An Android Application for Fashion Product Sales

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***Abstract*—This undergraduate thesis develops an Android application for selling fashion products. The manuscript describes customer and administrator roles and models product browsing, account login, cart operations, checkout, order history, product and order management, and revenue display. It reviews Android Studio and MySQL, presents use-case, sequence, state, and activity diagrams, and documents the application with interface screenshots. The demonstrated screens include the product catalogue, cart, checkout, successful order, profile, purchase history, administrator view, order detail, and income statistics. The author reports a basic prototype that supports product promotion and cart management but acknowledges unfinished functions and a need to improve the interface. Online payment is listed as future development. The manuscript does not provide evidence of settled payments, actual sales, a security audit, or a measured performance evaluation. This summary therefore describes the documented design and prototype without treating its proposed commercial benefits as verified outcomes.**

***Index Terms*—Android, fashion retail, mobile commerce, shopping cart, order management**

I. Introduction

Mobile shopping can give customers access to product information and ordering functions without visiting a physical store. This thesis narrows that idea to fashion products and proposes an Android sales application for customers and an administrator. The source frames product discovery, account access, order placement, and sales management as the main requirements. Its motivation includes convenience and a specialized fashion catalogue, but those expected benefits are not measured in the manuscript. This English summary follows the actual design diagrams and interface evidence, and distinguishes a displayed checkout screen from verified online payment processing [1]. Earlier ICTU student work on related designs is included here for context [2], [3], [4], [5], [6], [7], [8]. Published technical books provide background for the methods discussed in this summary [9], [10], [11]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The student reviews Android Studio and a MySQL database, surveys the intended sales workflow, and defines customer and administrator actors. The requirements describe product listings, search, cart modification, shipping address entry, ordering, payment options, purchase history, product maintenance, and income statistics. Use-case, sequence, state, and activity diagrams model login, cart operations, and checkout. The implementation chapter presents numbered application screens, from product browsing through order history and management. This summary examines the source cover, requirements, diagrams, screenshots, bibliography, and conclusion. It does not infer a deployed transaction service or an independent test suite from the interface images [1].

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III. Results

The report shows an Android product catalogue, customer and administrator login screens, product detail and cart screens, a checkout form, an order-success page, a user profile, password change, purchase history, an administrator view, order detail, and an income statistics screen. These figures substantiate a broad interface prototype for customer shopping and administrative oversight. The conclusion says the system partly supports automated product promotion and customer cart management. It also notes incomplete features and interface improvements still needed. The source gives no count of real customers or completed orders, no verified payment settlement, and no quantitative usability, security, or response-time results [1].

IV. Discussion

The prototype connects product browsing, cart actions, order placement, and administration in one design, but its operational reliability cannot be established from diagrams and screenshots alone. The author specifically proposes online payment as future work, so the checkout interface should not be presented as proof of a live payment integration. Unfinished functions and interface limitations could affect the customer journey. Before deployment, a later version should test account authorization, cart and order state changes, inventory consistency, payment boundaries, and recovery from invalid input. A user study and documented performance measurements would be needed to evaluate the claimed convenience and efficiency [1].

V. Conclusion

Lê Công Minh's thesis documents an Android fashion-sales application with customer shopping and administrator management functions. The source supports a designed and illustrated prototype for product browsing, cart management, ordering, profiles, purchase history, and sales views. The author reports partial achievement of the intended functions and identifies incomplete features and interface work. Online

payment, stronger security, and code optimization remain proposed extensions. The manuscript does not establish commercial adoption, confirmed payment, or measured system performance. Future work should complete the transaction flow and evaluate it with explicit functional, security, and usability tests [1].

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