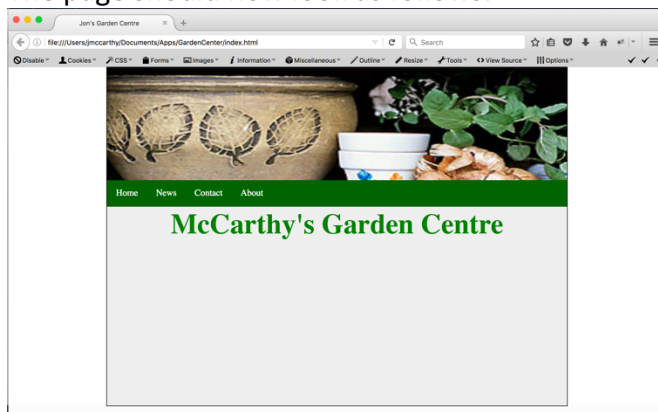
```

29  ul {
30      list-style-type: none;
31      margin: 0;
32      padding: 0;
33      overflow: hidden;
34      background-color: DarkGreen;
35  }
36
37  li {
38      float: left;
39  }
40
41  li a {
42      display: block;
43      color: white;
44      text-align: center;
45      padding: 14px 16px;
46      text-decoration: none;
47  }
48
49  li a:hover {
50      background-color: green;
51  }
52

```

The ul list style type set to none gets the list to have no styling, ie. Don't display as bulleted points. The list items li have been set to float left, this gets them to appear all on the same link. The li a styles the links. The li a:hover changes the color if the mouse hovers over it.

The page should now look as follows:



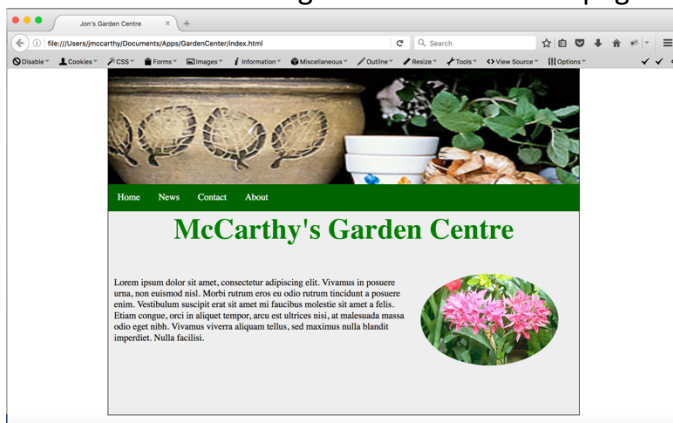
**Step 12:** Next we will add an text and an image to the page. The text should be on the left and an image on the right. Update the section with an id of content to look as follows:

```
24     <section id="content">
25         <section class="textWithImage">
26             <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
                Vivamus in posuere urna, non euismod nisl. Morbi rutrum eros
                eu odio rutrum tincidunt a posuere enim. Vestibulum suscipit
                erat sit amet mi faucibus molestie sit amet a felis. Etiam
                congue, orci in aliquet tempor, arcu est ultrices nisi, at
                malesuada massa odio eget nibh. Vivamus viverra aliquam
                tellus, sed maximus nulla blandit imperdiet. Nulla facilisi.
            </p>
27             
28         </section>
29     </section>
--
```

We have created a new section with a class name of textWithImage. The class attribute has been used as there will be may be multiple types of this section on the page, the same CSS rules can style them all. Add the following to the stylesheet:

```
53 .textWithImage {
54     margin: 10px;
55 }
56
57 .textWithImage p {
58     display: inline-block;
59     vertical-align: top;
60     width: 65%;
61 }
62
63 .textWithImage img {
64     margin: 10px;
65     display: inline-block;
66     border-radius: 50%;
67     width: 30%;
68 }
```

The paragraph and the image rules have been told to display as inline blocks. This will get them to display side by side. The images are been styled with the border radius property, this will round the images to ovals etc... The page should look as follows:



**Step 13:** Add another textWithImage section to the page:

```
30 <section class="textWithImage">
31   
32   <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
    Vivamus in posuere urna, non euismod nisl. Morbi rutrum eros
    eu odio rutrum tincidunt a posuere enim. Vestibulum suscipit
    erat sit amet mi faucibus molestie sit amet a felis. Etiam
    congue, orci in aliquet tempor, arcu est ultrices nisi, at
    malesuada massa odio eget nibh. Vivamus viverra aliquam
    tellus, sed maximus nulla blandit imperdiet. Nulla facilisi.
    </p>
33 </section>
```

Note: the image in this one is first, with the text second.

