Week 1 – Lab 1

Review HTML5 + CSS + JavaScript

In this lab we are going to review your knowledge of HTML5, your task is to build your Resume as a web page using HTML5 standards (HTML5, CSS3, JS) at task, you should not use any frameworks or libraries such as Bootsrap or JQuery.

Please refer to w3Schools.com as your main reference and to refresh you knowledge

To implement the code successfully, you should understand the following:

- CSS basics
- How CSS Selectors work
- **CSS attributes:** clear, float, margin, padding, width, border, font **and** color
- **HTML tags:** <dl> <dd> <dt> <div> <span> <p> <img> <a>
- HTML Layout
- HTML Formatting
- HTML Responsiveness

Please click on each word above to get more information.

Step 1: Page Layout

Lets layout our basic page

```
1.  <!DOCTYPE html>
2.  <html lang="en">
3.
4.      <head>
5.          <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
6.          <title>My Resume</title>
7.          <link rel="stylesheet" type="text/css" href="resume.css">
8.      </head>
9.      <body>
10.         <div id="mainContent">
11.
12.         </div>
13.     </body>
14. </html>
```

Step 2: CSS

We need to create main styles for our page

```
1.  /* set default margin and padding for all elements */
2.  * { margin: 0; padding: 0; }
3.  /* set the page default font and background color*/
4.  body { font: 16px Helvetica, Sans-Serif; line-height: 24px; background-
    color: ivory; }
5.  /* do not allow non floating element to align with floating elements */
6.  .clear { clear: both; }
7.  /* set resume width and margin */
8.  #mainContent { width: 800px; margin: 40px auto 60px; }
9.  /* main resume title margine and font style and also the line underneath */
```

```
10. h1 { margin: 0 0 16px 0; padding: 0 0 16px 0; font-size: 42px; font-
    weight: bold; letter-spacing: -2px; border-bottom: 1px solid #999; }
11. /* set main photo position and margin relative to the near contents */
12. #pic { float: right; margin: -30px 0 0 0; }
13. /* set paragraph defaul margin */
14. p { margin: 0 0 16px 0; }
15. /* set cover letter paragraph attributes */
16. #coverLetter { width: 500px; float: left; }
17. #coverLetter p { font-family: Georgia, Serif; font-style: italic; color: #666; }
```

Step 3: Add some constants

Now lets add some actual contents, we will add a paragraph and an image, the image you can find it in the moodle but you can use any image, if your image size is not 220x220 then set its style or resize it with photoshop.

After the main content div tag lets insert the following code:

```
1.  <div>
2.      <h1>Your Name</h1>
3.  </div>
4.  <img src="images/male_profile_pic.png" alt="Resume Pic" id="pic" />
5.  <div id="coverLetter">
6.      <p>
7.          An ambitious problem solver with a passion for online businesses, and who
8.          would like to join a team of like-minded developers. I have much
9.          experience of creating logical and innovative solutions to complex problems
            .
10.         I am thorough and precise in everything I do, and have a keen interest in
11.         technology, mobile applications and user experience. As someone who takes
12.         responsibility for own personal development, I am continually evaluating
13.         and upgrading my skills so that I stay at the cutting edge of web
14.         development.
15.     </p>
16. </div>
```

And this is what we should see in the browser

Step 4 Add other Resume contents:

We will use the <dl> (description list) tag to list all resume elements from education, skills, work experience, hobbies, references and any others, for each item a <dt> (description tag) will be used, for its contents a <dd> (description data) will be used. Now lets style a work experience element and add to the page.

```
1.  <dl>
2.      <dd class="clear"></dd>
3.      <dt>Education</dt>
4.      <dd>
```

```
5.          <h2>Coventry University 2014 - 2017</h2>
6.          <p><strong>Course:</strong> Computer Science<br />
7.             <strong>Degree:</strong> B.SC</p>
8.      </dd>
9.
10.     <dd class="clear"></dd>
11.
12.     <dt>Skills</dt>
13.     <dd>
14.         <h2>Web Development</h2>
15.         <p>Full stack development, ability to use HTML5, CSS3, and Javascript profe
    ssionally on client and server<p>
16.         <h2>Database</h2>
17.         <p>ability to design and implement databases using mySQL and MongoDB</p>
18.     </dd>
19.
20.     <dd class="clear"></dd>
21.
22.     <dt>Experience</dt>
23.     <dd>
24.         <h2>Internship <span>Some Company - Birmingham June 2015 - Oct 2015 </span>
    </h2>
25.         <ul>
26.             <li>worked on first task description</li>
27.             <li>Helped on another task here</li>
28.             <li>Provided support for a third task</li>
29.         </ul>
30.     </dd>
31.
32.     <dd class="clear"></dd>
33. </dl>
```

