Analysis and Design of an E-Commerce Website - Introduction and Sale of Mobile Phone Products for Phuong Nga Company

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***Abstract*—This thesis focuses on the analysis and design of an e-commerce website for Phuong Nga Company, specifically for the introduction and sale of mobile phone products. The research covers the understanding of e-commerce, the importance of websites, and the use of PHP and MySQL for web development. The author aims to build a dynamic website that can efficiently manage and update information, providing a user-friendly interface and open-source code for future development. The project, while successful in meeting the basic requirements, faces limitations due to the author's skill level and time constraints.**

***Index Terms*—e-commerce, PHP, MySQL, website, web development, dynamic website**

I. Introduction

The thesis introduces the concept of e-commerce and its significance in the modern economy. It highlights the importance of websites in facilitating direct communication between customers and suppliers. The author aims to develop a website using PHP and MySQL to meet the needs of Phuong Nga Company, focusing on the dynamic transmission of information and user-friendly design. The research covers the understanding of e-commerce, the importance of websites, and the use of PHP and MySQL for web development. The project aims to provide a platform for the introduction and sale of mobile phone products, enhancing the company's online presence and customer engagement [1]. Related earlier ICTU undergraduate theses provide context for this English summary [4], [5], [6]. Published books on the methods and subject of this project provide context for this English summary [7], [8], [9], [10].

II. Methods

The methods section describes the analysis and design of the e-commerce system, including the identification of system actors, use case diagrams, and class designs. The author uses PHP and MySQL to build a dynamic website that can update and manage information efficiently. The project involves the creation of a website that can handle the introduction and sale of mobile phone products, ensuring a user-friendly interface and open-source code for future development. The author acknowledges the limitations of the project due to skill level and time constraints, which may affect the implementation of advanced features [1].

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III. Results

The results include the successful development of a website that meets the requirements for information transmission and management. The website is designed to be user-friendly and has open-source code for future development. The project successfully implements the basic functionalities required for the introduction and sale of mobile phone products. However, the thesis acknowledges that the project has limitations due to the author's skill level and time constraints, which may affect the implementation of advanced features [1].

IV. Discussion

The discussion section outlines the challenges faced during the development process, such as the need for advanced security measures and additional features. The author suggests future improvements, including the addition of a computer building function, support for online payments, and enhanced security measures. The project's limitations, such as the author's skill level and time constraints, may hinder the implementation of these advanced features. The author emphasizes the importance of continuous learning and improvement in web development to address these challenges [1].

V. Conclusion

The conclusion summarizes the achievements, such as the acquisition of knowledge in e-commerce and web development, and the successful development of a dynamic website. The author also identifies areas for future development, including the addition of new features and improvements in security. The project successfully meets the basic requirements for the introduction and sale of mobile phone products, enhancing the company's online presence. However, the limitations of the project, such as the author's skill level and time constraints, may affect the full implementation of advanced features [1].

References

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