

Working with HTML5

DIY - 6

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Problem Statement:

Task 1: In this task, you will embark on a journey into the world of HTML5, exploring its unique features, drawing comparisons with HTML4, harnessing the power of HTML5 tags, and implementing HTML5 APIs to create interactive and innovative web content. Your mission is to develop a compelling web-based project that demonstrates your mastery of these HTML5 elements.

Assignment Instructions:

- **Understanding HTML5:**

Highlight the impact of HTML5 on multimedia, semantics, and the overall user experience.

- **HTML4 vs. HTML5 Analysis:**

Conduct an in-depth analysis contrasting HTML4 with HTML5, emphasizing their distinctions and advancements.

- **HTML5 Tags Showcase:**

Create a dynamic web page that utilizes an array of HTML5 tags, including `<header>`, `<nav>`, `<article>`, `<section>`, and `<footer>`, to structure content.

- **HTML5 API Implementation:**

Select at least two HTML5 APIs (e.g., Geolocation, Web Storage, or Web Workers) and integrate them into your project.

- **Responsive Design and Styling:**

Apply CSS styling to enhance the visual appeal of your web page.

Task 2: In this task, you will dive into the depths of HTML5's Document Object Model (DOM) and explore the creative possibilities of Scalable Vector Graphics (SVG). Your mission is to create a web-based project that not only showcases

your understanding of HTML5 DOM manipulation but also leverages the power of SVG for dynamic and interactive visual content.

Assignment Instructions:

- **HTML5 DOM Manipulation:**

Create a web page that dynamically manipulates the DOM using JavaScript to add, remove, or modify elements.

- **HTML5 SVG Creation:**

Develop an SVG-based project that includes interactive graphics or animations.

- **Integration of HTML5 DOM and SVG:**

Implement DOM events that trigger SVG animations or manipulations.

- **Responsive Design:**

Apply CSS styling to ensure that your web project is visually appealing and responsive across different devices and screen sizes.