

## 1. Introduction to CSS

- 1.1 What is CSS?
- 1.2 Role of CSS in Web Development
- 1.3 Types of CSS (Inline, Internal, External)
- 1.4 CSS Syntax and Selectors Overview

## 2. CSS Selectors

- 2.1 Basic Selectors (e.g., Type, Class, ID)
- 2.2 Grouping and Universal Selectors
- 2.3 Attribute Selectors
- 2.4 Pseudo-classes (`:hover`, `:focus`, etc.)
- 2.5 Pseudo-elements (`::before`, `::after`, etc.)

## 3. CSS Box Model

- 3.1 Understanding Content, Padding, Border, and Margin
- 3.2 Border Properties (Style, Width, Color, Radius)
- 3.3 Margin and Padding Properties
- 3.4 Box Sizing (`content-box` vs. `border-box`)

## 4. CSS Colors and Backgrounds

- 4.1 Color Formats (Named, HEX, RGB, HSL)
- 4.2 Background Properties (`background-color`, `background-image`)
- 4.3 Gradient Backgrounds (Linear, Radial)
- 4.4 Advanced Background Techniques

## **5. CSS Text and Fonts**

5.1 Font Properties (`font-family`, `font-size`, `font-weight`)

5.2 Text Properties (`color`, `text-align`, `line-height`)

5.3 Text Effects (Shadows, Decoration)

5.4 Using Google Fonts and Web Fonts

## **6. CSS Positioning**

6.1 Static Positioning (Default)

6.2 Relative, Absolute, and Fixed Positioning

6.3 Sticky Positioning

6.4 Z-index and Stacking Context

## **7. CSS Layouts**

7.1 Display Properties (`block`, `inline`, `inline-block`, `none`)

7.2 Floats and Clearfix

7.3 Flexbox Layout

7.3.1 Flex Container and Flex Items

7.3.2 Justify Content, Align Items, Align Self

7.3.3 Flexbox Practical Examples

7.4 Grid Layout

7.4.1 Grid Container and Grid Items

7.4.2 Defining Rows and Columns

7.4.3 Grid Template Areas

## **8. CSS Responsive Design**

8.1 Introduction to Media Queries

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8.2 Breakpoints and Fluid Layouts

8.3 CSS Units (px, %, em, rem, vh, vw)

8.4 Mobile-First Design Principles

## **9. CSS Animations and Transitions**

9.1 CSS Transitions (e.g., `transition-property`, `duration`)

9.2 CSS Animations (`@keyframes`, `animation` properties)

9.3 Transformations (`scale`, `rotate`, `translate`, `skew`)

9.4 Hover and Focus Animations

## **10. CSS Frameworks (Introduction)**

10.1 What are CSS Frameworks?

10.2 Overview of Popular Frameworks (Bootstrap, Tailwind CSS)

10.3 Advantages and Disadvantages of Frameworks

## **11. CSS Best Practices**

11.1 Writing Clean and Maintainable CSS

11.2 Naming Conventions (BEM, SMACSS)

11.3 Avoiding Redundancy and Overwriting Styles

11.4 Performance Optimization

## **12. Project**

12.1 Creating a Responsive Web Page

12.2 Using Flexbox or Grid for Layouts

12.3 Adding Animations and Transitions

12.4 Styling Forms and Buttons