# E-Warehouse System for The Gioi Di Dong Joint Stock Company in Thai Nguyen

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***Abstract*—This undergraduate thesis addresses the e-warehouse workflow at The Gioi Di Dong in Thai Nguyen. The student studied the warehouse process and adapted an OpenERP module using Python and PostgreSQL. The report reports selected warehouse functions and localization work. An ERP warehouse module tracks stock movements within a wider enterprise system. The documented contribution is the case analysis and the selected software or analytical work described in the manuscript. The report does not quantify an inventory-accuracy or cost benefit from routine company use. Its practical value can be assessed further through the specific records and users involved in this task.**

***Index Terms*—Python, PostgreSQL, OpenERP, E-Warehouse, Inventory Management, Thai Nguyen World Mobile**

## I. Introduction

An ERP warehouse module tracks stock movements within a wider enterprise system. The organization in this thesis faced a concrete need concerning the e-warehouse workflow at The Gioi Di Dong in Thai Nguyen. 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 [10].

## II. Methods

The student studied the warehouse process and adapted an OpenERP module using Python and PostgreSQL. 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 reports selected warehouse functions and localization work. 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 an inventory-accuracy or cost benefit from routine company use. The result is therefore a student system or analysis with a defined scope, while broader operating effects remain for a later evaluation [1].

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## IV. Discussion

An ERP warehouse module tracks stock movements within a wider enterprise system. The reported output addresses part of that problem by organizing the selected data and functions. The report does not quantify an inventory-accuracy or cost benefit from routine company use. Operational assessment would require stock reconciliation and feedback from the company's users. 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 Vương Thị Thảo addressed warehouse and inventory management [9].

## V. Conclusion

The student studied the warehouse process and adapted an OpenERP module using Python and PostgreSQL, and the report reports selected warehouse functions and localization work. This establishes a case-specific output for the e-warehouse workflow at The Gioi Di Dong in Thai Nguyen. The manuscript does not quantify an inventory-accuracy or cost benefit from routine company use. Operational assessment would require stock reconciliation and feedback from the company's users. Accordingly, claims of routine adoption or measured organizational improvement remain outside the result demonstrated here [1].

## References

[1] Nguyễn Thị Hương, "E-Warehouse System for The Gioi Di Dong Joint Stock Company in Thai Nguyen," internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2014.
[2] Nguyễn Văn Ba, (2000), Phân tích và thiết kế hệ thống thông tin, Nhà xuất bản Đại học quốc gia Hà Nội
[3] Trần Đức Lộc, Trần Văn Phùng (2008), Quản trị sản xuất và tác nghiệp, Nxb Tài chính
[4] Nguyễn Văn Luận, Lữ Đức Thành (2006), Hệ quản trị cơ sở dữ liệu postgreSQL, Nhà xuất bản giao thông vận tải

[5] Nguyễn Ngọc Bảo Nam (2008), Các giải pháp lập trình Pythons, Nhà xuất bản giao thông vận tải
[6] Dương Quang Thiện (2012) Tim hiểu và triển khai hệ quản trị cơ sở dữ liệu PostgreSQL, Nhà xuất bản Tp Hồ Chí Minh
[7] Dương Quang Thanh, (2008), hệ thống thông tin quản lý doanh nghiệp, NXB Khoa Học và Kỹ Thuật
[8] Trần Trung Việt, (2010), Lập trình Python cơ bản, NXB Quốc gia Hà Nội
[9] Vương Thị Thảo, ”Multi-Price Inventory Management at Nhan Trung Co., Ltd. in Bac Giang,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.
[10] Michael ten Hompel, Thorsten Schmidt, ”Warehouse Management,” Springer Berlin Heidelberg, 2007. ISBN 9783540352181. DOI: 10.1007/978-3-540-35220-4.