Construction of an Electronic Lecture Management and Sharing System for the Department of Information Technology - Thai Nguyen University

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***Abstract*—This thesis focuses on the development of an electronic lecture management and sharing system for the Department of Information Technology at Thai Nguyen University. The system aims to support online learning and facilitate the sharing of lecture materials among students. The research covers the analysis and design of the system, including the use of UML, SQL Server 2005, and ASP.NET. The initial implementation includes basic functionalities such as viewing lecture materials and implementing an ATM-like payment system for accessing resources. However, further improvements are needed to enhance the system's capabilities, such as managing various types of lectures and improving the payment process. The system has successfully implemented basic functionalities, but it requires additional development to meet the needs of the department and students effectively.**

***Index Terms*—electronic lecture management, UML, SQL Server 2005, ASP.NET, ATM payment system**

I. Introduction

The thesis aims to develop an electronic lecture management and sharing system for the Department of Information Technology at Thai Nguyen University. The goal is to support online learning and facilitate the sharing of lecture materials among students. The system will use UML, SQL Server 2005, and ASP.NET for its implementation. The research covers the analysis and design of the system, including the use of UML, SQL Server 2005, and ASP.NET. The introduction highlights the importance of a rich learning environment and the university's commitment to eLearning. The system is intended to address the need for better management and sharing of lecture materials, which is crucial for enhancing the quality of education [1].

II. Methods

The methods used in the thesis include the analysis and design of the system using UML, SQL Server 2005 for database management, and ASP.NET for web development. The system's initial implementation includes basic functionalities such as viewing lecture materials and implementing an ATM-like payment system for accessing resources. The research also covers the use of DotNetNuke for developing modules and managing content. The thesis discusses the use of GreenStone and Moodle as references for managing digital resources and eLearning. The implementation process involved creating a database schema, designing the user interface, and integrating payment functionalities [1].

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III. Results

The initial implementation of the system includes basic functionalities such as viewing lecture materials and implementing an ATM-like payment system for accessing resources. The system has successfully managed to display lecture materials and facilitate payment transactions. However, the system needs further development to manage various types of lectures and improve the payment process. The research has shown that the system can be extended to include more advanced features, but additional work is required to ensure its practical application in the department [1].

IV. Discussion

The initial implementation of the system has demonstrated basic functionalities such as viewing lecture materials and implementing an ATM-like payment system for accessing resources. These functionalities have been successfully integrated into the system, but they need to be enhanced to meet the diverse needs of the department and students. The system's current capabilities are limited, and further development is necessary to improve its management and sharing of lecture materials. The discussion highlights the need for a more comprehensive system that can handle different types of lectures and provide a seamless payment experience [1].

V. Conclusion

The thesis has successfully implemented basic functionalities such as viewing lecture materials and implementing an ATM-like payment system for accessing resources. However, further development is needed to enhance the system's capabilities, such as managing various types of lectures and improving the payment process. The research has shown that the system can be extended to include more advanced features, but additional work is required to ensure its practical application in the department. The conclusion emphasizes the importance of continuous improvement to meet the evolving needs of the university and its students [1].

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