Materials Management Program for Thai Hung Steel Plant in Hai Duong

Vi Thị Thoa
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student359@ictu.edu.vn

***Abstract*—This undergraduate thesis addresses materials management at Thai Hung Steel Plant. The student surveyed the steel plant's materials practices and prepared system analysis and design. The report documents the business workflow and selected program components. Materials and warehouse work requires traceable receipts, issues, and stock balances. The documented contribution is the case analysis and the selected software or analytical work described in the manuscript. The report does not quantify the effect of the program on plant inventory or costs. Its practical value can be assessed further through the specific records and users involved in this task.**

***Index Terms*—material management, database design, C#, SQL Server, steel plant, inventory management**

I. Introduction

Materials and warehouse work requires traceable receipts, issues, and stock balances. The organization in this thesis faced a concrete need concerning materials management at Thai Hung Steel Plant. The student used that setting to define a manageable graduation project and to select the records and functions most relevant to the case. The work aims to organize the process and make its main steps easier to inspect. The present account follows the scope stated in the manuscript rather than assuming that the intended organizational benefits were measured [1]. Published books on the methods and subject of this project provide context for this English summary [9].

II. Methods

The student surveyed the steel plant's materials practices and prepared system analysis and design. The case study begins with the relevant workflow and identifies the information that the proposed function must receive, retain, or produce. The manuscript then describes the design or implementation choices for the selected tasks. Its diagrams, interface descriptions, or program sections provide the basis for this account. No additional test population, dataset, or deployment procedure is attributed to the work when it is absent from the thesis [1].

III. Results

The report documents the business workflow and selected program components. These outputs show which parts of the stated task were analyzed or implemented for this case. The manuscript supports describing the selected functions and their relationship to the organization's workflow. It does not quantify the effect of the program on plant inventory or costs. The result is therefore a student system or analysis with a defined scope, while broader operating effects remain for a later evaluation [1].

Supervisor: Nguyễn Việt Hùng.

IV. Discussion

Materials and warehouse work requires traceable receipts, issues, and stock balances. The reported output addresses part of that problem by organizing the selected data and functions. The report does not quantify the effect of the program on plant inventory or costs. Reconciliation with a complete set of physical and recorded stock movements would test practical accuracy. Those checks would clarify whether the design works beyond the examples and conditions described in the graduation thesis. The project remains useful as a documented case of requirements analysis and a corresponding software or analytical response [1]. Earlier ICTU undergraduate work by Nguyễn Thị Hoài addressed materials management software [8].

V. Conclusion

The student surveyed the steel plant's materials practices and prepared system analysis and design, and the report documents the business workflow and selected program components. This establishes a case-specific output for materials management at Thai Hung Steel Plant. The manuscript does not quantify the effect of the program on plant inventory or costs. Reconciliation with a complete set of physical and recorded stock movements would test practical accuracy. Accordingly, claims of routine adoption or measured organizational improvement remain outside the result demonstrated here [1].

References

[1] Vi Thị Thoa, "Materials Management Program for Thai Hung Steel Plant in Hai Duong," internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2014.
[2] Phạm Hữu Khang (2006), Lập trình Windown forms (Tập 2), NXB đại học quốc gia Hà Nội
[3] Phạm Hữu Khang (2006), Lập trình hướng đối tượng Csharp (tập 3), NXB Lao Động Xã Hội
[4] Phạm Hữu Khang (2006), Lập trình cơ sở dữ liệu phân tích thiết kế (tập 4_ 2 quyển), NXB Lao Động Xã Hội

[5] Nguyễn Văn Ba (2006), Phân tích và thiết kế hệ thống thông tin, NXB Đại học Quốc gia Hà Nội
[6] Đỗ Trung Tuấn(2007), Cơ sở dữ liệu, Nhà xuất bản Giáo dục
[7] Biên dịch Thái Thành Phong(2007),Các giải pháp lập trình C#, NXB Đại học Quốc gia Hà Nội
[8] Nguyễn Thị Hoài, ”Construction of Material Accounting Software at GBF Construction and Trade Joint Stock Company - Hanoi,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.
[9] I. Sommerville, Software Engineering, 7th ed. Addison-Wesley, 2004. ISBN 9780321210265.