A Mobile Management Application for Coffee 128

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***Abstract*—This undergraduate thesis investigates a mobile application for managing Coffee 128. A coffee shop needs a convenient interface for menu items and daily management tasks. The student develops a mobile management application and documents its interface, database interactions, and basic cafe workflows. The conclusion reports that basic goals were reached but says the program remains simple, work is slow, and some undetected technical errors may remain. Advanced ordering, payment, delivery, and loyalty functions are discussed as future possibilities. The source does not establish routine shop deployment, actual paid transactions, or a measured operational improvement. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—mobile application, coffee shop, Coffee 128, management**

I. Introduction

A coffee shop needs a convenient interface for menu items and daily management tasks. This thesis investigates a mobile application for managing Coffee 128. 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]. Related published studies provide context for the subject and methods [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 develops a mobile management application and documents its interface, database interactions, and basic cafe workflows. 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 reports that basic goals were reached but says the program remains simple, work is slow, and some undetected technical errors may remain. Advanced ordering, payment, delivery, and loyalty functions are discussed as future possibilities. 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 establish routine shop deployment, actual paid transactions, or a measured operational improvement. Further work could test the implemented flows with staff and customers, then add and evaluate missing features one at a time. 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 mobile application for managing Coffee 128. The conclusion reports that basic goals were reached but says the program remains simple, work is slow, and some undetected technical errors may remain. Advanced ordering, payment, delivery, and loyalty functions are discussed as future possibilities. The source does not establish routine shop deployment, actual paid transactions, or a measured operational improvement. Further work could test the implemented flows with staff and customers, then add and evaluate missing features one at a time. 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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