

PLAR MTM6230

Introduction

This assignment will have the purpose to showcase the student's work and skills in the form of a web portfolio; This portfolio will include a "gallery" section where the student's work is displayed, an "about me" section that provides information about the student's skills, education and experience, a "contact me", and "home" section.

For this project, the student should make use of the technologies covered in class and follow the accessibility standards. It should reflect the student's personality and abilities.

Requirements

The student must create any necessary HTML, CSS, and JavaScript files as well as employ original material for the gallery section. The web portfolio must adhere to the following requirements.

1. The site must be optimized for a variety of browsers, devices and screens sizes.
2. The site should strive to meet accessibility standards. This should include semantic markup in a logical order, readable text, alternative text on visual elements, and be functional using only the keyboard.
3. The site should utilize modern layout techniques. The student must use Flexbox or CSS Grid, or a combination of both. They may NOT use any CSS Frameworks like Bootstrap or Foundation.

4. The site must make use of web fonts, and the student must use only fonts that they have the right to use.
5. The use of images, illustrations, videos, or any other asset is highly encouraged and should be limited to no copyrighted materials.
6. The student must make sure that any images and illustrations are optimized, and that they respond (grow and shrink) to the layout. The student should provide multiple sizes of all images and/or utilize `<picture>` tag and `srcset`, `sizes`, and `media` attributes.
7. The student must employ CSS animations to the gallery page and CSS transitions to all button state changes (normal to hover, to active).
8. The content of the gallery section of the portfolio must be generated dynamically using JavaScript. The HTML section of the gallery can only contain the header section and any information to the user, all images must be displayed using JavaScript.
9. The images in the portfolio gallery must be clickable and using event listeners, an interaction should occur upon clicking. This section must also be accessible via keyboard.
10. The student must create a `README.md` file and save it in the root of the site. Inside the file, the student must include a brief description of how they created their web portfolio. This should include what challenges they faced during development and how they overcame those changes. Finally, they must include a list of any assets or resources they used that were not original, including any, libraries, plugins, fonts, or images.
11. The student must submit the web portfolio in the form of 2 links; One is a PUBLIC GitHub repository link, and the second to the GitHub pages where the student

must upload the site as well. NOTE: no changes can be pushed to repository past the deadline.

Rubric

Item	Excellent (19-20/20)	Good (15-18/20)	Acceptable (10-14/20)	Insufficient (0-9/20)	Score
1.) Construct responsive web sites using modern techniques. (20 points)	The site is responsive, makes good use of the CSS flexbox model AND/OR CSS grid, the layout changes according to the viewport size and the content flows in all sizes. The size follows responsive trends, such as hamburger menus and expansive layout.	The site is responsive and makes good use of the CSS flexbox model AND/OR CSS grid, The layout follows the size but maybe less comfortable to read in some sizes. The functionality is not very different between sizes.	The site is responsive and makes minimum use of the CSS flexbox model AND/OR CSS grid.	The site is not responsive, does not use the CSS flexbox model AND/OR CSS grid. The content is difficult to read on smaller screens and the layout is broken in some sizes.	_/20
2.) Construct a web site that ensures there are no barriers that prevent	The site is fully accessible and optimized, all HTML tags	The site is mostly accessible and optimized. Most HTML	The site is barely accessible and optimized, a few HTML	The site is not accessible or optimized, there are very few or no HTML semantic tags, there is no	_/20

interaction with, or access to it, regardless of the users abilities. (20 points)	are semantic (as availability permits), all functionality is available with the keyboard alone, the site meets WCAG Guidelines. All media content is optimized to improve loading speed and browser compatibility.	tags are semantic, most functionality is available with the keyboard alone, the site meets some WCAG Guidelines. most media content is optimized to improve loading speed and browser compatibility.	tags are semantic, a few functions are available with the keyboard alone, the site meets a few WCAG Guidelines. some media content is optimized to improve loading speed and browser compatibility.	keyboard functionality available, and there are no WCAG Guidelines met. The media is not optimized and causes poor loading speed.	
3.) Use effective animation to improve the user experience. (20 points)	The site includes subtle but useful animations and transitions based on the need, that are properly applied and provide an added value to the user experience (UX) The animations and transitions follow current trends and cause no disruption to the	The site includes animations and transitions that are properly applied. They may not be subtle or very useful but cause no disruption to the experience of the site.	The site includes animations and transitions. They may not be subtle or very useful and can be mildly distracting to the experience of the site.	The site has no animations or transitions.	_/20

	experience of the site.				
4.) Add interactivity to responsive web sites with JavaScript. (20 points)	The site uses JavaScript to store, create, and update the content and appearance of a web site. In particular of the gallery section. The site uses JavaScript to track user activity and respond to those actions, more specifically, the use of event listeners to call functions that perform another action.	The site uses JavaScript to store, create, and update the content and appearance of a web site. In particular of the gallery section.	The site uses JavaScript to track user activity and respond to those actions, more specifically, the use of event listeners to call functions that perform another action.	The site makes no use of JavaScript.	_/20
TOTAL SCORE ACHIEVED					_/80