Assignment #3: Web styling CSS Submission Date: During Week 14 Lab (Monday, December 30, 2024)

1. Instructions

- All students must have a GitHub account.
- Students complete the assignment in order.
- Each student MUST prepare the Assignment solution BEFORE ARRIVING WEEK 14 LAB, upload your solution to your GitHub, but you MUST combine and submit the assignment during the lab time. SUBMISSION PRE-PREPARED SOLUTION IS NOT ACCEPTED.
- Failure to attend week 14 lab and complete the assignment will result in a <u>ZERO</u> in this assignment.

2. Assignment description and requirements

The goal of this assignment is to Style the HTML pages that you created in ASSIGNMENT TWO using CSS. Through this assignment, you will select and style elements with CSS, build page layout, and use Flexbox box.

2.1. General instructions:

- 1- Don't modify the HTML pages that you created in ASSIGNMENT TWO. Your CSS must work with the HTML as provided.
- 2- Grading tip: you don't need to go back and fix your ASSIGNMENT 2 code if you didn't get something functioning before. You are welcome to correct any problems, however we will not consider the HTML from ASSIGNMENT 2 while reviewing this assignment.
- 3- No JavaScript, only CSS and HTML will be used for this assignment.
- 4- Points will be deducted from projects that are basic, hurried, bare bones, sloppy, and/or careless.
- 5- All pages on the website must have the same header, footer, and navigation.
- 6- The navigation bar for all pages on the website must contain working links to all of the pages that have been developed thus far.
- 7- All pages on your website must be styled with an **external style sheet** (no internal CSS), while inline styles may be used in extremely limited instances.
- 8- All CSS styles should be commented in a manner that is concise, meaningful, and wellformatted.
- 9- For all .css files you will create in the assignments you must have the following comment block:

```
/*
Name: Your Name
Course: CSE211 Web Programming
Assignment: Assignment No. -----
Date: ----/----
Description: The purpose of this .css is to style
the page(s) in this ......*/
```

- 10- Feel free to use online resources such as Stack Overflow, MDN, W3, and Google for REFERENCE but do not use any copyrighted content on your webpages.
- 11- Validate all HTML pages and CSS styles to ensure that your website is code-compliant and error-free.
- 12- Take screenshots of the validation results for all HTML and CSS pages and save them as images in the images folder.
- 13- You MUST use the folder structure that you created in ASSIGNMNET 2.

2.2. Specifications AND REQUIREMENST:

There are 3 tasks in this assignment

2.2.1. Task 1:

Create an external style sheet named "global.css" that configures the submitted website in ASSIGNMENT 2 according to the following design resources.

Task 1 Design Resources

1. Webpages Title:

- The font face is 'Verdana, Arial, or any sans-serif' and the fallback font is serif.
- The font size is 36px.
- The font weight is normal (not bold).
- The font color is white or as you specified in color palette in ASSIGNMENT 1.
- The title is vertical, and center aligned to the header image.

2. The body Element:

- Except where otherwise noted, all elements must have a border of Opt.
- Except where otherwise noted, text in the body of the document must be in a 14pt sans-serif font.
- Except where otherwise noted, text in the bodyof the document must be as follows.
 - The font face is 'Source Sans Pro', and the fallback font is sans-serif.
 - The line height is 32px.
 - · The font color is as you specified in color palette in ASSIGNMENT 1.

3. The header Element

- The contents must be centered.
- The text must be 18pt.
- The bottom margin must be 24pt.
- The font face is 'Roboto Slab', and the fallback font is serif.
- The font size is 36px.
- The font weight is bold.
- The title color is rgb (51, 51, 51) or as you specified in color palette in ASSIGNMENT 1.

4. In the header of section Elements

- The font face is 'Verdana, Arial, or any sans-serif' and the fallback font is serif.
- The font size must be 18pt.
- The text must be small caps (sometimes called a font variant).
- The text must be black.
- There must not be a border.
- The text must be straight/plain/normal.

