Construction of an Online Sales System for Computers of the IEC Center

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***Abstract*—This thesis focuses on the development of an online sales system for computers using the Joomla platform. The author explores the concept of e-commerce and the use of open-source software, particularly Joomla, to create a website for a business. The system allows customers to interact with the website through various functionalities such as registration, login, product viewing, adding items to a cart, and online purchasing. The author also discusses the limitations and future directions for improvement, including the need for better understanding of Joomla and the limited use of electronic payment methods in Vietnam. The system was successfully implemented, but the author notes that the project was limited by time and experience, leading to some shortcomings in the application and management aspects of the website.**

***Index Terms*—e-commerce, Joomla, website, online sales, UML, system design**

I. Introduction

The thesis introduces the importance of e-commerce in the modern economy and the role of open-source software like Joomla in website development. The author aims to develop a website for the IEC Center that enables online sales of computers, focusing on user interaction and system management. The author acknowledges the limitations of time and experience, which impacted the project's completeness. The study covers the analysis and design of the system, including requirements, online purchase steps, and system management. The implementation involves setting up Joomla and configuring its extensions [1].

II. Methods

The methods section covers the analysis and design of the system, including requirements, online purchase steps, and system management. The author uses UML diagrams to design the system, detailing actors and use cases. The author also discusses the limitations of time and experience, which impacted the project's completeness. The system was designed to allow customers to interact with the website through various functionalities such as registration, login, product viewing, adding items to a cart, and online purchasing. The author used UML diagrams to design the system, detailing actors and use cases. The implementation involved setting up Joomla and configuring its extensions [1].

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III. Results

The thesis reports the successful development of a website that allows customers to interact with the system through various functionalities. The system includes registration, login, product viewing, adding items to a cart, and online purchasing. However, the author notes that the project was limited by time and experience, leading to some shortcomings in the application and management aspects of the website. The system was successfully implemented, but the author notes that the project was limited by time and experience, leading to some shortcomings in the application and management aspects of the website [1].

IV. Discussion

The discussion highlights the benefits of e-commerce and Joomla, as well as the challenges faced, such as the limited use of electronic payment methods in Vietnam. The author suggests future improvements, including a more in-depth analysis of business operations and the development of a standardized online sales model. The author notes that the project was limited by time and experience, leading to some shortcomings in the application and management aspects of the website [1].

V. Conclusion

The author expresses gratitude and identifies areas for future research, emphasizing the need for better understanding of Joomla and the development of a secure and user-friendly website. The author identifies areas for future research, emphasizing the need for better understanding of Joomla and the development of a secure and user-friendly website [1].

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