Construction of a Hotel Booking Website for Việt Minh Resort

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***Abstract*—This thesis presents the construction of a hotel booking website for Việt Minh Resort in Thái Nguyên. Nguyễn Khắc Việt, a student from the Kỹ Thuật Phần Mềm K15A class, designed and developed the website using PHP and MySQL, incorporating HTML, CSS, and JavaScript. The project resulted in a user-friendly interface with basic functionalities, but acknowledged limitations in processing speed and system operation errors. The author plans to continue developing the website to enhance its features and optimize performance for practical application. The website was developed based on a review of relevant online resources, including W3Schools and Google. The project faced challenges in optimizing the processing speed and ensuring error-free operation, which are areas for future improvement.**

***Index Terms*—hotel booking, website construction, PHP, MySQL, web service, database management**

I. Introduction

The thesis provides an overview of web application development, including web design tools, web services, database management, and system analysis. It focuses on the construction of a hotel booking website for Việt Minh Resort, detailing the analysis and design process. The author, Nguyễn Khắc Việt, is a student from the Kỹ Thuật Phần Mềm K15A class. The project aims to provide a user-friendly interface for booking hotel rooms, with basic functionalities such as room selection and reservation. The development process involved analyzing the current state of the hotel, defining requirements, and designing the system architecture. The author also conducted a review of relevant online resources, including W3Schools and Google, to support the development process [1]. Related earlier ICTU undergraduate theses provide context for this English summary [2], [3], [5]. Published articles on the methods and subject of this project provide context for this English summary [4], [6]. Published books on the methods and subject of this project provide context for this English summary [7], [8], [9], [10].

II. Methods

The author used PHP and MySQL for the backend, and HTML, CSS, and JavaScript for the frontend. The project involved analyzing the current state of the hotel, defining requirements, and designing the system architecture. The author also conducted a review of relevant online resources, including W3Schools and Google, to support the development process. The backend was developed using PHP and MySQL, which were chosen for their robustness and flexibility. The frontend was developed using HTML, CSS, and JavaScript, which were selected for their ease of use and cross-browser compatibility. The author followed a structured approach to ensure that the website met the requirements and provided a user-friendly interface for booking hotel rooms [1].

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III. Results

The website was successfully developed with a user-friendly interface and basic functionalities. However, the processing speed was not optimized, and some operational errors were identified. The website allowed users to select and book hotel rooms, but the backend processing speed was slow, and some errors occurred during system operation. The author acknowledged the limitations of the project, such as the need for improved processing speed and error-free system operation. Future work will focus on enhancing the website's features and optimizing its performance for practical application [1].

IV. Discussion

The author acknowledges the limitations of the project, such as the need for improved processing speed and error-free system operation. The project faced challenges in optimizing the processing speed and ensuring error-free operation, which are areas for future improvement. The author plans to continue developing the website to enhance its features and optimize performance for practical application. The limitations identified in the project highlight the importance of thorough testing and optimization in web development. The author's experience with this project will provide valuable insights for future web development projects [1].

V. Conclusion

The author successfully completed the construction of a hotel booking website for Việt Minh Resort. The project provided valuable experience in web development using PHP and MySQL, and the author plans to continue improving the website for practical application. The website allowed users to select and book hotel rooms, but the backend processing speed was slow, and some errors occurred during system operation. The author acknowledged the limitations of the project and plans to continue developing the website to enhance its features and optimize performance for practical application [1].

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