
Lab 3: HTML Basics — Structure & Semantic Markup

Step-by-Step Breakdown

🔧 1. Setup Your Environment

- **Install Tools:**
 - [VS Code](#)
 - [Live Server Extension](#)
 - [W3C HTML Validator](#)
 - **Create Project Folder:**
 - Name it something like `lab3-html-basics`
 - Inside, create `index.html`
-

2. Build Semantic Structure in `index.html`

Use semantic HTML5 tags to organize your page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Personal Webpage</title>
</head>
<body>

  <header>
    <h1>Welcome to My Webpage</h1>
    <p>Short intro or tagline</p>
  </header>

  <nav>
    <ul>
      <li><a href="#about">About Me</a></li>
      <li><a href="#projects">Projects</a></li>
      <li><a href="https://github.com/">GitHub</a></li>
    </ul>
  </nav>

  <main>
    <article id="about">
      <h2>About Me</h2>
      <p>Brief bio or description</p>
      
    </article>

    <aside>
      <h3>Quick Facts</h3>
      <ul>
```

```

        <li>Location: Punjab, Pakistan</li>
        <li>Interests: Web Development, AI</li>
        <li>Languages: English, Urdu</li>
    </ul>
</aside>

<article id="projects">
    <h2>Projects</h2>
    <ul>
        <li><a href="project1.html">Project 1</a></li>
        <li><a href="project2.html">Project 2</a></li>
    </ul>
</article>
</main>

<footer>
    <p>© 2025 Muhammad. All rights reserved.</p>
    <p><a href="mailto:muhammad@example.com">Contact Me</a></p>
</footer>

