Web Development I

Spring 2019

Final Project

Name:

Web Development I Final Project

The Web Development I final project will require students to take the existing Project 7 About Me web page and add their own additional content and styling.

Delivery will be a GitHub repository assigned through the GitHub classroom invitation ([https://classroom.GitHub.com/a/TOz0VlA8](https://classroom.github.com/a/TOz0VlA8) ). The repo will be public and have the GitHub pages source set to master so that the page can be viewed by others.

The following list includes the features required as part of the delivery.

1. GitHub repository
   1. A README.md file written by the student. The file will present a professional description of the project with a list of features, and a section at the end listing all attributions required to honor copyright licenses.
   2. Design documents in a folder named design.
   3. All other files shall be located in correct folders.
   4. A download of the repo provides all files to view the web page without error.
   5. \* The student can earn extra credit by including a Bootstrap version of the web page in a GitHub folder named bootstrap.
2. Content
   1. Header displaying a logo and page title. The header will be styled with the web’s theme as defined by the student’s Web Design Assets Inventory.
   2. Navbar with responsive single page navigation using a <nav> element with links to parts of the page. A new navbar list item will be added to link to the new article that will also be included.
   3. Profile section including a profile photo and a bio. The profile picture will be styled. The bio section from Project 1 will be rewritten and styled.
   4. Photo gallery including a minimum of 3 photos.   
        
      \* The student can earn extra credit by adding an additional 3 photos, or more, and creating a responsive layout.  
        
      \* The student can earn extra credit by giving the gallery CSS special effects.
   5. Article (story) as introduced in Project 5. The article will have a drop cap on the first letter of its first paragraph.
   6. Additional article (blog) discussing an advanced CSS technique the student has chosen to feature and demonstrate. This blog article must have a minimum approximately 200 words and at least one visual element for demonstration. A more complete description of the topics for this new content will follow.
   7. Contact form as introduced in Project 5. Using CSS styling along with transform and transition effects, the submit button will show additional behavior when a mouse hovers over it and when it is clicked.
   8. Footer will have a copyright notice and at least one social icon link to the student’s GitHub account. Other linked social icons can also be added.  
      The student can use icons from Fontawesome or icons from a different source.
   9. The student will be allowed to add third-party imagery as long as they obtain and understand the copyright license. For all sources, the student will list the attribution to honor copyright.
3. Styling
   1. Typography. The web theme will contain a paired set of typefaces. There will be a font family for the display type which will be paired with a font family for the body type. The theme will include at least 2 different weights and italic style. See Web Design Assets.
   2. Color - The web theme will include colors. The color scheme will include the hex codes and RGB values for the colors. Grayscale color values will be included, especially as it relates to typography. Contrast ratios will be noted in the inventory. Background colors can be gradients. See Web Design Assets inventory.
   3. Logo - The student will replace the Blue Origami Bird with a logo of the student’s choosing. The logo must be delivered both as an svg file and as a png file for the favicon. The student must have copyright permission to use the logo and will give attribution in the README.md file in the repo, and, if required by the copyright, in the page footer.  
        
      \* The student can earn extra credit with an original design for the logo.
   4. Layout - The final web page will implement Responsive Web Design with a fluid layout, flexible images, and media queries.
   5. Pseudo Class.  The student will modify the Submit Button to have some interactive behavior during the hover and click states. When a mouse hovers over the button and when it is clicked, some styling (color, border, size, font, etc) should change making the button more interactive.
   6. Drop cap on the first letter of the first paragraph of the story article. The student will research and implement CSS code to create a distinctive drop cap that matches the overall tone of the web page’s theme.
4. Asset Inventory. The student will fill out the below Web Design Assets Inventory. The due date for the inventory will be approximately 1 week before the final project is due.  
     
   \* The student can earn extra credit by also delivering visual design documents.   
     
   \* One design document is the mood board which is a visual representation of the design assets. The mood board can be created in either Adobe Photoshop or Adobe XD.   
     
   \* Another design document is an RWD prototype using Adobe XD showing the mobile, tablet, and widescreen design and layout of the web page.
5. Code. All HTML and CSS code will pass validation and be beautified.

Blog Article Topics

The student will choose **one** topic from the below list of advanced CSS techniques to write a short blog article. The student will research the topic, write a short description, and create visual example(s) of it in the blog article. The type of visual example(s) will be dictated by the topic.

1. Background image properties: repeat, position, size, and position.
2. CSS Sprites
3. Variable Fonts
4. CSS Custom Properties
5. CSS Animation
6. Stacking with z-index
7. CSS Gradients
8. CSS Filters
9. Scalable Vector Graphics (SVG)
10. CSS Cursors
11. HTML5 video with object-fit and object-position
12. CSS Clip Path
13. Image Hover Effects
14. CSS Shape Outside
15. Student’s Choice With Instructor Permission

The student will journal the resources found during the research phase and upload the journal as a page submission within Canvas. If any found resource has its own visual example(s), the student will create different example(s). The student will submit which blog topic they have chosen and at least two resources to be used approximately 1 week before the project is due. Plagiarism will not be tolerated.

\*  The student can earn extra credit by choosing more than one topic for blogging.

Grading Rubric

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| --- | --- | --- |
| **Deliverable** | **Criteria** | **Maximum Points** |
| GitHub repository | A complete deliverable. The README.md is complete and attributions listed. | 10 |
| Content from P1-P7 | A clean Project 7 is used as starter code. | 5 |
| Theme | The theme with colors and typography is used effectively. | 5 |
| CSS | CSS styling is properly written and used effectively. | 20 |
| Logo | A new logo will be added for the logo (svg) and favicon(png). | 5 |
| Submit button | The button has hover and click interactivity. | 10 |
| Drop cap | The drop cap is displayed properly using CSS. | 5 |
| Blog article | The topic is researched, discussed, and is demonstrated effectively. | 20 |
| Asset inventory | The asset inventory is complete and delivered on time. | 10 |
| Code validation, style, beautified | No errors are found. | 10 |
| **Total** |  | **100** |

Extra Credit

Extra credit of up to 30 points can be earned. You are cautioned not to spend time on extra credit if the main project deliverables are not yet completed and tested.

