# Introduction to HTML and CSS - Exercises

# **Topics Covered**

- What is HTML?
- **HTML Syntax**
- Tags:
  - o html, head, title, meta, body,
  - o h1, h2, h3, h4, h5, h6, p, a, strong, em, ul, ol, li, dl, dt, dd, img, blockquote
  - o main, aside, article, section, header, footer
  - details, summary, figure, caption
- What is CSS?
- CSS Syntax
- **Properties** 
  - background, color
  - border, border-radius
  - padding
  - o font-family, font-weight, font-style
  - text-decoraition
  - list-style

## Resources

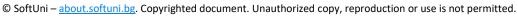
- **HTML Element references on MDN:** 
  - https://developer.mozilla.org/en-US/docs/Web/HTML/Element
- **HTML Basics** 
  - o https://developer.mozilla.org/en-US/docs/Learn/Getting started with the web/HTML basics
- **Semantics:** 
  - o https://developer.mozilla.org/en-US/docs/Glossary/Semantics
- **W3 Validator:** 
  - o https://validator.w3.org
- **CSS Basics:** 
  - o <a href="https://developer.mozilla.org/en-US/docs/Learn/Getting">https://developer.mozilla.org/en-US/docs/Learn/Getting</a> started with the web/CSS basics
- **CSS Reference:** 
  - o https://developer.mozilla.org/en-US/docs/Web/CSS/Reference

## **Tasks**

# 1. Simple image gallery

Build a simple image gallery using HTML and CSS to display a collection of images.



















## Requirements

- **HTML Document Setup:** 
  - Create an HTML document named image-gallery.html.
  - o Include a **<div>** container to hold the image gallery.
- **CSS File Setup:** 
  - Create a CSS file named gallery-styles.css.
  - Link the gallery-styles.css file to your image-gallery.html document using the link> tag in the <head> section.
- **Gallery Structure**:
  - o Inside the gallery container, use **<img>** tags to include the 12 provided images.
  - Optionally, wrap each <img> tag in an <a> tag so that the images can be clicked to view the full size in a new tab.

### Resources

- https://unsplash.com/
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/div
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul

#### 2. ToDo List

Build a simple ToDo List using HTML and CSS.

## Stuff to do

- 1. Trash 2. Dishes 3. Vacum

#### Done

## Requirements

- **HTML Document Setup:** 
  - Create an HTML document named todo-list.html.
  - Include a basic HTML structure (<!DOCTYPE html>, <html>, <head>, <body>).
- **CSS File Setup:** 
  - Create a CSS file named todo-list.css.
  - Link the todo-list.css file to your todo-list.html document using the link> tag in the <head> section.
- Structure:



















Use 2 unordered lists to represent tasks that are outstanding and tasks that are done

#### Resources

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul
- https://developer.mozilla.org/en-US/docs/Web/CSS/text-decoration

# 3. Navigation Bar

Build a simple navigation bar using HTML and CSS that includes links to different sections of a website.



# Requirements

- **HTML Document Setup:** 
  - Create an HTML document named navigation.html.
  - Include the basic **HTML** structure (doctype, html, head, body).
- **CSS File Setup:** 
  - Create a CSS file named navigation.css.
  - Link the navigation.css file to your navigation.html document using the <link> tag in the <head> section.
- Structure:
  - The navigation bar should be contained within a <nav> element.
  - Include an unordered list () within the <nav> element. Each item in the list () represents a link (<a>) to a section of the website (e.g., Home, About, Services, Contact).

#### Resources

https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav

# 4. List of blog posts

Develop a simple webpage that displays a list of blog posts, each with a title, an excerpt, and meta information including the post time and author.

# The Evolution of Web Design March 10, 2024 by Alex Johnson Web design has come a long way since the early days of the internet... **Understanding CSS Grid** March 15, 2024 by Sam Lee CSS Grid is a powerful layout system available in CSS...

# Requirements

- **HTML Document Setup:** 
  - Create an **HTML** document named **list-of-posts.html**.

















Ensure the document includes the basic HTML structure (doctype, html, head, body).

### **CSS File Setup:**

- Create a CSS file named list-of-posts.css.
- Link the list-of-posts.css file to your list-of-posts.html document using the <link> tag in the <head> section.

#### **Blog Posts Structure:**

- Use an **<article>** element for each blog post to semantically represent the content.
- Within each <article>, include a <header> element that contains the post title (<h2>), post time (<time>), and author (<span> or ).
- Follow the header with a paragraph () serving as the post excerpt or summary.

#### Resources

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/blockquote

# 5. Single blog post page with comments

Create a single blog post page that displays the post content along with a comments section below it.

## **Blog Post Title**

Posted by Author Name on January 24, 2024

This is the introduction of your blog post...

#### Comments

John Doe - January 25, 2024

This is a comment on the blog post.

## Requirements

#### **HTML Document Setup:**

- Create an HTML document named single-post.html.
- Include the standard HTML structure (<!DOCTYPE html>, <html>, <head>, <body>).

#### **CSS File Setup:**

- Create a CSS file named single-post.css.
- Link the single-post.css file to your single-post.html document using the <link> tag in the <head> section.

#### Structure:

- Use semantic **HTML** to structure the blog post. This should include a **<header>** with the post title (<h1>) and metadata such as the author and publish date ().
- Include a <main> section for the blog post content, utilizing for paragraphs, <h2> for subheadings, and other relevant tags as needed for the content (e.g., <img> for images, <br/> **blockquote>** for quotes).

















Below the blog post, include a <section> for comments. Each comment should be contained within an <article> tag, with a <header> for the commenter's name and the comment date, and a for the comment text.

#### Resources

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p

## 6. Blog layout

Create a responsive blog layout with a main content area for blog posts and a sidebar for supplementary content, using HTML and CSS.

# My Simple Blog **Blog Post Title** January 1, 2024 by Author Name This is a summary of the blog post... Read more. About Me Short bio or description about the blog author. Categories © 2024 My Simple Blog. All rights reserved

## Requirements

- **HTML Document Setup:** 
  - Create an HTML document named blog-layout.html.
  - o Include the standard HTML5 structure (doctype, html, head, body).
- **CSS File Setup:** 
  - Create a CSS file named blog-layout-styles.css.
  - Link the blog-layout-styles.css file to your blog-layout.html document using the link> tag in the <head> section.

#### **Blog Layout Structure:**

- Utilize semantic **HTML** tags to structure the layout, including **<header>**, **<main>**, **<article>**, **<aside>**, and <footer>.
- The **<header>** should contain the blog's title or logo and a navigation menu.
- The <main> area should display blog posts, each wrapped in an <article> tag, including titles (<h2>), publication dates (<time>), authors, summaries (), and read more links (<a>).
- The **<aside>** should serve as a sidebar, containing widgets or links such as "About Me", categories, recent posts, or social media links.
- The **<footer>** should contain copyright information and/or links to privacy policy, terms of service, etc.















