Introduction to Web Development

Overview

Web development involves building websites and applications for the internet. It can be categorized into front-end, back-end, and full-stack development.

Importance

Web development skills are essential as most businesses and individuals rely on websites for communication, marketing, and other functions.

HTML: The Structure of Web Pages

What is HTML?

HTML (Hypertext Markup Language) is the standard language for creating web pages. It structures content by defining elements like headings, paragraphs, and images.

HTML Elements

HTML documents are composed of elements such as <div>, <p>, <a>, etc., which define the structure and content of the web page.

HTML Attributes

Attributes provide additional information about elements, such as 'href' in <a> for links or 'src' in <img> for images.

CSS: Styling the Web

What is CSS?

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CSS (Cascading Style Sheets) is used to style HTML elements. It controls the appearance of content, including layout, colors, and fonts.

CSS Selectors

CSS selectors allow developers to target HTML elements for styling, such as by element, class, or ID.

CSS Properties

CSS properties control various aspects of styling, such as color, font-size, margin, padding, and positioning.

JavaScript: Adding Interactivity

What is JavaScript?

JavaScript is a programming language used to add interactivity to web pages, making them dynamic and responsive to user actions.

JavaScript Functions

Functions in JavaScript are blocks of code designed to perform specific tasks. They help to structure and reuse code.

JavaScript and the DOM

The DOM (Document Object Model) represents the HTML structure as an object that JavaScript can manipulate to update content dynamically.