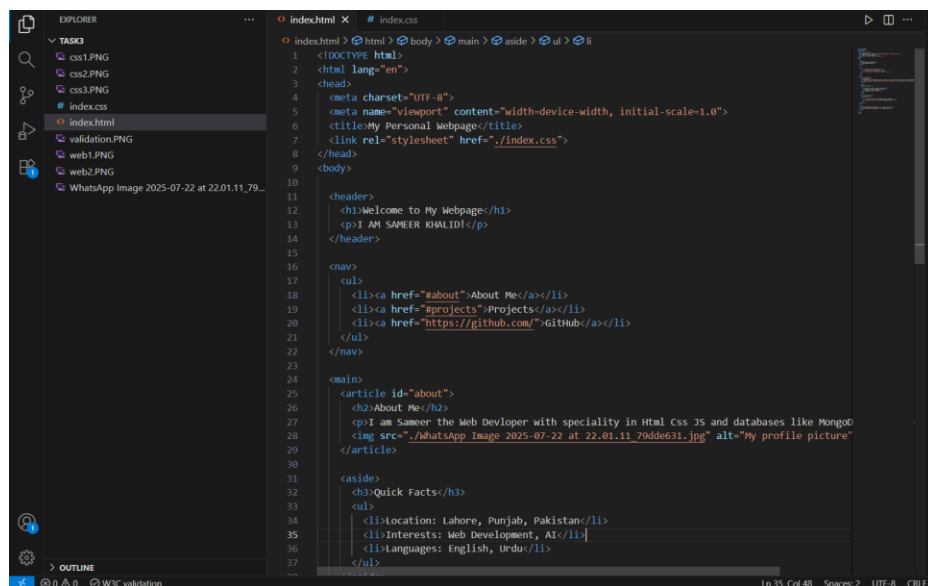
</body>
</html>

```

3. Add Content Elements

- **Images:** Use .jpg, .png, or .svg with descriptive alt attributes.
- **Lists:** Use or for facts, links, or features.
- **Links:**
 - Internal: href="#section-id"
 - External: href="https://..." with target="_blank" if needed.

- Use meaningful alt text for all images.
- Ensure link text is descriptive (avoid "click here").
- Use proper heading hierarchy (<h1> to <h3>).
- Label navigation clearly.



EXPLORER

TASKS

index.css

index.html

validation.PNG

web1.PNG

web2.PNG

WhatsApp Image 2025-07-22 at 22.01.11_79...

OUTLINE

index.css

45 nav a {

46 color: #fff;

47 text-decoration: none;

48 font-weight: 500;

49 transition: color 0.3s;

50 }

51

52 nav a:hover {

53 color: #00bcd4;

54 }

55

56 main {

57 display: flex;

58 flex-wrap: wrap;

59 justify-content: center;

60 gap: 2rem;

61 max-width: 1100px;

62 margin: 4rem auto;

63 padding: 0 1rem;

64 }

65

66

67 article {

68 background: #fff;

69 padding: 2rem;

70 border-radius: 10px;

71 box-shadow: 0 2px 10px rgba(0, 0, 0, 0.05);

72 flex: 1 1 400px;

73 min-width: 300px;

74 max-width: 500px;

75 }

76

77 article h2 {

78 font-size: 1.8rem;

79 margin-bottom: 1rem;

80 }

81

Ln 66, Col 1 Spaces: 2 UTF-8 CRU


Welcome to My Webpage

I AM SAMEER KHALID!

[About Me](#)[Projects](#)[GitHub](#)

About Me

I am Sameer the Web Developer with speciality in Html Css JS and databases like MongoDB ,SQL



Quick Facts

- Location: Lahore, Punjab, Pakistan
- Interests: Web Development, AI
- Languages: English, Urdu

Projects

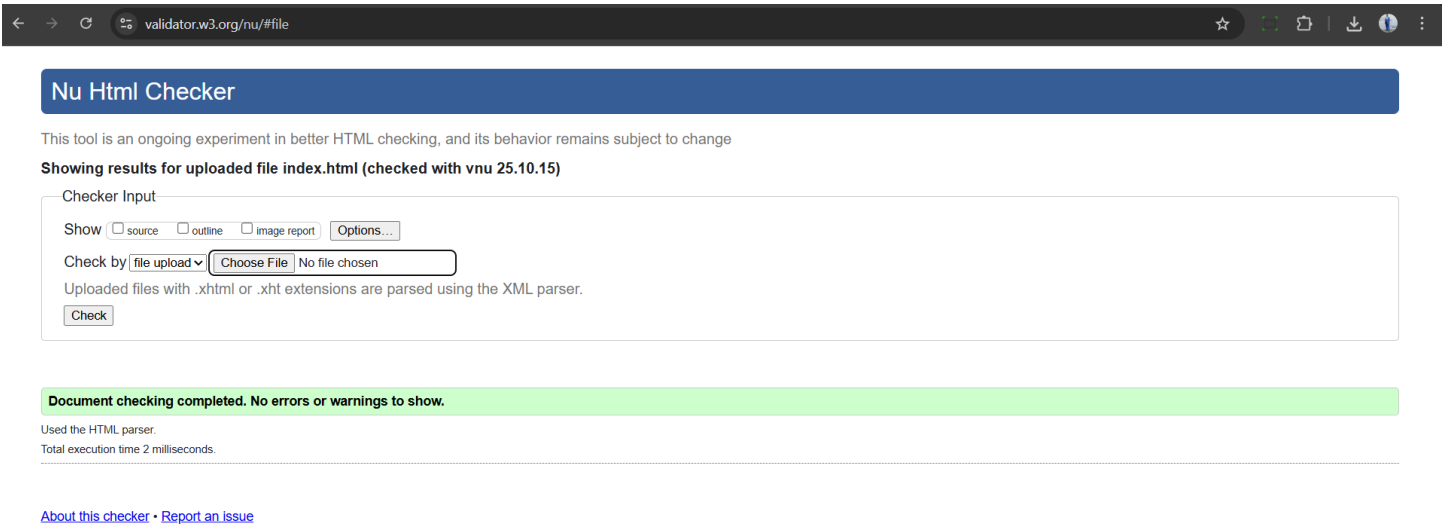
- [Authenticuation System](#)
- [Amazon Frontend Clone](#)

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[Contact Me](#)

5. Validate HTML

- Go to [W3C Validator](#)
- Upload or paste your HTML code.
- Fix any warnings or errors (e.g., missing alt, unclosed tags).



6. Final Deliverables

Requirement	Description
✓ Semantic Usage (4)	Use of header, nav, main, article, aside, footer
✓ Accessibility (3)	Alt text for images, clear labels, heading structure
✓ Validation (3)	Pass W3C validation with no errors or warnings
✓ Hosting	Push to GitHub repo or local server using Live Server
✓ Report	Save validation screenshot or summary in repo (e.g., validation.txt)

CONCLUSION:

RUBRICS:

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

instructor Signature_____