HTML Advanced

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July 9, 2025

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1 Semantic HTML

- Semantic HTML enhances the meaning of your content, improves accessibility, and boosts SEO.
- Semantic HTML uses elements that clearly describe their meaning in a human- and machinereadable way.
- For example, <article>, <section>, and <nav> tell you what kind of content they hold, unlike <div> or .

1.1 Common Semantic Elements

- 1. <header> for introductory content.
- 2. <nav> for navigation links. We can have multiple <nav> elements in one web page.
- 3. <main> for the main content of the page.
- 4. <section> for grouping similar content together.
- 5. <article> for self-contained content.
- 6. <aside> for additional content, or ads.
- 7. <footer> for the footer portion.
- 8. <time>, <address>, and so on.

2 Forms and Inputs

• All this while, we have presented information to the user. Forms help us make our websites interactive by allowing the user to send us data.

```
<article>
    <label for="year-of-birth">Enter your year of birth</label>
   <input type="number" name="year-of-birth" id="year-of-birth"</pre>
          min="2000" max="2005" step="1" value="2003">
 </article>
 <article>
    <label for="department">Enter your department:</label>
   <select name="department" id="department">
      <option value="cse">Computer Science & Engineering</option>
      <option value="ece">Electronics & Communication Engineering</option>
      <option value="ee">Electrical Engineering</option>
   </select>
 </article>
 <button type="submit">Submit
 <button type="reset">Reset</button>
</form>
```

3 Example Well-Structured Semantic HTML

```
<!DOCTYPE html>
<html lang="en">
 <head>
   <meta charset="UTF-8" >
   <meta name="viewport" content="width=device-width, initial-scale=1.0" >
   <title>Firstname Lastname - Resume</title>
 </head>
 <body>
   <header>
     <h1>Firstname Lastname</h1>
     <address>
       <111>
         Phone: 1234567890
         <Email: <a href="mailto:firstname@email.com">firstname@email.com</a>
       </111>
     </address>
   </header>
   <main>
     <section>
       <h2>Education</h2>
       <l
         UEM Jaipur
```

```
High School
      </section>
     <section>
      <h2>Experience</h2>
      <article>
        <h3>Technology Company</h3>
        Internship for 6 months
      </article>
      <article>
        <h3>Another Technology Company</h3>
        Internship for 3 months
      </article>
     </section>
     <section>
      <h2>Skills</h2>
      <l
        HTML
        <1i>CSS</1i>
        JavaScript
        React.js
      </section>
     <section>
      <h2>Hobbies</h2>
      <l
        Listening to music
        Reading books
      </section>
   </main>
 </body>
</html>
```