

# MERN Stack Journey

## Class 1: Introduction to HTML & CSS (HTML Basics)

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### 1. What is HTML?

HTML (HyperText Markup Language) is used to create the **structure of web pages**. It tells the browser *what* content to display.

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### 2. Basic Structure of an HTML Document

Every HTML file follows a fixed structure.

#### Correct Basic Structure

```
<!DOCTYPE html>
<html>
  <head>
    <!-- Metadata goes here -->
  </head>
  <body>
    Your code goes here
  </body>
</html>
```

#### Explanation:

- `<!DOCTYPE html>` → Tells the browser this is an HTML5 document
- `<html>` → Root element of the page
- `<head>` → Contains metadata (title, links, styles)
- `<body>` → Contains visible content of the web page

 **Important Note:** All visible content must be written **inside the `<body>` tag**.

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#### MCQ Practice

##### Q1. What is the correct basic structure of an HTML document?

A)

```
<!DOCTYPE html>
<html>
```

```
<head></head>
<body>
    Your code goes here
</body>
</html>
```

B)

```
<!DOCTYPE html>
<html>
    <head>
        Your code goes here
    </head>
</html>
```

 Answer: A

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**Q2. According to the basic structure of HTML, your code goes inside the `<body>` tag.**

- A) True
- B) False

 Answer: True

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### 3. Heading Element

The HTML heading element is used to define headings.

#### Example:

```
<h1>Tourism</h1>
```

#### Key Points:

- `<h1>` defines the **main heading**
- Headings range from `<h1>` (largest) to `<h6>` (smallest)

#### MCQ Practice

**Q1. The HTML `h1` element is known as the \_\_\_\_\_ element.**

- A) Paragraph
- B) Button
- C) Main heading

 **Answer:** Main heading

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**Q2. Which of the following is the start tag of an HTML main heading element?**

- A) </h1>
- B) <heading>
- C) <h1>

 **Answer:** <h1>

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**Q3. Which of the following is the end tag of an HTML main heading element?**

- A) </h1>
- B) <heading>
- C) <h1>

 **Answer:** </h1>

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## 4. Paragraph Element

The HTML paragraph element is used to define paragraphs.

**Example:**

```
<p>Plan your trip wherever you want to go</p>
```

### MCQ Practice

**Q1. Which of the following is the start tag of an HTML paragraph element?**

- A) <h1>
- B) <paragraph>
- C) <p1>
- D) <p>

 **Answer:** <p>

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**Q2. Which of the following is the end tag of an HTML paragraph element?**

- A) </p>
- B) </paragraph>
- C) <p>

 **Answer:** </p>

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## 5. Button Element

The HTML button element is used to create clickable buttons.

### Example:

```
<button>Get Started</button>
```

### MCQ Practice

**Q1. Which of the following is the start tag of an HTML button element?**

- A) </button>
- B) </p>
- C) <button>
- D) <h1>

 **Answer:** <button>

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**Q2. Which of the following is the end tag of an HTML button element?**

- A) </button>
- B) </p>
- C) <button>
- D) <h1>

 **Answer:** </button>

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## 6. First HTML Code (index.html)

This is the first complete HTML file created in class.

```
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1>Tourism</h1>
    <p>Plan your trip wherever you want to go</p>
    <button>Get Started</button>
  </body>
</html>
```

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## 7. Interview Questions (Class 1 – HTML Basics)

### Basic Level

1. What is HTML and why is it used?
2. What is the purpose of `<!DOCTYPE html>`?
3. What is the difference between `<head>` and `<body>`?
4. Which tag is used for the main heading in HTML?
5. What does the `<p>` tag represent?

### Medium Level

1. Can an HTML page work without a `<body>` tag? Why?
2. What happens if you forget to close a tag?
3. Difference between `<h1>` and `<h6>`?
4. Is HTML a programming language? Explain.

### Interview Tip Answer (Sample)

"HTML is a markup language used to structure web content. It defines elements like headings, paragraphs, and buttons which are rendered by the browser."

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## Summary

- HTML defines the structure of a webpage
- Every HTML document has a basic structure
- `<h1>` → Main heading
- `<p>` → Paragraph
- `<button>` → Button element

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 **Next Class:** Introduction to CSS & Styling Basics

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 *Prepared as part of my MERN Stack Journey*