A Store Management Application for Ha Thanh

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***Abstract*—This undergraduate thesis investigates a management application for Ha Thanh store. Store staff need organized records for day-to-day product and transaction activities. The student studies the store workflow, designs a software application, and illustrates its principal screens and functions in the thesis. The conclusion says the student application meets part of its stated scope. It explicitly notes an unattractive interface, incomplete functions, and some unoptimized performance. Security improvements and artificial intelligence are future proposals rather than delivered features. The source does not provide a formal performance benchmark, security assessment, or evidence of routine operational use at the store. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—store management, retail software, user interface, performance**

I. Introduction

Store staff need organized records for day-to-day product and transaction activities. This thesis investigates a management application for Ha Thanh store. 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 studies the store workflow, designs a software application, and illustrates its principal screens and functions in the thesis. 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].

III. Results

The conclusion says the student application meets part of its stated scope. It explicitly notes an unattractive interface, incomplete functions, and some unoptimized performance. Security improvements and artificial intelligence are future proposals rather than delivered features. 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 provide a formal performance benchmark, security assessment, or evidence of routine operational use at the store. A later iteration could complete missing workflows, improve interface clarity, and measure response time under realistic data volumes. 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 management application for Ha Thanh store. The conclusion says the student application meets part of its stated scope. It explicitly notes an unattractive interface, incomplete functions, and some unoptimized performance. Security improvements and artificial intelligence are future proposals rather than delivered features. The source does not provide a formal performance benchmark, security assessment, or evidence of routine operational use at the store. A later iteration could complete missing workflows, improve interface clarity, and measure response time under realistic data volumes. 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].

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