

Week One

Date: 22-03-2025

Module 1

Introduction to Web Development &amp; HTML Basic

## What is HTML?

HTML (Hyper Text Markup Language ) is the most basic building block of the web. It define teh meaning and structure of web content other technologies beside HTML are generally used to describe a web page's appearance/presentation (CSS) or functionally/behaviour (JavaScript)

# STRUCTURE OF AN HTML DOCUMENT

- `<!DOCTYPE html>`
- `<html>`
- `<head>`
- `<body>`

```
<!DOCTYPE html>

<html>

  <head>

    <title> Title Here</title>

  </head>

  <body>

    Web Page Content Goes Here.

  </body>

</html>
```

## Explanation

- `<!DOCTYPE html>`: Declares the document type.**
- `<html>`: The root element.**
- `<head>`: Contains meta-information (title, links, scripts).**
- `<title>`: Sets the title of the webpage.**
- `<body>`: Contains the visible content.**

## Basic HTML Elements

# Headings, Paragraphs, and Text Formatting:

`<h1>Heading 1</h1>`

`<h2>Heading 2</h2>`

`<p>This is a paragraph. <strong>Bold text</strong> and <em>italic text</em>. </p>`

`<h1>` to `<h6>`: Headings (largest to smallest).

`<p>`: Paragraphs.

`<strong>`: Bold text.

`<em>`: Italic text.

### Head Tags

`<title>`

`<meta>`

`<script>`

`<style>`

### Content Tags

`<h1>` to `<h6>`

`<span>`

`<strong>`

`<div>`

### List Tags

`<ul>`

`<ol>`

`<li>`

### Important Tags

#### Empty Tags

`<br>`

`<hr>`

`<img>`

`<input>`

`<link>`

`<meta>`

# Lists

---

- **Ordered List**
- **Unordered List**

## *Ordered List*

```
<ol>

  <li>First item</li>

  <li>Second item</li>

</ol>
```

## *Unordered List*

```
<ul>

  <li>First item</li>

  <li>Second item</li>

</ul>
```

## Explanation

```
<!DOCTYPE html>: Declares the document type.

<html>: The root element.

<head>: Contains meta-information (title, links, scripts).

<title>: Sets the title of the webpage.

<body>: Contains the visible content.
```

# Links, Images, and Buttons:

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## Link

- `<a href="https://www.example.com">Visit Example</a>`
- `<a href="https://www.example.com" target="_blank">Open in new tab</a>`
- `<a href="mailto:example@example.com">Send Email</a>`
- `<a href="#section1">Jump to Section 1</a>`

**href=>Hypertext Reference**

## Images

```

```

```

```

**Src => External/internal resource / source url**

## Button

```
<button>Submit</button>
```

# Block and Inline Elements

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- Block Elements

```
<div>This is a block element. </div>
```

```
<article>This is a block element. </article>
```

```
<section>This is a block element. </section>
```

```
<header>This is a block element. </header>
```

```
<footer>This is a block element. </footer>
```

- Inline Elements

```
<span>This is a inline element. </span>
```

```
<a href="#">This is a inline element. </a>
```

```
<strong>This is a inline element. </strong>
```

```
<em>This is a inline element. </em>
```

## Week Two

Date: 25-03-2025 To 29-03-2025

## Module 2

HTML Forms, Tables &amp; Semantic Elements

## HTML Forms

# 1. Introduction to Forms

- Forms are used to collect user input and send it to a server for processing.
- Basic Structure:

```
<form action="submit.php" method="POST">  
  
  <!-- Input fields go here -->  
  
</form>
```

# 2. Input Fields and Labels

- Text Fields:

```
<label for="name">Name:</label>  
  
<input type="text" id="name" name="name" placeholder="Enter your name">
```

- Password Field:

```
<label for="name">Name:</label>  
  
<input type="text" id="name" name="name" placeholder="Enter your name">
```

## 3. Checkboxes and Radio Buttons

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- Checkbox (Multiple Selections):

```
<label>  
  
<input type="checkbox" name="subscribe" value="yes"> Subscribe to newsletter  
  
</label>
```

- Radio Buttons (Single Selection):

```
<p>Gender:</p>  
  
<label>  
  <input type="radio" name="gender" value="male"> Male  
</label>  
  
<label>  
  <input type="radio" name="gender" value="female"> Female  
</label>
```

## 4. Dropdown

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- Create a dropdown menu:

```
<label for="country">Country:</label>  
  
<select id="country" name="country">  
  <option value="usa">USA</option>  
  <option value="canada">Canada</option>  
  <option value="uk">UK</option>  
</select>
```

## 5. Submit Button and Form Submission

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- **Submit Button:** Sends form data to the server.

```
<button type="submit">Submit</button>
```

- **Action Attribute:** Specifies where the form data is sent.

```
<form action="submit.php" method="POST">
```

### METHOD ATTRIBUTE:

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- **GET:** SENDS DATA IN THE URL (LESS SECURE, GOOD FOR SEARCH QUERIES).
- **POST:** SENDS DATA IN THE BODY (MORE SECURE, USED FOR SENSITIVE INFO).