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **Criteria** | **Maximum Points** |
| Mood board | A mood board using Adobe XD or Photoshop is created that matches the asset inventory and is delivered to the design folder. | 5 |
| Design prototype | A design prototype using Adobe XD is created and a link to the Adobe page is added to the README.md file | 5 |
| Logo design | An original SVG is designed and used for the logo. | 5 |
| Additional Gallery | The gallery is expanded to a minimum of 6 photos total and remains responsive. | 5 |
| Gallery image special effects | The images are interactive upon hover and have a fallback for touch-only devices. (This cannot be for extra credit if your blog topic(s) overlap this topic.) | 10 |
| Additional blog article. | An additional blog article is included. | 15 |
| Bootstrap version | A bootstrap branch is created and a working About Me page showing all content is delivered using Bootstrap. A template can be used as starter. | 15 |
| Suggested by the student | Extra work proposed by the student and accepted for extra credit by the instructor. | Amount varies |

Name:

Web Design Assets Inventory

1. Color Theme
   1. Primary color for block elements
      1. Name Light Slate Gray
      2. Hex (#) value and RGB #91A0C0, RGB(145,160,192)
      3. Gradient values repeating-radial-gradient(#ec9535, #536178)(Goldenrod, Slate Gray)
   2. Secondary color for block elements
      1. Name Slate Gray
      2. Hex (#) value and RGB #536178 RGB(83,97,120)
      3. Gradient values (if used) none
   3. Grayscale (list all that are used) none
      1. Name none
      2. Hex (#) value and RGB none
      3. Gradient values (if used) none
   4. Color(s) for body text
      1. Name Black
      2. Hex (#) value and RGB #000, RGB(0,0,0)
      3. Background color hex(#) none
      4. Contrast ratio none
   5. Color(s) for display text
      1. Name Black
      2. Hex (#) value and RGB #000, RGB(0,0,0)
      3. Background color hex(#) none
      4. Contrast ratio none
2. Typography
   1. Display font family Josefin Slab, serif
      1. Weights (thin, regular, bold, etc) regular
      2. Styles (italic) none
   2. Body font family Josefin Slab, serif
      1. Weights (thin, regular, bold, etc) regular
      2. Styles (italic) none
   3. Heading(s) h1-h6 (list all)
      1. Font-family Josefin Slab, serif
      2. Font-size 200%
      3. Weight none
      4. Style H1- italic
   4. Drop Cap
      1. Font-family none
      2. Font-size none
      3. Weight none
      4. Style none
3. Imagery
   1. Profile
      1. Photo alt text “This is a picture of me”
      2. Caption none
      3. Filename & Link ‘images/Universal.jpg’
   2. Gallery (list all)
      1. Photo alt text “Finn and a butterfly”, Finn in cool sunglasses”, Finn readying for a nerf war”
      2. Caption “Finn catching a butterfly”, Finn looking cool in new shades”, “Finn getting ready for his nerf war b-day party”
      3. Filename & Link ‘images/butterfly-lrg.jpg’, ‘images/shades-lrg.jpg’, ‘images/camo-lrg.jpg’
   3. Blog Article Imagery (if appropriate, list all)
      1. Photo alt text, Caption, Filename & Link - none
      2. Embedded codepen none
      3. Element demonstrating concept none
      4. Other method of display none
4. Iconography
   1. Logo
      1. Picture (svg) TMFavicon.svg
      2. Filename & Link images/TMFavicon.jpg
   2. Favicon
      1. Picture (png) favicon.png
      2. Filename & Link images/favicon.png
   3. HTML icons (list all that are used)
      1. Icon font for GitHub link none
         1. Icon none
         2. Unicode none
         3. HTML none
      2. Icon font for others (list all that apply)
         1. Icon none
         2. Unicode none
         3. HTML none
5. Form
   1. Input
      1. Unfocused styles
      2. Focused styles Italic
   2. Textarea
      1. Unfocused styles none
      2. Focused styles none
   3. Radio Buttons
      1. Unfocused styles none
      2. Focused styles none
6. Submit Button
   1. Background color epeating-radial-gradient(#ec9535, #536178)(Goldenrod, Slate Gray)
   2. Border none
   3. Font-family ‘Josefin Slab, serif’
   4. Font-size 12
   5. Weight 50
   6. Hover behavior on click
   7. Click behavior ‘send’
7. Drop cap
   1. CSS code none
   2. Resource none
8. Blog Topic(s)
   1. Chosen topic Frameworks(Bootstrap, React, Angular, React)
   2. Resources W3Schools, ReactJS.org, freecodecamp.org, Angular.io/resources
   3. Draft visual example. Provide a short description of your example. I will be writing a blog about the usefulness of frameworks, their simplicity, the variety and use based on geographical location, and what each one has to offer for the developer.
9. Extra Credit (list all that apply)
   1. Deliverable Thanos Effect(blur wipe on image), I’m also aiming to add some React &/or Angular work into if I have enough time to properly learn how.
   2. Provide a short description of what is included hovering over or clicking on image will cause a white noise look to blur out said image and replace it with another image. React/Angular will be pretty basic intro to their frameworks.

Resources Code Pen, freecodecamp, Udemy course on React