Construction of an Online Sales Website for Eureka Ha Long Company

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***Abstract*—This thesis focuses on the development of an online sales website for Eureka Ha Long Company, utilizing PHP, MySQL, Joomla, and VirtueMart. The author provides an in-depth overview of PHP and MySQL, detailing their functionalities and advantages. The project aims to create a comprehensive and user-friendly online store, with a particular emphasis on the Joomla and VirtueMart platforms. The author successfully developed a complete online sales system following software development processes, contributing valuable experience to their future endeavors in web application development. The thesis also highlights the importance of Joomla as a powerful open-source platform and the need for continuous learning and community involvement to support its growth in Vietnam.**

***Index Terms*—PHP, MySQL, Joomla, VirtueMart, Web Development, Online Sales**

I. Introduction

The thesis introduces the development of an online sales website for Eureka Ha Long Company, emphasizing the importance of web technologies in modern business. The author explains the choice of PHP and MySQL for backend development, and Joomla and VirtueMart for frontend and e-commerce functionalities. The project aims to create a user-friendly and feature-rich online store, providing a comprehensive understanding of web development processes. The author highlights the significance of web technologies in business, particularly in the context of Eureka Ha Long Company, which operates in the computer hardware market. The project's goal is to provide a platform that can effectively showcase and sell products, enhancing the company's online presence. [1]

II. Methods

The methods section covers the analysis and design of the system, including user case diagrams, sequence diagrams, site maps, database design, and interface design. The author also details the coding process, including system information, sales functions, customer support, and system packaging and deployment. The project utilized PHP for server-side scripting, MySQL for database management, Joomla for the content management system, and VirtueMart for e-commerce functionalities. The author followed a structured approach, starting with a thorough analysis of the company's needs and market requirements, then designing the system architecture and implementing the necessary functionalities. The project involved creating a user-friendly interface, integrating payment gateways, and ensuring the system was scalable and secure. [1]

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III. Results

The results show that the author successfully developed a complete online sales system following software development processes. The project provided a comprehensive understanding of Joomla, VirtueMart, and web development, contributing valuable experience to the author's future endeavors in web application development. The online store was successfully deployed and tested, with all functionalities working as intended. The author implemented a range of features, including product listings, shopping cart, payment processing, and customer support. The system was designed to be user-friendly, with a clean and intuitive interface, and was tested for usability and performance. The project demonstrated the author's ability to apply theoretical knowledge to practical development tasks, resulting in a functional and effective online sales platform. [1]

IV. Discussion

The discussion highlights the importance of Joomla as a powerful open-source web application platform, enabling the creation of various websites. The author emphasizes the need for continuous learning and community involvement to support the growth of Joomla in Vietnam. The project demonstrates the author's ability to apply theoretical knowledge to practical development tasks, resulting in a functional and effective online sales platform. The author acknowledges the limitations of the project, such as the need for further optimization and integration with other systems. The project also highlights the importance of user experience in web development, with the author emphasizing the need for a clean and intuitive interface to enhance customer satisfaction. The author expresses gratitude to the instructor and school for their support and acknowledges the need for further development in web application design and development. [1]

V. Conclusion

The conclusion reiterates the successful development of an online sales system and the valuable experience gained. The author expresses gratitude to the instructor and school for their support and acknowledges the need for further development in web application design and development. The project successfully created a user-friendly and feature-rich online store, providing Eureka Ha Long Company with a platform to showcase

and sell its products. The author emphasizes the importance of continuous learning and community involvement in the development of web technologies, particularly in the context of open-source platforms like Joomla and VirtueMart. [1]

References

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