Construction of an E-commerce Website for Laptop Sales for Hoang Anh-Bac Giang Store

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***Abstract*—This thesis presents the construction of an e-commerce website for laptop sales for the Hoang Anh-Bac Giang store. The author designed the website using PHP, MySQL, HTML, CSS, and JavaScript, and implemented a database management system. The website includes features for product management, user interface design, and order management. The author also developed a backend management system to facilitate store operations. The project was successfully built and tested, but no specific performance metrics are provided. The source conclusion specifically documents a product display for customers and a store management page used to monitor products and orders.**

***Index Terms*—PHP, MySQL, HTML, CSS, JavaScript, Website**

I. Introduction

The thesis provides an overview of web design technologies, including HTML, CSS, PHP, and the Model-View-Controller (MVC) pattern. It also discusses the use of libraries such as JavaScript, Ajax, Bootstrap, and jQuery, as well as the MySQL database system. The author, a student from the K15B class in Software Engineering, aimed to develop a website that would support the operations of the Hoang Anh-Bac Giang store, focusing on laptop sales [1]. Related earlier ICTU undergraduate theses provide context for this English summary [5], [6], [7], [8], [9], [10], [11].

II. Methods

The author designed the website using PHP and MySQL, and implemented a database management system. The website includes features for product management, user interface design, and order management. The author also developed a backend management system to facilitate store operations. The design process involved creating a database schema, implementing the front-end using HTML, CSS, and JavaScript, and integrating the back-end with PHP and MySQL. The author used UML diagrams and use case diagrams to model the system's functionalities [1].

III. Results

The thesis describes the design and implementation of a website for laptop sales, including database management and backend management features. The author mentions that the website was successfully built and tested, but no specific performance metrics are provided. The website includes features for managing products, designing the user interface, and managing orders. The backend management system was developed to assist store operations, but no detailed evaluation of its effectiveness is reported [1].

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IV. Discussion

The author discusses the limitations of the project, including the need for further optimization of system performance and the lack of online payment functionality. The author also mentions the need for additional features to enhance sales and improve the website's appearance. The project successfully developed a website for laptop sales, which includes database management and backend management features, but the author notes the need for further development to improve the website's functionality and appearance [1].

V. Conclusion

The author concludes that the project successfully developed a website for laptop sales, which includes database management and backend management features. The author also notes the need for further development to improve the website's functionality and appearance. The project provided the student with valuable experience in web development using PHP and MySQL, and introduced them to UML and use case diagrams [1].

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