Build and Style a Multi-Section Webpage Using CSS Selectors

Estimated Time: 2 hours

Task Description:

You will create a structured HTML webpage for a fictional **Portfolio Website** and style it using **CSS selectors**. You must include **universal selectors**, **type selectors**, **class selectors**, **ID selectors**, **descendant selectors**, **child selectors**, **attribute selectors**, **pseudo-classes**, **and pseudo-elements**. This task will help you practice applying selectors to different elements in a complex layout.

Part 1: HTML Structure

Create a structured webpage following these guidelines:

1. Header Section:

- Add a <header> tag.
- o Inside the header, include:
 - A main heading (<h1>) with the page title: "Welcome to My Portfolio".
 - A navigation menu (<nav>):
 - Add an unordered list (<u1>) with 3 links (<a>) to the sections "About", "Projects", and "Skills".

2. About Section:

- Use a <section> with an id="about".
- Add a heading (<h2>) with the title: "About Me".
- Write a paragraph () describing yourself (fictional content is fine).
- Add an image () to simulate a profile picture (use a placeholder link: https://via.placeholder.com/150).

3. Projects Section:

- Use a <section> with an id="projects".
- Add a heading (<h2>) titled "My Projects".
- Create a list of 3 projects using <div> elements:
 - Each project should have:
 - A project name inside an <h3> tag.
 - A description using a tag.
 - Add a unique class to each <div> for the projects (e.g., class="project1", class="project2", class="project3").

4. Skills Section:

- Use a <section> with an id="skills".
- Add a heading (<h2>) with the title: "My Skills".
- Create an unordered list () with 5 skills (e.g., "HTML", "CSS", "JavaScript", "Problem Solving", "Communication").

5. Footer Section:

- Use a <footer> tag.
- Add a paragraph with the text: "© 2024 My Portfolio".

Part 2: CSS Styling Instructions

Write all your CSS inside a <style> tag in the <head> section of the HTML document. Follow these instructions:

1. Universal Selector:

- o Remove default margins and padding.
- Set box-sizing: border-box.

2. Type Selectors:

- Style headings:
 - <h1>: Center the text and change its color to darkblue.
 - <h2>: Set font size to 24px and underline the text.
 - <h3>: Set font size to 20px and color to darkgreen.
- Style paragraphs () with line-height: 1.5 and font-size: 16px.

3. Class Selectors:

- Target the project sections (.project1, .project2, .project3):
 - Apply a unique background color for each project.
 - Add padding, margin, and a border.

4. ID Selectors:

- Style the "About" section (#about) with a light gray background and centered text.
- Style the "Skills" section (#skills) with a light yellow background and bold list items.

5. Descendant Selector:

- Target the list items () inside the navigation menu (<nav>):
 - Remove bullets and set text color to darkred.

6. Child Selector:

• Style all headings (<h3>) that are **direct children** of the "Projects" section.

7. Attribute Selectors:

Add a border to the image element using its src attribute:

```
Copy code
img[src] {
  border: 2px solid black;
  border-radius: 50%;
```

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8. Pseudo-Classes:

- Add a hover effect for navigation links (<a>):
 - Change text color to orange.
 - Add an underline on hover.
- 9. Pseudo-Elements:

```
Use ::before to add a star symbol before each skill in the "Skills" section.
```

Example:

CSS

CSS

}

```
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```

```
li::before {
  content: "  ";
}
```

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Acceptance Criteria

Your final webpage must include:

- 1. A well-structured HTML layout with:
 - Header, About, Projects, Skills, and Footer sections.

 - Classes and IDs applied appropriately to elements.

2. CSS Selectors Demonstrated:

- Universal Selector
- Type Selectors
- Class Selectors
- ID Selectors
- o Descendant Selectors
- Child Selectors

- o Attribute Selectors
- Pseudo-Classes (:hover)
- Pseudo-Elements (::before)

3. Styling Requirements:

- o Proper use of colors, padding, margins, and borders.
- o Hover effects for links.
- Unique background colors for each project.
- o Styled image (circular border).

4. Clean Code:

• HTML and CSS should be properly indented and include comments for clarity.

Bonus Task (Optional):

• Add the "Testimonials" section below "Projects" that includes at least 2 testimonials using

slockquote> tags and style them.

Submission Instructions:

- 1. Save your file as portfolio_selectors.html.
- 2. Submit the file on Github along with a screenshot of the rendered webpage.