Emerging Web Technology and Trends (MPTC/152-117)

Learning Plan 2
Performance Assessment 1 B
Web Standards and Specifications
Project of Choice
Competencies: Investigate new and emerging web standards and specifications.

Directions to Learner:

You will complete another project of your own choice however the limitations involve:

- you have not already demonstrated this in another project
- focus has to be something related to web standards and specifications
    - It should not have a software focus as that we will do in LP3
    - It could have a trend focus but should focus on standards and specifications types of topics as that is the focus for this plan!

This project must demonstrate your self-directed learning by innovation and initiative in the expansion of your skill base.

The choice of project topic focus is up to you!

Some possible ideas to consider can be drawn from the:

- Online_EWTT_WebStandardsSpecs_ProjectChoice_201x.ppt
- Web Standards and Specifications Discussion
- Your own Web Standards and Specifications Research

The project has to focus on something you have not done before, it is an opportunity to focus your attention and time on something you find intriguing and want to learn more about.

You will create a web page to add to your final project site that contains the required documentation for this project. There should be a link on that page to the demonstration of your project of choice if appropriate.

You will provide the required documentation as outlined on the Scoring Guide. You will submit the URL to the required documentation in the Drop Box.

Main Project with link to scoring guide:

http://aallmann.com/trends/maps.html

Short secondary project:

http://aallmann.com/trends/parallax.html

Scoring Guide: Grading Criteria

Criteria	Values
Innovation and expansion of skills are demonstrated in project. **Documentation:** Describe how this was innovative and went beyond your current skill level. Convince the reader of this! Remember the ***Scoring Rating Scales Key*** below!!	20 18 6 0

In the past, I have used the simple static Google map that is installed with an iframe. I have not installed an interactive Google map using the Javascript API & map key. From what I understand, embed is somewhat static where you can show a location(s) but not interact. The API is dynamic/interactive.

My only experience with the Javascript API was seeing it in a few templates. Many of the options in the Javascript are obvious and easy to modify. Others take research to understand.

From my reading, I located code snippets to add a pop-up info box and map marker. I also found a link in a tutorial to a neat site called *Snazzy Maps* that provides free Javascript code snippets for changing the colors/overlay on the map.

Although I used various code snippets and examples from my resources, I understand the Javascript and the process well enough now, and I think I would be able to add additional options without too much difficulty.

I also did research on Parallax Design when I was deciding on my topic for this learning plan. I decided to add a secondary project about Parallax Design because I found a cool scrolling Christmas card that was so fun that I had to share it. I didn't delve too deeply into parallax, but one thing I did learn is it is much more than just having a fixed background image! The Christmas card demo is evidence of that! And there are several Javascript libraries just waiting to be investigated.

Project and code is 100% functional when viewed in at least one browser meeting web coding and design standards. **Documentation:** State the browser to be used to view your project. Describe the testing done. Describe how you incorporated web standards and design standards learned in your course of study into this project.	10 8 6 0

Browser: Chrome on Windows 7. Also tested on iOS (iPad), Android (Samsung Galaxy phone), and 10" Kindle Fire tablet (Android).

Chrome Developer tools were utilized to view the page in Responsive mode and to check for console errors (none). Tested for responsiveness on amiresponsive.io and techsini.com/multi-mockup/. All links were tested and are functional. External links target a new page.

Web Standards

- HTML page validates without error or warning.
- CSS validates without error or warning.
- Meta Description is present.
- Meta Keywords are present.
- CSS is in an external file.
- Proper heading structure is maintained.
- Image alt tags are present.
- External links have title tags.
- External links target a new page.
- Code is orderly and well-commented.
- Javascript files are placed directly above the closing body tag.

Design Standards

- Page layout is consistent with the previous project to maintain consistency.
- Page colors are consistent with the website.
- Heading styles and hierarchy are consistent with the website.
- Ample white space, margins and font size is maintained for readability.
- Text content is readable, understandable, and uses proper sentence structure.
- Navigation is functional. All links are working.
- Navbar is sticky.
- Animations are subtle and enhance the page's message.
- Page is mobile responsive.

Reflection includes description of sources used, difficulties encountered, and skills gained. **Documentation:** Include a reflection statement that address all three areas listed in the criteria.	5 4 2 0

Resources

Google Maps Project

https://snazzymaps.com/

https://webdesign.tutsplus.com/tutorials/getting-creative-with-the-google-maps-api--webdesign-13380

https://developers.google.com/maps/documentation/javascript/get-api-key

https://developers.google.com/maps/documentation/javascript/adding-a-google-map

https://developers.google.com/maps/documentation/javascript/tutorial

https://developers.google.com/maps/documentation/javascript/infowindows

https://www.w3schools.com/graphics/google_maps_basic.asp

Parallax Design Project

https://www.smartinsights.com/user-experience/website-design/use-parallax-impress-readers/

https://pepsized.com/merry-scrolling-with-skrollr-js/

https://envato.com/blog/parallax-scrolling-in-web-design/

https://www.vandelaydesign.com/parallax-scrolling-best-practices-examples-and-tutorials/

http://detectmobilebrowsers.com

Adobe Photoshop

Flaticons

Reflection

I learned what is involved with building a Google map using the Javascript API vs. installing a basic embedded map with an iframe. I won't claim to understand how to code it fully, but when broken down into sections, I understand the concepts, such as how to initialize the map and how/where/why variables and objects are placed/written under the function.

I found the JS code to be very understandable when looking at it as a whole, but when writing the demo, it all feels and looks a little cumbersome. I'm wondering if there would be a better way to present it. My goal is always to present information that will be helpful to the reader. I don't want to lose them along the way.

Also, the API Key process was less than user friendly. I wasn't sure if the key had to be assigned to the specific page or to the website as a whole. It wasn't recognized at first, but now everything is working, so maybe there was a delay in the activation.

The tutorial for the Parallax Design project was very dated and the code was not up to standards. I updated the code and modified some sections. My goal was to present it in a manner that is understandable to the others in the class.

Anne Allmann

TOTAL:	**35**
Scoring Rating Scales Key: First Point Value = Criteria Fully Met: Exceeded Requirements Second Point Value = Criteria Met: Minimum Requirement Levels (no redo required) Third Point Value = Criteria needs improvement –redo required Fourth Point Value = Criteria not present, not met	

Core Abilities Scoring Guide

Criteria	Values
Key: yes = 2 pts. no = 0 pts.	
Think Critically and Creatively: Learner synthesizes information from a variety of sources	yes no
Communicate Clearly: Learner will apply standard rules of language structure including grammar, spelling and punctuation	yes no
Learn Effectively: Learner shows initiative and is resourceful in finding supplemental learning materials and exam	yes no
Act Responsibly: Learner completes tasks according to prescribed deadlines	yes no