A Materials Management Application for Hong Phuc Plastics

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***Abstract*—This undergraduate thesis investigates a materials management application for Hong Phuc Plastics. The company needs to search and manage materials, employees, and account information through a consistent interface. The student analyses the management workflow and implements screens for material information, employee records, and account administration, including search and add, edit, and delete operations. The report illustrates the application interfaces. Its final evaluation says the project was basically completed but that some functions are unstable, the feature set is incomplete, and the interface needs refinement. The source does not substantiate its broad security and database-capacity claims with tests, nor does it document real operational rollout or stock reconciliation. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—materials management, Hong Phuc Plastics, desktop application, inventory**

I. Introduction

The company needs to search and manage materials, employees, and account information through a consistent interface. This thesis investigates a materials management application for Hong Phuc Plastics. 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 the management workflow and implements screens for material information, employee records, and account administration, including search and add, edit, and delete operations. 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 report illustrates the application interfaces. Its final evaluation says the project was basically completed but that some functions are unstable, the feature set is incomplete, and the interface needs refinement. 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 substantiate its broad security and database-capacity claims with tests, nor does it document real operational rollout or stock reconciliation. Further work could stabilize the existing functions and test data correctness, access controls, and usability with realistic company records. 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 management application for Hong Phuc Plastics. The report illustrates the application interfaces. Its final evaluation says the project was basically completed but that some functions are unstable, the feature set is incomplete, and the interface needs refinement. The source does not substantiate its broad security and database-capacity claims with tests, nor does it document real operational rollout or stock reconciliation. Further work could stabilize the existing functions and test data correctness, access controls, and usability with realistic company records. 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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