Industrial Training Daily Diary

MERN Stack Training

Company: Sensation Software Solutions
Student Name: Tajinder Kaur
Training Duration: 6 Months
Day: 3

Day 3 – Introduction to CSS & Styling Web Pages

Objective of the Day

The objective of Day 3 was to understand the basics of **CSS (Cascading Style Sheets)** and learn how CSS is used to style and design HTML web pages. This session focused on improving the visual appearance of web pages and understanding how layout and design play a vital role in user experience.

Introduction to CSS

On Day 3, the trainer introduced **CSS**, which is used to control the **look and feel** of a website. While HTML defines the structure of a webpage, CSS is responsible for colors, fonts, spacing, alignment, and overall layout.

The trainer explained that CSS helps in separating content from design, which makes websites easier to maintain and scale.

Types of CSS

We learned about the three different ways to apply CSS:

1. **Inline CSS** – Applied directly inside HTML tags using the `style` attribute.
2. **Internal CSS** – Written inside the `<style>` tag within the `<head>` section.
3. **External CSS** – Written in a separate `.css` file and linked to HTML.

The trainer emphasized that **external CSS** is the most preferred method in professional development.

CSS Syntax and Selectors

The trainer explained the basic syntax of CSS:

- Selector – Target HTML element
- Property – Style attribute
- Value – Assigned value

Common CSS Selectors

- Element selector (`p`, `h1`)
- Class selector (`.container`)
- ID selector (`#header`)
- Universal selector (`*`)
- Group selector

We learned how selectors help in targeting specific elements for styling.

CSS Properties

The trainer demonstrated commonly used CSS properties:

- Color and background-color
- Font-size, font-family, font-weight
- Text-align and text-decoration
- Width and height
- Margin and padding
- Border and border-radius

We practiced changing the appearance of text and containers using these properties.

Box Model Concept

One of the most important topics covered was the **CSS Box Model**. The trainer explained that every HTML element is treated as a rectangular box consisting of:

- Content
- Padding
- Border
- Margin

Understanding the box model is crucial for layout design and spacing control.

Practical Work Done

During the practical session, we:

- Linked an external CSS file to HTML
- Styled headings, paragraphs, and images
- Created styled navigation menus
- Applied margins and padding
- Experimented with different colors and fonts

This practical work helped in understanding how CSS affects webpage layout.

Importance of CSS in MERN Stack

The trainer explained that even though React is used for frontend development, CSS is still used for styling React components. Concepts like class names, inline styles, and external stylesheets are directly applicable in React using JSX.

Conclusion of Day 3

Day 3 helped me understand how to design and style web pages using CSS. I learned how CSS improves user experience and makes websites visually appealing. This knowledge will be very useful when creating responsive and professional web applications.

Outcome of the Day:

- Understanding of CSS basics
- Knowledge of selectors and properties
- Clear concept of box model
- Hands-on styling practice