- The contents must display "inline" (i.e., like words rather than like paragraphs).
- The bottom margin must be 12pt.

5. In section Elements

- The text must be bold.
- The bottom margin must be 6pt.

6. h1 Elements

Except where otherwise noted

- The text must be 18pt.
- The text must be italic.
- The bottom margin must be 6pt.

7. h2 Elements

Except where otherwise noted

- The color must be black.
- The text must be 16pt.
- The top margin must be Opt.
- The bottom margin must be 6pt.

8. a Elements

Normal Behavior

- The text must be #0D2636 in hexadecimal.
- The background must be 100, 123, 138 in decimal.
- The text must not be underlined (i.e., there must be no decoration) unless you hover over the link.

Hovering Behavior

- The text must be 194, 138, 154 in decimal.
- The text must be underlined.
- The background must be #4C0F20 in hexadecimal.

9. img Elements

- Must "float" appropriately.
- Its margin-left and margin-right is auto.
- Appropriate size.

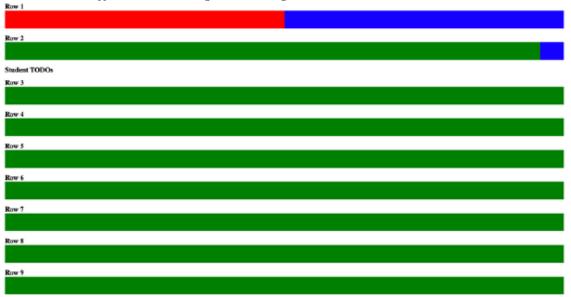
10. The footer Element

- The contents must be flush left.
- The text must be 10pt.

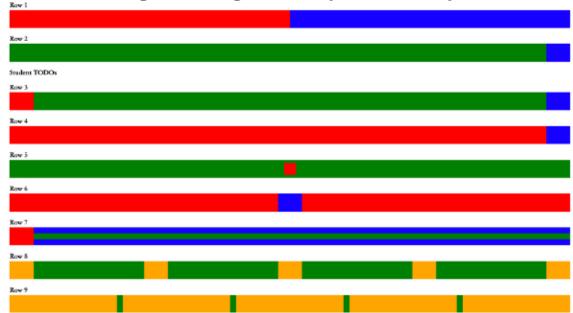
2.2.2. Task 2:

This task is to test how to align HTML elements using **flexboxes** as they are widely used in modern web development.

Assume you have given a webpage that contains 9 rectangles that look like the following. The width of these rectangles is the full width of the viewport. The styling and makeup of the first two rectangles are already built for you.



Your task is to develop a responsive webpage and apply stylings using **Flexbox** and **div** elements inside of the 7 green rectangular blocks (raw 3 -to- raw9) to looks like this:



None of the divs you create inside of the provided wrapper divs should have background-color: green;.

Try to style the **boxes** as closely to the solution image as possible. Your evaluation will depend on what structure, CSS styles you used, and the dynamic behavior of the page.

For reference,

· The color of the boxes are

background-color: red,blue,orange
background-color: FF0000, #0000FF, #FFA500

Some width/height values we used are 20px, 40px, 80px

Description and some hints for a possible approach:

- 1- For the third row, the red and blue end rectangles should remain the same width, and the green space should shrink. Use an appropriate value for justify-content.
- 2- For the fourth row, the blue end rectangle should remain the same width, and the red rectangle should shrink. Possible approach: have a fixed width on the blue div. Use flex-grow.
- 3- For the fifth row, the red square should remain the same size, but always remain in the center of the green rectangle. Hint: think about how to keep a div fixed size and how to align something in the absolute center of the parent element.
- 4- For the sixth row, the blue rectangle should remain the same size, while the red rectangles should shrink. The blue rectangle should remain in the center of the row.
- 5- For the seventh row, the red rectangle should remain the same width. Hint: Nest divs and use background-color: transparent
- 6- For the eighth row, the orange rectangles should remain the same size while the green space between them shrinks.
- 7- For the ninth row, the green space between the orange rectangles should remain the same width while the orange rectangles narrow.

