Industrial Training Daily Diary

MERN Stack Training

Company: Sensation Software Solutions
Student Name: Gurvinder Singh
Training Duration: 6 Months
Day: 2

Day 2 – Basics of HTML & Structure of Web Pages

Objective of the Day

The main objective of Day 2 was to understand the **fundamentals of HTML (HyperText Markup Language)** and learn how basic web pages are structured. This session focused on building a strong foundation for frontend development, which is essential before moving to advanced technologies like React.

Introduction to HTML

On Day 2, the trainer introduced **HTML**, which is the core building block of web development. HTML is used to create the **structure** of a web page. The trainer explained that HTML is not a programming language but a **markup language** used to define elements on a webpage.

We learned that every website on the internet starts with HTML, and even modern frameworks like React ultimately generate HTML that the browser understands.

Structure of an HTML Document

The trainer explained the basic structure of an HTML document in detail:

- `<!DOCTYPE html>` – Tells the browser that the document is written in HTML5
- `<html>` – Root element of the HTML page
- `<head>` – Contains metadata like title, charset, and links
- `<title>` – Title shown on browser tab
- `<body>` – Main content visible to users

We understood how proper structure helps browsers render pages correctly and improves SEO.

Commonly Used HTML Tags

The trainer demonstrated many important HTML tags:

- Headings (`<h1>` to `<h6>`) – Used for titles and headings
- Paragraph (`<p>`) – Used for text content
- Line break (`<br>`) and horizontal rule (`<hr>`)
- Bold (`<b>`), Italic (`<i>`), Strong (`<strong>`)
- Anchor tag (`<a>`) – Used for links
- Image tag (`<img>`) – Used to display images

We also learned about **attributes** such as `href`, `src`, `alt`, `width`, and `height`.

Lists in HTML

The trainer explained different types of lists:

- Ordered List (`<ol>`)
- Unordered List (`<ul>`)
- List Item (`<li>`)

Lists are useful for menus, navigation bars, and structured data. We practiced creating lists with multiple items.

HTML Forms Introduction

We were introduced to **HTML forms**, which are used to collect user input. The trainer explained:

- `<form>` tag
- `<input>` types (text, password, email, submit)
- `<label>` tag
- `<textarea>`
- `<button>`

Forms play a very important role in login pages, signup pages, and data submission.

Practical Work Done

During the practical session, we:

- Created a basic HTML page
- Used headings, paragraphs, and images
- Created a navigation menu using lists
- Designed a simple contact form

This hands-on practice helped us understand how HTML elements work together.

Importance of HTML in MERN Stack

The trainer explained that even though React is used for frontend development, a strong understanding of HTML is mandatory. JSX in React is very similar to HTML, so learning HTML properly makes React easier.

Conclusion of Day 2

Day 2 helped me understand the foundation of web development. I learned how web pages are structured and how content is displayed using HTML. This knowledge will be very helpful when we start working with CSS, JavaScript, and React components.

Outcome of the Day:

- Clear understanding of HTML basics
- Knowledge of document structure
- Familiarity with common tags and forms
- Hands-on practice with simple web pages