Materials Warehouse Management Program for Thanh Hoan Trading Co., Ltd. in Bac Giang

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***Abstract*—This undergraduate project examines "Materials Warehouse Management Program for Thanh Hoan Trading Co., Ltd. in Bac Giang." The Thanh Hoan warehouse program includes basic add, edit, delete, and search functions for goods and materials. The original conclusion also describes records for suppliers, customers, and related warehouses and an interface organized for straightforward use. Materials and warehouse work requires traceable receipts, issues, and stock balances. This paper therefore summarizes the documented software and its intended benefit without claiming proven time or cost savings. Field testing and validation of inventory records would be needed before assessing performance in routine use. The work is reported within the scope supported by the original manuscript, without assuming an unrecorded deployment or quantitative benefit.**

***Index Terms*—material management, warehouse, C#, SQL Server, inventory control, software development**

I. Introduction

Materials and warehouse work requires traceable receipts, issues, and stock balances. The thesis examines an organization's existing workflow and the information needed to support its selected task. It identifies a practical task, selects functions to study or build, and explains why the task matters to the organization concerned. The evidence for the project is its requirements analysis, design material, and described implementation. Intended advantages are distinguished from effects actually established in the manuscript [1]. Related earlier ICTU undergraduate theses provide context for this English summary [9]. Published books on the methods and subject of this project provide context for this English summary [10].

II. Methods

The student analyzed the selected case, described the relevant records and procedures, and prepared the design or program functions reported in the thesis. The design links input records to the updates, searches, reports, or other functions relevant to the task. Functional descriptions, diagrams, interfaces, and source conclusions are used where present to identify completed work. The manuscript is not treated as evidence of an additional user trial or dataset that it does not document [1].

III. Results

The Thanh Hoan warehouse program includes basic add, edit, delete, and search functions for goods and materials. The original conclusion also describes records for suppliers, customers, and related warehouses and an interface organized for straightforward use. It states that the company could manage materials more conveniently, but supplies no quantified comparison of staff time, errors, or resources saved. The supported result is the implemented set of record-management functions and system analysis. Measured operational improvement would require evaluation with actual warehouse transactions and users [1].

Supervisor: Lê Văn Phùng.

IV. Discussion

The Thanh Hoan warehouse program includes basic add, edit, delete, and search functions for goods and materials. The original conclusion also describes records for suppliers, customers, and related warehouses and an interface organized for straightforward use. The reported functions can be interpreted against the original organizational need, but implementation alone does not establish every intended benefit. This paper therefore summarizes the documented software and its intended benefit without claiming proven time or cost savings. Field testing and validation of inventory records would be needed before assessing performance in routine use. Reconciliation with a complete set of physical and recorded stock movements would test practical accuracy. The source provides a case study and a basis for later verification of completeness, reliability, and use [1]. Earlier ICTU undergraduate work by Vương Thị Thảo addressed warehouse and inventory management software [8].

V. Conclusion

The thesis presents a C# and SQL warehouse-management application for Thanh Hoan Trading. The author reports material, supplier, customer, and warehouse information functions, with basic record maintenance and search. The source conclusion views the program as useful for company management, but does not provide before-and-after measurements. This paper therefore summarizes the documented software and its intended benefit without claiming proven time or cost savings. Field testing and validation of inventory records would be needed before assessing performance in routine use [1].

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