A Pet Store Sales Application for Pet Thai Nguyen

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***Abstract*—This thesis designs a sales application for Pet Thai Nguyen. The author surveys local pet-store workflows, reviews Windows Forms, SQL Server, and UML, then prepares a system design and interface for managing merchandise and user accounts. The report says basic product operations, including adding, editing, and deleting records, were implemented. It also states that the application is only partly complete: sales and purchasing management need further work, and search has not been developed deeply. The source does not show a production deployment or measured business improvement. Its contribution is a documented prototype of core record-management features, with a clear account of unfinished functions. Further work should complete the sales workflow, test the interface with shop staff, and verify data handling before the program is used in a real store.**

***Index Terms*—pet store, sales application, Windows Forms, SQL Server, product management**

I. Introduction

A pet shop needs to organize product, account, and sales information. This thesis considers Pet Thai Nguyen as a case for a management application. It reviews supporting technologies and surveys local business practice before defining the proposed system. The goal is to make common store records easier to manage through software. The source does not provide measured evidence about the shop existing transaction speed or error rate [1]. Earlier ICTU student work on related designs is included here for context [2], [3], [4], [5], [6], [7], [8], [9], [10]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The author reviews Windows Forms, SQL Server, and UML, surveys pet-store operations, and develops requirements and design diagrams. The implementation chapter presents application screens and basic product and account management. The conclusion identifies adding, editing, and deleting merchandise as achieved functions. There is no reported controlled user trial, transaction benchmark, or independently verified production deployment. The method is analysis, design, and student prototype implementation [1].

III. Results

The report documents a prototype with product record operations and user or member account handling. Its conclusion says the application has covered only part of the purchase-and-sale management problem. Search remains basic, and other intended functions were not completed during the project period. Screens and design material substantiate the limited implemented features, but the source does not measure sales improvement, customer outcomes, or shop adoption [1].

IV. Discussion

Product CRUD and account handling are useful foundations, yet a complete retail tool would also need reliable transaction, stock, search, and reporting workflows. The author explicitly states that the application is only halfway toward the broader goal and that some ideas were deferred because of time. Thus the existing screens should be interpreted as prototype evidence. A future evaluation should check data consistency and usability with actual Pet Thai Nguyen staff [1].

V. Conclusion

The thesis documents a partly completed pet-store sales application. The source supports basic product and account functions and records the author own description of unfinished search and business operations. It does not establish real-world deployment or measurable benefits. Completion of the end-to-end sales workflow and testing against shop requirements are needed before operational use. The report therefore provides a foundation for further development while making its current functional limits visible to readers [1].

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