# ProSensia Internship Report Week 1

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# Frontend development Report

## **Introduction to Web Development**

Web development involves creating websites or web applications for the internet. It includes both front-end (what users see) and back-end (server-side) development. This report focuses on the **front-end foundation** — specifically **HTML** (**HyperText Markup Language**), which is the basic building block of any webpage.

## Day 1: What is HTML? Structure of HTML

**HTML** (**HyperText Markup Language**) is used to structure content on the web. It tells the browser how to display text, images, links, and more.

#### **Basic HTML structure:**

- <! DOCTYPE html>: Declares the document type.
- <html>: Root element.
- <head>: Metadata (title, styles, etc.).
- <title>: Sets the page title.
- <body>: Visible page content.

#### Day 2: Basic Tags

- <html>: Root of HTML document.
- <head>: Metadata section.
- <body>: Contains visible content.

- <title>: Title in browser tab.
- <h1> to <h6>: Headings from largest (<h1>) to smallest (<h6>).
- : Paragraph.
- <br/>
  <br/>
  Line break.
- <hr>>: Horizontal line.

## **Example:**

```
<h1>Welcome to My Page</h1>
This is a paragraph.<br>Here is a new line.
<hr>
```

# **Day 3: Lists and Tables**

#### Lists

- ul>: Unordered List (bullets)
- Ordered List (numbers)
- List Item

```
Milk
Bread
```

#### **Tables**

- : Defines a table
- : Table row
- : Table data
- >: Table heading

# **Day 4: Forms and Validation**

HTML forms collect user input.

#### **Form Elements:**

• <form>: The form container

- <input>: Single-line input (text, email, password, etc.)
- <textarea>: Multi-line input
- <select>: Dropdown menu
- <option>: Options inside select
- <button>: Clickable button
- <label>: Labels for input fields

#### **Example with Validation:**

```
<form>
    <label for="name">Name:</label>
    <input type="text" id="name" required>

    <label for="email">Email:</label>
    <input type="email" id="email" required>

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

# Day 5: Media Tags

- <img>: Embeds an image
- <audio>: Embeds audio
- <video>: Embeds video
- <iframe>: Embeds another web page or YouTube video

#### **Example:**

# **Day 6: Semantic Tags**

Semantic tags make the structure of the HTML more meaningful and accessible.

- <header>: Introductory content
- <nav>: Navigation links
- <section>: Thematic grouping of content
- <article>: Self-contained content (e.g., blog post)
- <aside>: Sidebar content
- <footer>: Footer section

#### **Example:**