**HTML & CSS PROJECT REPORT**  
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**Introduction**

Web development is a fundamental skill in today’s digital age, and this project was designed to enhance our knowledge and practical application of **HTML** and **CSS**, which are essential technologies for building and styling web pages.

The objective of this project was to create a functional and visually appealing webpage while experimenting with various HTML elements and CSS properties. By dividing the tasks among team members, we ensured each person had a chance to focus on different aspects of web development, ranging from structure to design and functionality.

We incorporated a variety of commands and tags in HTML, such as <figure>, <table>, <input>, and <select>, to build the structure of the page. Additionally, we applied CSS to enhance the design using properties like **margin**, **background color**, **hover effects**, and **text color**. This project not only strengthened our technical skills but also provided us with valuable insights into teamwork and project management.

**HTML Implementation**

HTML served as the foundation of our project, allowing us to structure the content effectively. Below is a detailed overview of the HTML elements we utilized:

* **Figure:** The <figure> tag was used to include images along with captions. This allowed us to present visual content in a well-organized manner. For instance, we added a product image with a descriptive caption to demonstrate this feature.
* **Table:** The <table> element was implemented to organize and display tabular data. We included rows, columns, and headers to make the data easy to read and interpret.
* **Input Fields:** Various input types, such as text and password fields, were added to create interactive forms. This enabled users to input their details securely and conveniently.
* **Select:** The <select> element was used to provide dropdown options. This improved user interaction by allowing them to choose from predefined categories.
* **Image Links:** Images were linked using the <img> tag. By specifying the source path, we displayed relevant images that added context and enhanced the visual appeal of the webpage.

These HTML elements were essential in providing functionality and structure, ensuring the webpage was interactive and user-friendly.

**CSS Implementation**

CSS was integral to transforming our basic HTML structure into a visually appealing webpage. We applied various CSS properties, which are detailed below:

* **Margin and Padding:** These properties were used to adjust spacing between elements, ensuring the layout was clean and well-organized. Margins helped to create separation between sections, while padding added space inside the elements for better presentation.
* **Background Color:** To make the webpage visually engaging, we used background colors for different sections. For example, the header was styled with a light blue background, while the main content area used a neutral tone to ensure the text was easily readable.
* **Text Color:** We applied custom colors to the text to match the theme of the webpage. Important sections were highlighted with bold and vibrant colors to draw the user's attention.
* **Hover Effects:** Interactive hover effects were added to buttons and links using the :hover pseudo-class. For instance, when the user hovered over a navigation link, the color changed to indicate interactivity.
* **Font Styles:** We chose a clean and modern font family to ensure readability and consistency. Font sizes were adjusted for different headings and paragraphs to improve the visual hierarchy.

These CSS techniques significantly enhanced the overall user experience, making the webpage more engaging and professional.

**Team Contributions**

This project was a collaborative effort, with each team member focusing on specific areas:

1. **Ali Alrabie:**  
   Ali was responsible for incorporating images and captions using the <figure> tag. He also styled the tables to ensure that the data was presented in an organized and visually appealing manner. His work contributed to the structural integrity of the webpage.
2. **Ali Alkahmis:**  
   Ali focused on developing interactive forms using <input> and <select> elements. He ensured the forms were functional and visually integrated with the rest of the page. Additionally, he implemented hover effects on buttons and links to enhance interactivity.
3. **Abdullah Alhammad:**  
   Abdullah managed the overall layout design, focusing on spacing, alignment, and color schemes. He applied CSS properties such as margins, background colors, and font styles to create a cohesive and polished look. His work ensured the webpage was aesthetically pleasing and user-friendly.

**Challenges and Solutions**

During the course of the project, we faced several challenges:

1. **Aligning Elements Properly:**  
   Initially, some elements were misaligned, making the page look cluttered. We resolved this by using CSS properties like margin, padding, and flexbox.
2. **Responsive Design:**  
   Ensuring the webpage looked good on different screen sizes was a challenge. We used CSS media queries to make the design responsive and adaptable to various devices.
3. **Form Validation:**  
   Implementing secure and functional input forms required additional research. By using HTML attributes like required and type="password", we enhanced the form’s functionality and security.

**Conclusion**

This project was an excellent opportunity to deepen our understanding of web development. Through the use of **HTML** and **CSS**, we successfully created a functional and visually engaging webpage. Each team member contributed significantly, showcasing the power of collaboration and individual effort.

We learned not only the technical aspects of web design but also the importance of proper planning and coordination. The knowledge and skills gained from this project will undoubtedly benefit us in future endeavors in web development and other related fields.

**References**

https://www.w3schools.com/