Assignment Submission Template

1. Student Registration Information

- **Full Name**: Samuel Lysias Chermont Spina
- **Student ID**: sls20hr
- **Course Name**: Web Applications Programming
- **Instructor Name**: Dr Ahsan Abdullah
- **Date of Submission (mm-dd-yyy)**: 06-20-2025

1. Assignment Overview (0.5 Points)

Assignment 4 - Nested Menu Navigation Webpage

Created a nested menu navigation page using HTML, CSS, and JavaScript with information about HTML, CSS, and JavaScript.

✅ **Requirement:**

- ☐ Title is present
- ☐ Objective clearly stated in 1–2 sentences

2. Code Implementation (2.0 Points)

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Web Development Topics</title>
   <link rel="stylesheet" href="css/style.css">
   <script src="js/script.js" defer></script>
</head>
<body>
   <header>
      <h1>Web Development Learning Resources</h1>
   </header>
   <main>
      <section class="subjects">
         <h2>Web Technologies</h2>
         <div class="subject" id="html">
            <h3>HTML</h3>
            <ul class="topics">
               <li><a href="topics/html/basics.html">HTML Basics</a></li>
               <li><a href="topics/html/forms.html">HTML Forms</a></li>
               <li><a href="topics/html/tables.html">HTML Tables</a></li>
               <li><a href="topics/html/semantic.html">Semantic Elements</a></li>
            </ul>
         </div>
         <div class="subject" id="css">
            <h3>CSS</h3>
            <ul class="topics">
               <li><a href="topics/css/basics.html">CSS Basics</a></li>
               <li><a href="topics/css/selectors.html">CSS Selectors</a></li>
               <li><a href="topics/css/box-model.html">Box Model</a></li>
               <li><a href="topics/css/flexbox-grid.html">Flexbox & Grid</a></li>
```
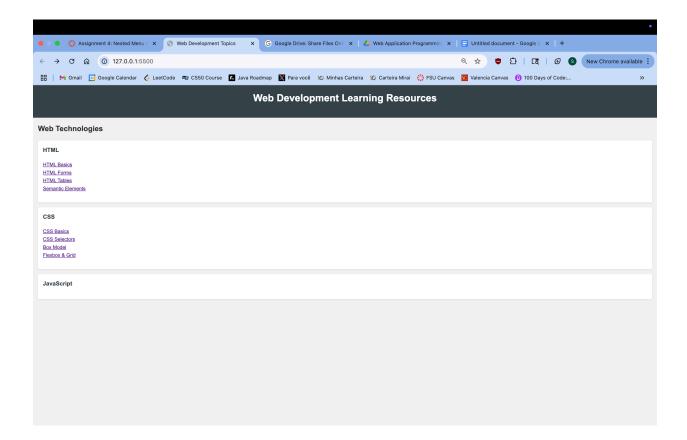
```html
            </ul>
        </div>
        <div class="subject" id="javascript">
            <h3>JavaScript</h3>
            <ul class="topics">
                <li><a href="topics/javascript/basics.html">JavaScript Basics</a></li>
                <li><a href="topics/javascript/functions.html">Functions</a></li>
                <li><a href="topics/javascript/dom.html">DOM Manipulation</a></li>
                <li><a href="topics/javascript/events.html">Events</a></li>
            </ul>
        </div>
    </section>
    </main>
</body>
</html>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Web Development Topics</title>
    <link rel="stylesheet" href="css/style.css">
    <script src="js/script.js" defer></script>
</head>
<body>
    <header>
        <h1>Web Development Learning Resources</h1>
    </header>
    <main>
        <section class="subjects">
            <h2>Web Technologies</h2>
            <div class="subject" id="html">
                <h3>HTML</h3>
                <ul class="topics">
                    <li><a href="topics/html/basics.html">HTML Basics</a></li>
```

```html
            <li><a href="topics/html/forms.html">HTML Forms</a></li>
            <li><a href="topics/html/tables.html">HTML Tables</a></li>
            <li><a href="topics/html/semantic.html">Semantic
Elements</a></li>
            </ul>
        </div>
        <div class="subject" id="css">
            <h3>CSS</h3>
            <ul class="topics">
                <li><a href="topics/css/basics.html">CSS Basics</a></li>
                <li><a href="topics/css/selectors.html">CSS Selectors</a></li>
                <li><a href="topics/css/box-model.html">Box Model</a></li>
                <li><a href="topics/css/flexbox-grid.html">Flexbox & Grid</a></li>
            </ul>
        </div>
        <div class="subject" id="javascript">
            <h3>JavaScript</h3>
            <ul class="topics">
                <li><a href="topics/javascript/basics.html">JavaScript
Basics</a></li>
                <li><a href="topics/javascript/functions.html">Functions</a></li>
                <li><a href="topics/javascript/dom.html">DOM
Manipulation</a></li>
                <li><a href="topics/javascript/events.html">Events</a></li>
            </ul>
        </div>
    </section>
  </main>
</body>
</html>
```

✅ **Requirement:**

- ☐ Code is complete and executable

- ☐ Proper indentation and formatting used

- ☐ Comments explain major components and logic

3. Results Screenshot(s) (1.0 Point)

Screenshot shows website output, showing all information in the website including its current image.

✅ **Requirement:**

- ☐ Screenshot(s) showing execution/output provided
- ☐ Descriptions accompany screenshots for clarity

---

4. Data or Output Results (2.0 Points)

Web Development Learning Resources

Web Technologies

HTML

CSS

JavaScript

✅ **Requirement:**

- ☐ Complete and relevant output included
- ☐ Output is clearly formatted and readable

---

5. Analysis of Results (1.5 Points)

I didn't made any mistake while doing the assignment.

✅ **Requirement:**

- ☐ Explanation of results
- ☐ Discussion of correctness and any limitations
- ☐ Personal reflections or insights

---

6. Conclusion (1.0 Point)

- Provide a **summary** of what was accomplished in the assignment.
- Mention any **improvements made**, lessons learned, or **ideas for future work**.

The assignment was interesting because was the first time using css and javascript together. A future idea is to make more section to the webpage.

✅ **Requirement:**

- ☐ Clear summary of outcomes
- ☐ Reflection on learning or future steps

---

7. Key Reflective Questions (1.5 Points)

- Answer all **three provided reflective questions**.
- Responses should show thoughtful engagement and originality.

1. Explain a specific part of your code that was most challenging to implement. Why was it difficult, and how did you resolve it?

The most difficult part was to make the subjects open the topics navigation.

---

2. If you had to modify your code to handle an additional feature (e.g., session expiration message or logging login attempts), where would you make the changes and why?

To make more topics and implement better visual aspects.

---

3. Describe a mistake you made during development and what you learned from it.

I actually think I didn't make any mistakes .

✅ **Requirement:**

- ☐ All reflective questions answered
- ☐ Answers are specific, clear, and thoughtful

---

8. Additional Comments – Bonus (0.5 Points) *(Optional)*

This assignment is a really good one to start using css with javascript. It helps to create new codes in javascript.

✅ **Optional Submission:**

- ☐ Additional comments or reflections included (for bonus consideration)