2.2.3. Task 3:

This task is to transform a plain HTML template into a fully styled, responsive portfolio webpage using CSS. This project will test your understanding of modern CSS techniques and responsive design principles.

Task Description

You are provided with a complete HTML structure that includes detailed comments about styling requirements. Your task is to create the CSS necessary to transform the provided template into a professional webpage that works across all devices.

- 1- Download the template webpage "CSE211 Assignment-3 html template.html" [https://piazza.com/gu.edu.eg/fall2024/cse212/resources] and save it in your website public folder.
- 2- Download the images called image1, image2, image3, skills_1, skills_2, skills_3 "images" [https://piazza.com/gu.edu.eg/fall2024/cse212/resources] and save them in the images folder in your website. Use these images in the project cards in "My Projects" section and in the skill cards in "Skills" section.
- 3- Create a new CSS file in the public folder called "Ass3_task3.css". You will write all of the CSS for this assignment in this file.

4- Styling Implementation

- 4.1 Implement all styles as specified in the HTML comments.
- 4.2 Use CSS variables for color scheme and reusable values.

- 4.3 Implement all hover effects and transitions
- 4.4 Ensure proper spacing and alignment
- 5- Responsive Design
 - 5.1 Website must be fully responsive
 - 5.2 Implement mobile-first approach
 - 5.3 Create appropriate breakpoints for different screen sizes
 - 5.4 Ensure navigation is usable on mobile devices
- 6- Layout Requirements
 - 6.1 Fixed header that stays at top of page
 - 6.2 Full-height hero section
 - 6.3 Responsive grid for projects section
 - 6.4 Properly aligned and spaced content
 - 6.5 Consistent margins and padding
- 7- Visual Elements
 - 7.1 Implement specified color scheme
 - 7.2 Add all required transitions and animations
 - 7.3 Ensure proper contrast for readability
 - 7.4 Maintain consistent spacing throughout

8- Design Resources

- 8.1 Image Requirements
 - 8.1.1 Hero Section Background
 - Use: Hero.png
 - Dimensions: 1920x1080px
 - Dark overlay required (rgba (0, 0, 0, 0.7))
 - 8.1.2 Projects Images
 - image1.png: Website mockup (800x600px)
 - image2.png: Mobile app design (800x600px)
 - image2.png: E-commerce site (800x600px)
 - 8.1.3 Skill Section Icons

Use provided emojis or Font Awesome icons

- HTML5: skills_1.png
- CSS3: skills_2.png
- Responsive: skills 3.png
- 8.2 Layout Specifications
 - 8.2.1 Navigation
 - Height: 70px
 - Logo size: 1.5rem
 - Nav links padding: 0.5rem 1rem
 - Dropdown animation: 0.3s ease
 - 8.2.2 Hero Section
 - Full viewport height (100vh)
 - Content vertically and horizontally centered
 - Button padding: 1rem 2rem

8.2.3 Projects Grid

- Desktop: 3 columns
- Tablet: 2 columns
- Mobile: 1 column
- Gap: 2rem
- Card padding: 1.5rem

8.2.4 Contact Form

- Input height: 45px
- Textarea height: 150px
- Button width: 100% on mobile, auto on desktop

8.3 Color Codes CSS

```
:root {
   primary: #2c3e50;
   secondary: #3498db;
   accent: #e74c3c;
   text: #333333;
   light-bg: #f4f4f4;
}
```

8.4 Spacing System

- Section padding: 5rem 1rem
- Component gap: 2rem
- Content margin: 1.5rem
- Card padding: 1.5rem

8.5 Typography

- Headings: 'Segoe UI'
- Body: Tahoma, Geneva, sans-serif

Size scale:

h1: 3.5rem h2: 2.5rem h3: 1.8rem p: 1rem

8.6 Breakpoints CSS

Mobile: 0-768px Tablet: 768px-1024px Desktop: 1024px+

8.7 Animation Requirements

- Nav hover: 0.3s ease
- Project cards: transform translateY(-5px)
- Button hover: scale (1.05)
- Form inputs: focus border transition

2.3. General guidelines

- Do not use JavaScript. There's no need to use JavaScript in this assignment.
- Follow the best practices that were described in lectures and in the labs.
- Try not to have too many redundant styles, if there are ways to use inheritance or special selectors to concisely define style rules.
- · Use descriptive names, consistent spacing, and otherwise follow good code hygiene.

