Construction of an Online Phone and Accessories Sales Website for F5 Mobile Store

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***Abstract*—This thesis presents the construction of a website for selling phones and accessories for the F5 Mobile store. Nguyen Nhu Nguyen, a Vietnamese undergraduate, completed the project as part of their 2021 undergraduate thesis. The work covers the use of ASP.NET MVC5, SQL Server, and Angular JS frameworks. The author gained practical experience in software development and database management, and designed the system to meet the basic requirements of an online sales website. The project involved analyzing the requirements of the F5 Mobile store and designing the system using UML diagrams. The website was developed using ASP.NET MVC5, Angular JS, and SQL Server, with Entity Framework for database management. The author acknowledged limitations due to time constraints and limited experience, noting that the website may not fully meet the expectations of the F5 Mobile store.**

***Index Terms*—ASP.NET MVC5, Angular JS, SQL Server, Entity Framework, UML, Online Sales**

I. Introduction

The thesis introduces the ASP.NET MVC5 framework and the Angular JS framework, explaining their components and benefits. It also covers SQL Server database management and LINQ to SQL for data querying. The author, Nguyen Nhu Nguyen, aimed to develop a website that could meet the basic requirements of an online sales platform for F5 Mobile. The project involved a detailed analysis of the store's requirements and the design of the system using UML diagrams. The author used ASP.NET MVC5, Angular JS, and SQL Server, with Entity Framework for database management. The project provided the author with practical experience in software development and database management [1]. Related earlier ICTU undergraduate theses provide context for this English summary [3], [4], [5]. Published books on the methods and subject of this project provide context for this English summary [6], [7], [8], [9].

II. Methods

The author analyzed the requirements of the F5 Mobile store and designed the system using UML diagrams. The website was developed using ASP.NET MVC5, Angular JS, and SQL Server, with Entity Framework for database management. The author used UML to create use case diagrams and class diagrams to model the system. The use case diagrams described the interactions between the system and the users, while the class diagrams represented the system's architecture. The author implemented the system using ASP.NET MVC5 for the backend, Angular JS for the frontend, and SQL Server for the database. Entity Framework was used to manage the database operations [1].

Supervisor: Nguyễn Thị Dung, Thai Nguyen University of Information and Communication Technology.

III. Results

The author successfully developed a website that could handle basic functionalities of an online sales platform. The project helped the author gain practical experience in software development and database management. The website included features such as product listings, user registration, and login. However, the author acknowledged that the website may not fully meet the expectations due to time and knowledge constraints. The project did not include any measured evaluation or deployment of the system in a real-world setting [1].

IV. Discussion

The author discussed the limitations of the project, noting that the website may not fully meet the expectations due to time and knowledge constraints. Future improvements were suggested, including optimizing functions and adding more advanced features. The author also mentioned that the project provided valuable experience in software development and database management. The author suggested that future work would focus on enhancing the website's functionality and integrating the latest technologies [1].

V. Conclusion

The author concluded that the project provided valuable experience in software development and database management. The author acknowledged that the website may not fully meet the expectations due to time and knowledge constraints. The author suggested that future work would focus on enhancing the website's functionality and integrating the latest technologies. The project provided the author with practical experience in software development and database management, but the limitations of the project were acknowledged [1].

References

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