Development of Sales Management Software for Minh Anh Warehouse

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***Abstract*—This thesis presents the development and management of a sales management software for Minh Anh Warehouse. The project includes system analysis, design, and implementation. The software provides basic functionalities such as login, product management, and user account management. However, it lacks advanced features like password recovery and real-time notifications. The system's performance is adequate for current needs but may face challenges with increased user load in the future. The author plans to enhance the system by adding advanced features, improving the user interface, and optimizing performance for scalability. The project successfully developed a basic sales management software for Minh Anh Warehouse, but it requires further development to address scalability and security issues.**

***Index Terms*—sales management, software development, CodeIgniter, PHP, user interface**

I. Introduction

The thesis focuses on the construction and management of a sales management software for Minh Anh Warehouse. The project was carried out over several weeks, with the author gaining experience in PHP, CodeIgniter, and web development. The software aims to streamline the sales process and provide a user-friendly interface for warehouse management. The project involved gathering and analyzing requirements, designing the system architecture, and implementing the software. The author used PHP and CodeIgniter for the backend, and HTML, CSS, and JavaScript for the frontend. The system was tested for functionality and usability [1]. Related earlier ICTU undergraduate theses provide context for this English summary [5], [6]. Published articles on the methods and subject of this project provide context for this English summary [7]. Published books on the methods and subject of this project provide context for this English summary [8], [9], [10].

II. Methods

The methods involved in the project included gathering and analyzing requirements, designing the system architecture, and implementing the software. The author used PHP and CodeIgniter for the backend, and HTML, CSS, and JavaScript for the frontend. The system was tested for functionality and usability. The author also created a detailed design document, including class diagrams and user case diagrams, to ensure a clear understanding of the system's structure and functionality. The testing process involved both manual testing and user acceptance testing to ensure the system met the requirements and was user-friendly [1].

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III. Results

The software was developed with basic functionalities such as login, product management, and user account management. However, it lacks advanced features like password recovery and real-time notifications. The system's performance is adequate for current needs but may face challenges with increased user load in the future. The author conducted a preliminary evaluation of the system, which showed that the software was functional and user-friendly. However, the system's performance was not extensively tested, and no specific metrics were provided to measure its efficiency or scalability [1].

IV. Discussion

The software's performance and user interface are satisfactory, but there are areas for improvement. The author plans to enhance the system by adding advanced features, improving the user interface, and optimizing performance for scalability. The current system provides basic functionalities and a user-friendly interface, but it lacks advanced features that could improve the user experience and system efficiency. The author identified several limitations, including the need for better security measures, improved user interface design, and enhanced performance optimization. These improvements are necessary to ensure the system can handle increased user load and provide a more robust solution for Minh Anh Warehouse [1]. Earlier ICTU undergraduate work by Đỗ Thị Thu addressed sales management software [4].

V. Conclusion

The project successfully developed a basic sales management software for Minh Anh Warehouse. While the system meets current needs, it requires further development to address scalability and security issues. The author plans to continue working on the project to add advanced features, improve the user interface, and optimize performance. The project provided valuable experience in software development and web technologies, and the author is committed to improving the system to better serve the needs of Minh Anh Warehouse [1].

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