3. Method and significance of the assessment

- This coursework accounts for 10% of the whole course mark and is done INDIVIDUALLY.
- This assessment will demonstrate progression of the student's academic ability and is
 used to measure students' achievement intended learning outcomes (ILOs) [3.a.1, 3.a.2,
 3.a.3, 3.b.1, 3.c.1, 3.c.3 and 3.d.1].
- The marks will be awarded pro-rata, depending on the offered details, evidence of academic and technical talents, professionalism, and organization.
- A 40% reduction will be applied for each individual element if evidence of thoroughness is not adequate.
- If the student appears to be performing it right but makes a mistake, they will receive a maximum of 70% for any of the separate elements.

4. Marking schema:

- 30% of the mark for the evidence of the presented knowledge, understanding, completeness, and the contribution of the student.
- · 60% of the mark for providing the exact requirements stated in Section 2.
- 10% of the mark for uploading the project on GitHub and validation.

5. Feedback given to students in response to assessed work.

- · Specific oral feedback on the assessed components.
- Feedback for the HTML will be placed on the coursework assessment sheet returned with the coursework mark.
- During contact hours, students will receive oral generic comments on every part of their assignment..
- If students need more input, they are encouraged to speak with the teaching staff.

6. Deliverables

- The whole website must be submitted on GitHub during week 12 lab.
 - o Put your name, and ID at the head section of each webpage.
- Late submission, if there is a solid reason, is permissible during the next day subject to the arrangement with the teaching staff, however you will lose 50% of the coursework mark.
- · more than 48 hours delay is not accepted, and you will get ZERO in this assignment.

----- END -----

7. Rubrics

Project Topic Approval Rubric

	Outstanding 1 point	Developing ½ point	Needs Improvement 0 points
Website Name and Purpose	Clearly stated	Unclear	Missing
	Clearly described in terms of age, gender, interests, and socio-economic criteria.	Unclear or missing criteria	Missing or does not relate to the website purpose
	The type of text, graphics, and media needed for the website are clearly described.	Unclear or missing criteria	Missing or does not relate to the website purpose
Related or Similar websites		Listed one URL of a related/similar website	Less than two URLs listed or the websites are not related/similar
			Incomplete sentences, three or more grammar/spelling errors.

Planning Analysis Rubric

	Outstanding 2	Developing 1	Needs Improvement 0
Website Name / Goal	Clearly stated	Unclear	Missing
Page Titles		Lists more than four but less than seven titles	Lists less than five titles are listed.
Form	The use of a form in an appropriate manner is clearly described.	Unclear or inappropriate form use	Missing
	Lists at least four sources of content (facts, text, graphics, media)	Lists at least two sources of content	Lists less than two sources of content
Mechanics	Well organized, complete sentences, correct grammar and spelling.	Complete sentences, disorganized, less than three grammar/spelling errors	Incomplete sentences, three or more grammar/spelling errors

Site Map Rubric

	Outstanding 4-6 points	Developing 2-3	Needs Improvement 0-2
		Only one area of the site organization needs to be modified to result in a usable product.	Two or more areas of the site organization need to be modified.
	440	Lists more than four but less than seven pages	Lists less than five pages
Mechanics	_	Clearly labeled, readable	Unclear or not readable

Wireframe Rubric

	Satisfactory 2-4 points	Needs Improvement 0-2 points
Logo Area	Present	Missing
Navigation Area	Present	Missing
Content Area	Present	Missing
Footer Area	Present	Missing
Mechanics		Some improvement is needed in the organization and/or the document is not easy to read or understand.