Construction of an Online Auction Website for 3CTelecom

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***Abstract*—This thesis focuses on the development of an online auction website for 3CTelecom, aiming to understand the current state of online auctions and develop essential skills in object-oriented system analysis and design. The research covers the current status of the system, the design and implementation of the website, and the user cases for various functionalities. The study highlights the development of object-oriented programming skills and the creation of a detailed system analysis and design document. However, the practical application of the system has not reached its full potential. The website implemented basic functionalities such as user registration, login, product search, and bidding, but faced issues with the user interface and incomplete analysis and design. The research also identified the need for further development to enhance the system's performance and functionality.**

***Index Terms*—online auction, system analysis, object-oriented design, user case, programming, website**

I. Introduction

The thesis addresses the necessity of developing an online auction platform in the digital age. It outlines the research objectives, target audience, and tasks. The study aims to understand the current state of online auctions, develop basic skills in object-oriented system analysis and design, and enhance programming skills using object-oriented programming languages. The research focuses on the development of a website for 3CTelecom, a telecommunications company, to facilitate online auctions. The project aims to provide a platform for users to register, log in, search for products, and participate in auctions. The study also aims to develop a detailed system analysis and design document to guide the development process [1]. Related earlier ICTU undergraduate theses provide context for this English summary [8]. Published books on the methods and subject of this project provide context for this English summary [9], [10].

II. Methods

The methods section details the analysis and design of the system using UML, the development of a detailed system analysis and design document, and the implementation of various user cases. The research involved the use of .NET technologies and online resources for development. The study utilized UML diagrams to model the system architecture and user interactions. The research also involved the creation of a system analysis and design document, which included user cases for various functionalities such as user registration, login, product search, and bidding. The implementation of these user cases was carried out using .NET technologies, including C# and ASP.NET. The research also relied on online resources and references to ensure the accuracy and completeness of the development process [1].

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III. Results

The research resulted in a basic functioning website for 3CTelecom's online auction platform. The website implemented basic functionalities such as user registration, login, product search, and bidding. However, the analysis and design were not fully detailed, and the user interface had some issues. The practical application of the system did not reach its full potential. The user registration and login functionalities were implemented successfully, allowing users to create and manage their accounts. The product search functionality enabled users to find products based on various criteria. The bidding functionality allowed users to participate in auctions and place bids. However, the user interface was not optimally designed, and some functionalities were not fully implemented. The research also identified several shortcomings, including inadequate analysis and design, a user-centric focus, and an interface that was not optimally designed [1].

IV. Discussion

The study identified several shortcomings, including inadequate analysis and design, a user-centric focus, and an interface that was not optimally designed. The research also highlighted the need for further development to address these issues and improve the system's performance. The analysis and design were not fully detailed, which limited the system's functionality and performance. The user interface was not optimally designed, leading to a less user-friendly experience. The research also emphasized the need for a more comprehensive approach to system analysis and design, which would involve a deeper understanding of the user's needs and preferences. The study also highlighted the importance of a well-designed user interface to enhance the overall user experience. The research provided a foundational understanding of online auctions and developed essential skills in object-oriented system analysis and design. However, the practical application of

the system was limited, and there is potential for further development to enhance its functionality and performance [1].

V. Conclusion

The research provided a foundational understanding of online auctions and developed essential skills in object-oriented system analysis and design. However, the practical application of the system was limited, and there is potential for further development to enhance its functionality and performance. The study identified several shortcomings, including inadequate analysis and design, a user-centric focus, and an interface that was not optimally designed. The research also highlighted the need for further development to address these issues and improve the system's performance. The website implemented basic functionalities such as user registration, login, product search, and bidding, but faced issues with the user interface and incomplete analysis and design. The research provided a valuable foundation for future work in the development of online auction platforms [1].

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