A Cross-Platform Inventory Application for An Phat Computer Using Google AppSheet

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***Abstract*—This thesis develops a cross-platform inventory application for An Phat Computer using Google AppSheet. It analyzes stock-management tasks and configures views for item records, receipts, issues, stock checking, and QR-assisted data entry. The report describes a shared data source and presents screenshots of the application on supported devices. Its conclusion states that staff can view and update inventory from mobile devices and computers. It also notes dependence on an internet connection and unresolved concerns about data security and larger or distributed stores. The source does not give a controlled comparison of transaction time or a verified reduction in errors. The contribution is a documented low-code inventory prototype with operational and access-control questions left for later evaluation.**

***Index Terms*—inventory management, Google AppSheet, QR code, low-code, cross-platform**

I. Introduction

A computer shop must track goods entering and leaving storage and keep available quantities consistent. The thesis uses An Phat Computer as the case for an AppSheet application that staff can access from more than one device type. It introduces the platform and identifies functions for receipts, issues, and stock reports. The project aims to demonstrate those workflows; the source does not establish how the application performed during sustained store operation [1]. Earlier ICTU student work on related designs is included here for context [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 analyzes inventory records and configures Google AppSheet views around a shared data source. The report presents screens for item lists, incoming stock, outgoing stock, inventory checking, and QR-code handling. It documents user interactions and the organization of data and forms. Functional behavior is illustrated through application screenshots and descriptions. The manuscript does not specify a controlled measurement of entry speed, stock accuracy, or multi-site synchronization under real conditions [1].

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III. Results

The conclusion reports that staff can search, view, and update inventory information through the AppSheet interface. Screens in the implementation chapter show forms for receiving and issuing goods and a stock-checking view. QR scanning is described as a supported entry aid. These observations support the existence of the prototype functions. The source does not demonstrate a quantified saving in time or a measured decrease in stock errors [1].

IV. Discussion

A low-code application can present the same inventory data across device types, but the report identifies internet dependence as a practical constraint. It also raises the need for stronger security and for changes if the store becomes larger or distributed. The claims of convenience and efficiency are author assessments without a controlled comparison. A production rollout would require testing permissions, offline behavior, synchronization conflicts, and recovery from incomplete transactions [1].

V. Conclusion

The thesis documents an AppSheet inventory application for An Phat Computer with item, receipt, issue, stock-checking, and QR-related views. The screenshots and conclusion support that these workflows were configured. The report also identifies connectivity, security, and scale limitations. The work is a student prototype rather than a measured business intervention. Actual deployment would need further operational checks and staff validation [1].

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