Developing and Deploying a Grade Management System for Hoa Binh University, Hanoi

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***Abstract*—This thesis explores the development and implementation of a grade management system for Hoa Binh University, Hanoi. The author provides an in-depth analysis of PHP and its application in web development, focusing on the creation of a web-based system for managing student grades. The system allows for the registration, login, and management of student grades, as well as the updating of user information. The project highlights the challenges faced and the outcomes achieved, including a better understanding of PHP and UML-based object-oriented design. The system was developed using PHP and MySQL, with a user-friendly interface designed to facilitate the management of student grades and user information. However, the content and information on the website are limited, and the author acknowledges the need for further development.**

***Index Terms*—PHP, grade management, web development, UML, Hoa Binh University**

I. Introduction

The thesis introduces PHP and its syntax, including basic syntax, tags, data types, variables, constants, expressions, operators, control statements, functions, and session handling. The project aims to develop a web-based grade management system for Hoa Binh University, enabling administrators to manage student grades and user information. The author delves into the intricacies of PHP, covering topics such as basic syntax, tags, data types, and control statements. The system is designed to allow users to search for grade information, with administrative functions for adding, updating, and deleting user data. The project also emphasizes the importance of UML-based object-oriented design in the development process [1]. Published books on the methods and subject of this project provide context for this English summary [2], [3], [4], [5], [6], [7].

II. Methods

The methods section details the analysis and design of the system, including the identification of actors, use cases, and specific use case descriptions. The system is designed to allow users to search for grade information, with administrative functions for adding, updating, and deleting user data. The author uses UML diagrams to represent the system's architecture and the interactions between different components. The project also includes a detailed description of the database schema, which is designed to store and manage student grades and user information. The system is developed using PHP and MySQL, with a user-friendly interface designed to facilitate the management of student grades and user information [1].

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III. Results

The results show the development of a web-based grade management system for Hoa Binh University. The system includes features such as member registration, login, grade management, and user information updates. The author acknowledges that the content and information on the website are limited, and the system has not been fully evaluated for its effectiveness. The system has been deployed, but the author notes that it requires further development to meet the university's needs. The system has been tested with a small number of users, and feedback has been collected to improve the user experience and functionality [1].

IV. Discussion

The discussion highlights the challenges faced during the project, such as the limited scope and resources. The author suggests that with more time and knowledge, better applications could be developed and implemented in the future. The author also notes that the system has not been fully evaluated for its effectiveness, and further testing is needed to ensure its reliability and usability. The author emphasizes the importance of continuous improvement and the need for ongoing development to meet the university's needs. The author also suggests that the system could be extended to include additional features, such as automated grade calculations and notifications for students and parents [1].

V. Conclusion

The conclusion reiterates the achievements, including a deeper understanding of PHP and UML-based object-oriented design, and the successful implementation of a grade management system. The author also identifies areas for improvement and future development. The author acknowledges the limitations of the current system and the need for further development to meet the university's needs. The author also suggests that the system could be extended to include additional features, such as automated grade calculations and notifications for students and parents. The author hopes that the system will be further developed and implemented in the future to meet the university's needs [1].

References

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