Construction of a Mobile Phone E-commerce Website Using PHP and Laravel Framework

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***Abstract*—This thesis focuses on the construction of an e-commerce website for a mobile phone store using PHP and the Laravel framework. The project aims to provide a user-friendly platform for a store named Xperiashop, covering key functionalities such as product listings, detailed product pages, and an admin interface. The work includes a comprehensive overview of PHP and Laravel, detailing their features and benefits, and demonstrates the practical application of these technologies in building a functional e-commerce site. The thesis provides a detailed explanation of the development process, including the use of Laravel's features such as Eloquent ORM, routing, and controllers. The project successfully constructs a website with essential functionalities, but no measured evaluation or deployment success is reported.**

***Index Terms*—PHP, Laravel, e-commerce, mobile phone, website**

I. Introduction

The thesis introduces the construction of an e-commerce website for a mobile phone store, named Xperiashop, using PHP and the Laravel framework. It highlights the importance of e-commerce in today's digital age, emphasizing the benefits of using open-source technologies like PHP and Laravel for cost-effectiveness and ease of use. The project aims to provide a user-friendly platform for the store, covering essential functionalities such as product listings, detailed product pages, and an admin interface. The author, Đỗ Mạnh Cường, from the KTPM K15A class, seeks to build a simple system that meets the requirements of the store and uses Laravel for its robust features and ease of development [1]. Related earlier ICTU undergraduate theses provide context for this English summary [2], [3], [5], [6]. Published books on the methods and subject of this project provide context for this English summary [4]. Published articles on the methods and subject of this project provide context for this English summary [7], [8], [9], [10].

II. Methods

The methods section provides a detailed overview of PHP and Laravel, including their history, features, and practical applications. The project involves creating a website for Xperiashop, which includes functionalities such as product listings, detailed product pages, and an admin interface. The use of Laravel framework is emphasized for its robust features and ease of development. The author explains the development process, including the use of Laravel's features such as Eloquent ORM, routing, and controllers. The project does not include any measured evaluation or deployment success reports [1].

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III. Results

The results show the successful construction of a functional e-commerce website for Xperiashop using PHP and Laravel. The website includes key functionalities such as product listings, detailed product pages, and an admin interface. The project demonstrates the practical application of PHP and Laravel in building a user-friendly e-commerce platform. However, no specific evaluation metrics or user feedback are provided to measure the effectiveness of the website [1].

IV. Discussion

The discussion section evaluates the effectiveness of using PHP and Laravel in the construction of the e-commerce website. It highlights the benefits of using these technologies, such as their robust features, ease of development, and cost-effectiveness. The project successfully meets the requirements of the store, providing a user-friendly platform for customers and an efficient management tool for the store administrators. The author expresses a desire to further explore the capabilities of Laravel and improve the website's functionalities in the future. However, no specific test results or user evaluations are provided to support these claims [1].

V. Conclusion

The conclusion summarizes the successful construction of the e-commerce website for Xperiashop using PHP and Laravel. The project demonstrates the practical application of these technologies in building a user-friendly and efficient e-commerce platform. The author expresses a desire to further explore the capabilities of Laravel and improve the website's functionalities in the future. The thesis provides a detailed explanation of the development process, but no measured evaluation or deployment success is reported [1].

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