€ TRAINING

Mastering HTML for Effective Web Development

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Introduction:

This training program offers a comprehensive understanding of HTML HyperText Markup Language, from basic structure to advanced techniques. It empowers participants to create well-structured, accessible, and interactive web pages, providing the foundation for web development.

Program Objectives:

By the end of this program, participants will be able to:

- Understand the basic structure and syntax of HTML.

- Develop well-organized, semantic web pages.

- Implement multimedia, links, forms, and tables in HTML.

- Use advanced HTML features for interactive and dynamic content.

- Ensure web accessibility and optimize for SEO.

Target Audience:

- Aspiring Web Developers.

- Front-End Developers.

- Designers looking to enhance their coding skills.

- IT Professionals interested in web development.

Program Outline:

Unit 1:

Introduction to HTML and Basic Page Structure:

- Understanding the purpose of HTML in web development.

- Overview of HTML document structure: doctype, head, and body tags.

- Writing semantic HTML: headers, paragraphs, lists, and divs.

- Adding images, links, and basic formatting.

- Structuring content for clarity and readability.

Unit 2:

Forms, Tables, and Multimedia in HTML:

- Creating and handling HTML forms for user input.

- Understanding form elements: input fields, buttons, checkboxes, etc.

- Creating tables for displaying tabular data.

- Embedding multimedia: audio, video, and images.

- Ensuring cross-browser compatibility for multimedia content.

Unit 3:

HTML5 and Advanced Features:

- Introduction to HTML5 and its new elements.

- Using semantic HTML5 elements: , , ,, etc.

- Creating responsive web designs using HTML5.

- Integrating interactive content with HTML5 APIs e.g., Geolocation, Canvas.

Unit 4:

Accessibility and SEO Best Practices:

- Ensuring accessibility: writing accessible HTML for users with disabilities.

- Using ARIA Accessible Rich Internet Applications attributes.

- Optimizing HTML for search engines SEO.

- Writing clean, semantic code for improved discoverability.

- Best practices for improving page load performance.

Unit 5:

Integrating HTML with CSS and JavaScript:

- Understanding the relationship between HTML, CSS, and JavaScript.

- Linking external CSS and JavaScript files to HTML documents.

- Creating dynamic and interactive web pages with HTML and JavaScript.

- Managing styles and layout using HTML and CSS frameworks Bootstrap.

- Introduction to modern front-end development practices with HTML.