The page should look as follows:



**Step 14:** Add a block of images to the page. Add the following to the section with an id of content.

```
35 ▼ <section class="gardenImages">
36   
37   
38   
39   </section>
40
```

Add the following styles for the above markup:

```
70 .gardenImages img {
71   display: inline-block;
72   width: 25%;
73   margin: 3%;
74   border-radius: 5px;
75 }
```

The images are being styled with the inline block, this will get them to display in a line. The width of the images has been set to 25% of their original size, and the margin has been set to space the images on the page. The page should look as follows:



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus in posuere urna, non euismod nisl. Morbi rutrum eros eu odio rutrum tincidunt a posuere enim. Vestibulum suscipit erat sit amet mi faucibus molestie sit amet a felis. Etiam congue, orci in aliquet tempor, arcu est ultrices nisi, at malesuada massa odio eget nibh. Vivamus viverra aliquam tellus, sed maximus nulla blandit imperdiet. Nulla facilisi.



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus in posuere urna, non euismod nisl. Morbi rutrum eros eu odio rutrum tincidunt a posuere enim. Vestibulum suscipit erat sit amet mi faucibus molestie sit amet a felis. Etiam congue, orci in aliquet tempor, arcu est ultrices nisi, at malesuada massa odio eget nibh. Vivamus viverra aliquam tellus, sed maximus nulla blandit imperdiet. Nulla facilisi.



**Step 15:** Add another block of images to the page (straight after the others):

```
41         <section class="gardenImages">
42             
43             
44             
45         </section>
```

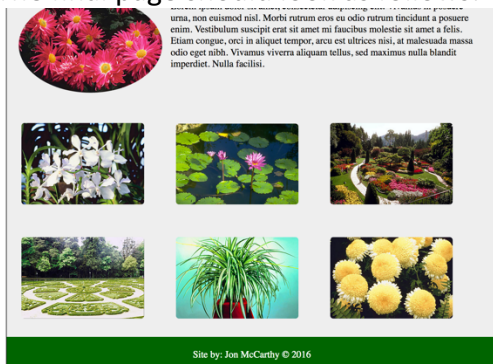
**Step 16:** Style the footer. Update the footer section to look as follows:

```
49         <footer>
50             <p>Site by: Jon McCarthy &copy; 2016</p>
51         </footer>
```

Style it with the following:

```
84     footer {
85         text-align: center;
86         background-color: DarkGreen;
87         padding: 5px;
88         color: white;
89     }
```

The final page should look as follows:





Step 17: Use some more CSS rules to enhance the display of the page.

Eg. Fonts, Padding, Margins, borders etc.....

Use some additional images from the Images folder etc.....

### Marking Scheme: - Lab work week 4 (20 marks)

	80-100%	70-79%	60-69%	50-59%	40-49%	0-39%
Structure Project Folder (30%)	All content separated and in the correct folders	Most of content separated and in the correct folders	OK structure followed content separated and mainly the correct folders	Some structure followed with some content located correctly.	Minimal attempt at structure and content	No Attempt 0%
Part 3 (10%)	Very detailed description of Lab 3 with additional content	detailed description of Lab 3	basic description of Lab 3	minimal description of Lab 3	Some content added to blog, off topic and unrelated to lab work.	No Attempt 0%
Part 4 (70%)	Site created. Good variety of tags and CSS used. Displays exactly as specified in the lab document.	Site created. Good variety of tags and CSS used. Displays nearly the same as specified in the lab document.	Site created. Good variety of tags and CSS used. Displays somewhat like to page specified in the lab document.	Site created. OK variety of tags and CSS used. Displays exactly as specified in the lab document. Content missing or not displaying correctly.	Basic site with minimal content and only demonstrating some basic tags.	Site created. <b><u>Minimal attempt</u></b> with some content and some basic tags used. And/or some fiddles embedded on site

Note: the marking scheme will be used in conjunction with how the steps were followed in the lab document to create the webpage.