A Warehouse Materials Management Application for Do Gia Furniture Company

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***Abstract*—This undergraduate thesis investigates a materials warehouse management application for Do Gia furniture company. A furniture business needs consistent records of materials, suppliers, stock receipts, and stock issues. The student analyses warehouse processes and builds an application with Laravel covering products, product categories, receipts, issues, reports, accounts, and supplier management. The manuscript reports implemented warehouse and reporting functions. Its conclusion says the project has shortcomings and proposes broader online deployment, more staff functions, and stronger security as future work. The source does not verify live warehouse use, stock reconciliation accuracy, financial impact, or a completed security assessment. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—warehouse management, Laravel, materials inventory, Do Gia**

I. Introduction

A furniture business needs consistent records of materials, suppliers, stock receipts, and stock issues. This thesis investigates a materials warehouse management application for Do Gia furniture company. It begins from a practical engineering need and explains the technologies and workflow chosen for the case. The objective is to document a student implementation or comparative investigation, together with the evidence available in the manuscript. Broader operational or economic effects require separate measurements and are not assumed from the existence of a prototype [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 student analyses warehouse processes and builds an application with Laravel covering products, product categories, receipts, issues, reports, accounts, and supplier management. The source is summarized through its stated design, implementation material, examples, and conclusion. Features shown in the manuscript are distinguished from proposals for later development. This review does not add a new experiment, fill missing measurements with estimates, or treat a planned capability as an observed result. The source thesis remains the provenance for the reported work [1].

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III. Results

The manuscript reports implemented warehouse and reporting functions. Its conclusion says the project has shortcomings and proposes broader online deployment, more staff functions, and stronger security as future work. The report's screens, configurations, examples, or measurements constitute the evidence for this summary. A capability described only as a design intention is not counted as a validated operational outcome. No additional performance, adoption, financial, or safety figure has been introduced here. The result is interpreted within the scope of the student's documented setup [1].

IV. Discussion

The source does not verify live warehouse use, stock reconciliation accuracy, financial impact, or a completed security assessment. Further work could test stock movements with real records, define access controls, and evaluate reliability before broader deployment. These limitations affect how the evidence should be read. The current manuscript can support understanding of the design and reported demonstration, while independent tests would be needed for stronger claims. Any later deployment should document its environment and separate observed outcomes from intended benefits [1].

V. Conclusion

The thesis documents a materials warehouse management application for Do Gia furniture company. The manuscript reports implemented warehouse and reporting functions. Its conclusion says the project has shortcomings and proposes broader online deployment, more staff functions, and stronger security as future work. The source does not verify live warehouse use, stock reconciliation accuracy, financial impact, or a completed security assessment. Further work could test stock movements with real records, define access controls, and evaluate reliability before broader deployment. Accordingly, the present contribution is a source-grounded account of the student work and its tested or illustrated scope. Claims about broader effectiveness should be assessed in later work using explicit evaluation conditions [1].

References

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