Note how the span tag is used to create an inline container for a differently formatted text, also note the use of the clear css property that we defined above in the css file, we will override it in the css file
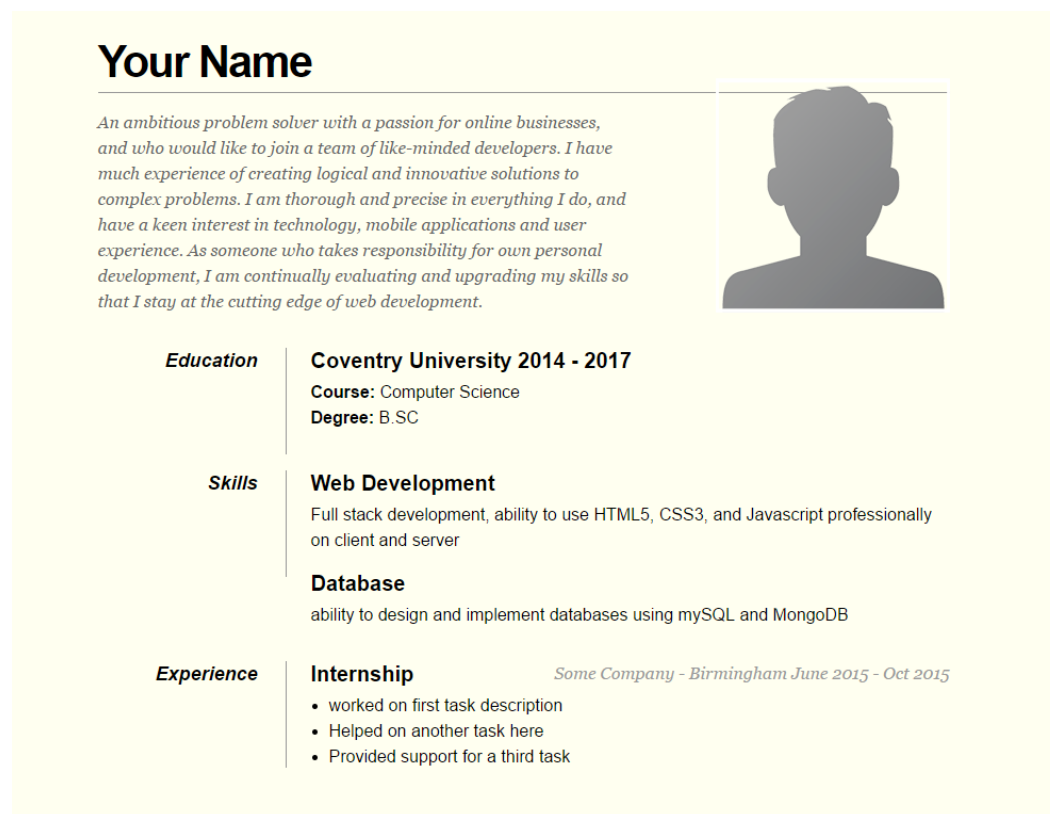
Now lets format our new content with some css:

```
1.  /*format h2 titles */
2.  h2 { font-size: 20px; margin: 0 0 6px 0; position: relative; }
3.  h2 span { position: absolute; bottom: 0; right: 0; font-style: italic; font-
    family: Georgia, Serif; font-size: 16px; color: #999; font-weight: normal; }
4.  /* set margin for our unordered list */
5.  ul { margin: 0 0 32px 17px; }
6.  /* format the resume using Euro style */
7.  /* dt contains section titles and will float to the left */
8.  dt { font-style: italic; font-weight: bold; font-size: 18px; text-
    align: right; padding: 0 26px 0 0; width: 150px; float: left; height: 100px; border
    -right: 1px solid #999;  }
9.  /* dd tags contains details and will float to the right */
10. dd { width: 600px; float: right; }
11. /* override default clear behaviour for dd tags */
12. dd.clear { float: none; margin: 0; height: 15px; }
```

result:

All code and files are available on moodle, now it is your task to extend the resume as follow:

- Improve the image using better style
- Improve existing Education, Skills and Experience sections
- Improve page colors
- Add personal information section above the cover letter that contains: mobile, email, address and date of birth.
- Add links throughout your resume, make different style when hovering over the links
- Add a section underneath the image that contains icons to Facebook, linkedin, youtube, Instagram or any other.
- Add sections for Hobbies, References, and Languages
- Add a menu on the left to help navigating to each section of the resume
- Add a footer to the page
- Make the page responsive

References:

This tutorial is based on the code from:

https://css-tricks.com/examples/OnePageResume/