Fixed Asset Management Software for ATK Non-Fired Materials Joint Stock Company in Thai Nguyen

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***Abstract*—The thesis analyzes fixed-asset management at ATK Non-Fired Materials Joint Stock Company in Thai Nguyen. The student surveyed staff, described the business task, prepared a system analysis and design, and implemented selected demonstration modules. The original conclusion calls the design fairly complete but says the coded portion remained limited in scope and quality. It does not document a production asset system or measured organizational benefits. This paper summarizes the design and partial prototype, with remaining implementation and testing clearly distinguished from completed results.**

***Index Terms*—Fixed asset management, C#, SQL Server, Data flow diagram, User interface, Software development**

I. Introduction

Accounting software must preserve vouchers and balances that can be checked against the source transactions. 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 [6], [7]. Published books on the methods and subject of this project provide context for this English summary [8].

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].

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III. Results

The thesis presents a survey and analysis of fixed-asset management at ATK Non-Fired Materials, a relatively complete system design, and trial implementation of selected modules. The original conclusion says the coded portion was still small and limited in quality. It does not establish a complete asset-registration, maintenance, and reporting system in company operation. No measured improvement in inventory accuracy or staff efficiency is reported. The supported result is the design package and partial demonstration program, with substantial implementation work still needed [1].

IV. Discussion

The thesis presents a survey and analysis of fixed-asset management at ATK Non-Fired Materials, a relatively complete system design, and trial implementation of selected modules. The original conclusion says the coded portion was still small and limited in quality. The reported functions can be interpreted against the original organizational need, but implementation alone does not establish every intended benefit. The thesis should therefore be treated as a case-based design and prototype, not a finished enterprise asset system. Further coding, testing, and company evaluation would be necessary to assess operational suitability. A later evaluation should reconcile the program's outputs with verified accounting records. The source provides a case study and a basis for later verification of completeness, reliability, and use [1]. Earlier ICTU undergraduate work by Dương Bích Phượng addressed fixed-asset management software [5].

V. Conclusion

The student interviewed company staff, described the fixed-asset task, analyzed and designed a management system, and tried several modules. The source conclusion explicitly states that the implemented program remained limited in scope and quality and required completion before practical use. The thesis should therefore be treated as a case-based design and prototype, not a finished enterprise asset system. Further coding, testing, and company evaluation would be necessary to assess operational suitability [1].

References

[1] Trần Thị Thái, ”Fixed Asset Management Software for ATK Non-Fired Materials Joint Stock Company in Thai Nguyen,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2014.

[2] Nguyễn Văn Huân, Vũ Xuân Nam, Lê Anh Tú (2012), Lập trình ứng dụng kinh tế, Tài liệu lưu hành nội bộ Khoa HTTT Kinh tế, Trường ĐH CNTT & TT

[3] Trần Công Uẩn (2005), Giáo trình cơ sở dữ liệu, Nhà xuất bản thống kê Hà Nội

[4] Ngô Trung Việt (2008), Phân tích và thiết kế hệ thống quản lý doanh nghiệp, Nhà xuất bản Thống kê

[5] Dương Bích Phượng, ”Construction of Fixed Asset Management Program at Phu Binh District Tax Office, Thai Nguyen Province,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[6] Trần Thị Thơm, ”Analysis, Design, and Construction of Fixed Asset Management Software at Private Company Tiến Vũ - Thái Nguyên,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[7] Lương Thị Lan, ”Fixed Asset Accounting Program for Thang Long Packaging Co., Ltd. in Hung Yen,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[8] I. Sommerville, Software Engineering, 7th ed. Addison-Wesley, 2004. ISBN 9780321210265.