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# **Project Exam 1**

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536 Words

## Introduction

This report outlines the process, successes, and challenges encountered during the creation of a modern blog site. The objective was to apply the skills acquired during the first year of

studies in front-end development. The blog site, designed using HTML, CSS, and JavaScript, integrates with a WordPress Headless CMS for content management.

## **Design**

The thematic choices were driven by an understanding of the target audience. The color palette was selected to invoke familiarity and readability, while the layout was structured to guide the user naturally through the content, enhancing overall engagement.

Responsive design was a cornerstone of the project. The site was crafted to ensure fluidity and adaptability across a wide range of devices. Media queries and flexible grid layouts played vital roles in this success.

## **Carousel Implementation**

The carousel, a dynamic element designed to showcase the latest posts, brought challenges in terms of JavaScript execution and CSS styling to ensure smooth transitions. Achieving this required iterative testing and tweaking of animation timings and control mechanisms.

Maintaining a uniform design language was taxing due to the dynamic nature of blog content. This was tackled by establishing a set of design tokens and CSS variables that provided a cohesive visual framework across the site.

## **Future Improvements**

While initial testing was conducted, the iterative approach to design could be better secured by more comprehensive user testing sessions, utilizing a diverse user group to gather broader insights.

Future projects could include more complex CSS grid layouts and JavaScript interactions to create an even more engaging user experience, potentially incorporating motion design principles to guide user focus.

## **Technical Aspects**

Fetching data from the WordPress REST API was streamlined and robust, thanks to asynchronous JavaScript.

Implementing client-side form validation using JavaScript ensured a smooth user experience. This was important for the contact page, where user input validation is crucial for effective communication.

## **Challenges**

The balance between a rich user experience and website performance was a tightrope walk, especially given the heavy reliance on high-quality images. Techniques such as lazy loading and image compression were applied to tackle these issues.



To facilitate future maintenance and updates, the codebase could benefit from further refactoring, and modular approaches, adhering to modern best practices and patterns.

While the site meets basic WCAG guidelines, there is room for improvement, particularly in ensuring that the site is fully navigable and perceivable by users a wider range of disabilities.

Search Engine Optimization was at the front of content strategy, with an emphasis on meta tags, descriptive alt attributes, and structured, semantic markup to enhance discoverability.

Managing content styles when interfacing with the WordPress backend was challenging due to the variable nature of content. This was tackled by creating a set of style guides and templates to ensure uniformity.

## **Conclusion**

Reflecting on this project, it is evident that the challenges faced were as valuable as the successes. The experiences gained have laid a foundation for a comprehensive approach to web development, emphasizing design, technical precision, and content accessibility. The knowledge acquired will be instrumental in shaping future projects, with a commitment to continuous learning and improvement.

## **References**

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