An Android Expense Management Application with Spending Suggestions

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***Abstract*—This undergraduate thesis investigates an Android application for recording expenses and presenting spending suggestions. Personal spending records can help users review where their money goes and plan future choices. The author studies Android development with Java, SQLite, and XML and builds an experimental expense-management application. The manuscript presents the interface and core data-handling workflow. The conclusion reports a student app for managing expenses. The title describes spending suggestions, but the source conclusion does not establish a validated recommendation method or measured improvement in personal financial decisions. The author acknowledges limited development experience and proposes larger databases and interface improvements. No independent security, budgeting-outcome, or long-term user study is supplied. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Android, expense management, SQLite, personal finance**

I. Introduction

Personal spending records can help users review where their money goes and plan future choices. This thesis investigates an Android application for recording expenses and presenting spending suggestions. 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]. Related published studies provide context for the subject and methods [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 author studies Android development with Java, SQLite, and XML and builds an experimental expense-management application. The manuscript presents the interface and core data-handling workflow. 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 conclusion reports a student app for managing expenses. The title describes spending suggestions, but the source conclusion does not establish a validated recommendation method or measured improvement in personal financial decisions. 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 author acknowledges limited development experience and proposes larger databases and interface improvements. No independent security, budgeting-outcome, or long-term user study is supplied. A later evaluation could document suggestion rules, test data accuracy, protect personal transactions, and observe user comprehension over 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 an Android application for recording expenses and presenting spending suggestions. The conclusion reports a student app for managing expenses. The title describes spending suggestions, but the source conclusion does not establish a validated recommendation method or measured improvement in personal financial decisions. The author acknowledges limited development experience and proposes larger databases and interface improvements. No independent security, budgeting-outcome, or long-term user study is supplied. A later evaluation could document suggestion rules, test data accuracy, protect personal transactions, and observe user

comprehension over 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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