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HTML and CSS

1. HTML Fundamentals

1.1 Construct markup that uses metadata elements

- script, noscript, style, link, meta tags (encoding, keywords, viewport, and description)

1.2 Construct well-formed page markup

- DOCTYPE declaration, html, head, body, proper syntax, closing tags and commonly used symbols

2. CSS Fundamentals

2.1 Analyze and implement inline styles, internal (embedded) style sheets, and external style sheets

- When to use inline styles, internal (embedded) style sheets, or external style sheets; precedence when using a combination of inline styles and style sheets

2.2 Construct and analyze rule sets

- Valid syntax for the CSS rule set, selectors (class, id, elements, and pseudo-class)

3. Document Structure using HTML

3.1 Construct and analyze markup to structure content and organize data

- Table tags (table, tr, th, td), h1-h6, p, br, hr, div, span, ul, ol, li

3.2 Construct and analyze markup that uses HTML5 semantic elements

- Semantic tags (header, nav, section, article, aside, footer, details, summary, figure, caption)

3.3 Construct and analyze markup that implements navigation

- target, anchor (a href), bookmark, relative vs. absolute links, navigating simple folder hierarchies, map, area

3.4 Construct and analyze markup that uses form elements

- Form attributes, action, method, submission methods, input types and restrictions, select, textarea, button, option, label

4. Multimedia Presentation using HTML

4.1 Construct and analyze markup that displays images

- img and picture elements and their attributes

4.2 Construct and analyze markup that plays video and audio

- video, audio, track, source, iframe

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5. Webpage Styling using CSS

5.1 Construct and analyze styles that position content

- Positioning (float, relative, absolute, static, and fixed) max-width, overflow, height, width, align, display, inline vs. block, visibility, box model, margins and padding

5.2 Construct and analyze styles that format text

- font-family, color, font-style, font-size, font-weight, font-variant, link colors, text formatting, text alignment, text decoration, indentation, line-height, word-wrap, and letter-spacing

5.3 Construct and analyze styles that format backgrounds and borders

- border-color, border-style, border-width, background properties, colors

5.4 Construct and analyze styles that create a simple responsive layout

- Units of measurement (percentages, pixels, em, vw, vh), viewport and media query, frameworks and templates, working with breakpoints, grids

6. Accessibility, Readability, and Testing

6.1 Construct well-formed HTML and CSS markup that conforms to industry best practices

- Reusing rules and rule sets, commenting, web-safe fonts, cross-platform usability, separation of structure (HTML) and style (CSS)

6.2 Apply accessibility principles and evaluate content accessibility

- Text alternatives, color contrast and usage, legibility of typography, tab order, text resizing, text hierarchy, translate

6.3 Evaluate the structural integrity of HTML and CSS markup

- Syntax errors, tag mismatch, cascading issues

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