Construction of an Interior Design Business Website for Hoàng Gia Vĩnh Phúc Joint Stock Commercial Company

Hoàng Phi
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student426@ictu.edu.vn

***Abstract*—This thesis presents the construction of a business website for Hoàng Gia Vĩnh Phúc Joint Stock Commercial Company, focusing on the use of PHP, Laravel framework, and PostgreSQL database. The project successfully meets the requirements of the topic, including an easy-to-use interface and customer-friendly features. The website was developed using PHP and Laravel, with PostgreSQL serving as the database management system. The project was completed within the specified timeline and adhered to the design specifications. Future development plans include integrating online payment systems, linking with delivery services, and enhancing system optimization. The thesis provides a detailed analysis of the technologies used and their application in the project, highlighting the challenges and limitations faced during development.**

***Index Terms*—PHP, Laravel, PostgreSQL, website, interior design, business**

I. Introduction

The thesis introduces the construction of a business website for Hoàng Gia Vĩnh Phúc Joint Stock Commercial Company, utilizing PHP, Laravel, and PostgreSQL. The project aims to create a user-friendly and customer-friendly website that meets the company's business needs. The introduction covers the theoretical background of these technologies, including the history and development of PHP and Laravel, as well as the features and benefits of PostgreSQL. The project forms part of the Software Engineering curriculum at ICTU. The project's scope includes the design and implementation of a website that will serve as an online platform for the company's interior design services [1]. Official technical documentation listed by the original thesis provides implementation context [2], [3], [4]. Published books on the methods and subject of this project provide context for this English summary [5].

II. Methods

The methods section discusses the use of PHP, Laravel, and PostgreSQL in the construction of the website. The project began with a thorough analysis of the company's requirements and the identification of key use cases. The design process involved creating a detailed system architecture, which included the use of Laravel's MVC (Model-View-Controller) framework to manage the website's structure and functionality. The PostgreSQL database was used to store and manage the website's data, ensuring efficient and secure data handling. The project was developed using a modular approach, with each component being tested and integrated into the overall system. The development process was documented and reviewed by the project's supervisor, ensuring that the project adhered to the specified design and functionality requirements [1].

Supervisor: Nguyễn Hồng Tân, Thai Nguyen University of Information and Communication Technology (nhtan@ictu.edu.vn).

III. Results

The project successfully completed the requirements of the thesis, including a user-friendly interface and customer-friendly features. The website was developed within the specified timeline and adhered to the design specifications. The website features a clean and intuitive interface, making it easy for customers to navigate and find the information they need. The use of Laravel and PostgreSQL ensured that the website was robust and scalable, capable of handling a growing number of users and transactions. The project did not include any measured evaluation or performance metrics, as the focus was on meeting the design and functionality requirements. Future development plans include integrating online payment systems, linking with delivery services, and enhancing system optimization [1].

IV. Discussion

The discussion section outlines future development plans, such as integrating online payment systems, linking with delivery services, and enhancing system optimization. These plans are based on the current state of the project and potential improvements. The integration of online payment systems would allow customers to make purchases directly through the website, streamlining the transaction process. Linking with delivery services would provide customers with the ability to schedule deliveries, improving the overall customer experience. Enhancing system optimization would involve improving the website's performance and user experience, ensuring that it remains responsive and accessible. The limitations of the current project include the lack of a comprehensive performance evaluation and the absence of user feedback, which could provide valuable insights into the website's usability and effectiveness [1].

V. Conclusion

The thesis concludes that the project successfully met the requirements of the topic, providing a user-friendly and customer-friendly website. The website was developed using PHP, Laravel, and PostgreSQL, ensuring that it was robust and scalable. Future work will focus on integrating additional features and optimizing the system. The project faced several challenges, including the need to balance functionality with user experience and the limited resources available for performance testing. Despite these limitations, the project provided a solid foundation for the company's online presence and laid the groundwork for future enhancements [1].

References

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