**Fundamentals of Web Development**

**Spring 2019**

**Professional Term Project Web Site Requirements**

**(100 Points)**

**Turn – in - Due 9:45 AM, Monday, April 29**

Please use the topic you selected and obtained approval from the instructor for your term project. You have the option of using Adobe Dreamweaver for developing your site. If you choose to continue on with your midterm project, you are welcome to do so.

Here are the requirements:

**Part I – Basics (30%)**

1. Your website should have at least 4 pages, hyperlinked through navigation
2. The website should be developed according to HTML5 standards. Please run your webpages through the HTML5 validator on the w3c website
3. The styling code should be contained in an external style sheet which should be linked to each of the web pages you develop
4. Your css should be developed according to css standards. Please run your css files through the css validator on w3c.
5. You should turn in a working hyperlink to your website with working links in your site.

**Part II – Design (20%)**

1. Please apply the design principles covered in Chapter 5 of your book in developing your site. I am enclosing the best practice design check list for your reference. Please apply the checklist and turn in the completed checklist.
2. Use a three-column wireframe for page layout with sufficient padding/spacing and css float left and right. If you choose a different layout, please provide a rationale for the same.
3. Your navigation links should be placed within the nav element. Use unordered list in your nav.
4. Use relative hyperlinks for links within your website
5. Make sure you have code that makes your HTML5 code compatible with older browsers

**Part III - Functionality (30%)**

1. Consider the mobile web design best practices from chapter 7 and implement the following:
   1. Insert viewport meta tag in all your web pages
   2. Include css3 media queries to progressively enhance your web site for different viewing contexts such as smart phones and tablets

(Please refer to the worked class example from class)

* 1. Test your mobile displays using some of the tools specified by the author: <http://webdevfoundations.net/8e/chapter7.html>

1. Include a table in your website and use css to set the style of your table
2. Include a form in your website and use css to style the form. It is sufficient if you use the <mailto:> feature for the action attribute of your form
3. Include meta title and description tags reflecting page content for every web page in your site for SEO
4. Design to provide accessibility throughout your website. Please read Chapter 5 carefully for more information on how to design accessible web sites.

**Part IV – Presentation and Summary (20%)**

1. You are required to present your project to the class on Monday, April 29, 9:45 AM. Your project will not be graded if you fail to attend class and present your project on this date.
2. You are required to write and turn in a reflective summary not less than 1 page and not more than 2 pages in length on lessons learnt specific to this project or general lessons from this course as well as how might you have improved the planning and execution of the project and improved your learning in this course.

**Note:**

1. All pages on your site should conform to the HTML5 Document Type (<http://validator.w3.org/>).
2. All styles should be placed in css files and should be validated (<http://jigsaw.w3.org/css-validator>/).
3. All pages should also conform to the Web Accessibility Initiative. Please pay attention to the readability of your website in terms of font/color, alt attributes for media etc. The author’s website has useful tools for checking accessibility features: <http://webdevfoundations.net/8e/chapter5.html>

**Turn – in - Due 9:45 AM, Monday, April 29**

**Presentation: 9:45 AM, Monday, April 29**

The final project must be published on UCfilespace.

Final project site must also be turned in through the bb link, in a zipped format and must contain:

* The URL of the website on the web
* Complete Website files (Please do not include the image/media files)
* Best Practices design check list for your website
* Reflective summary for your website

**Extra Credit:**

You can earn up to 10 points extra credit if you implement a functionality that has not been taught in class (For Ex: Non-trivial JavaScript, Ajax etc.). The number of extra credit points will depend on the quality of your addition. Please demonstrate the addition in your presentation in-class and refer to it in your reflective summary.