An AppSheet Facilities-Management Prototype for Rua Vang Food

Dương Thị Hồng Vân
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student695@ictu.edu.vn

***Abstract*—This undergraduate thesis builds a Google AppSheet application for managing facilities and equipment at Rua Vang Food in Thai Nguyen. The student reviews an earlier process based on paper and spreadsheets, then creates a shared data model and interfaces for assets, purchasing, use, repair, inventory, and disposal. The manuscript shows app screens and describes role-based access and synchronization through Google Sheets. Its conclusion says the system made records easier to centralize and retrieve during a small trial, but does not provide a timed work study, error audit, or long-term loss figures. It also acknowledges incomplete automation, dependence on internet access and Sheets performance, limited integration with other departments, and a short evaluation period. This summary documents the developed prototype and its stated constraints without presenting unmeasured time savings or asset-loss reductions as proven results.**

***Index Terms*—AppSheet, facilities management, asset records, low-code, inventory**

I. Introduction

A food-service company needs to know where its equipment is, who uses it, when it needs repair, and how it is retired. Rua Vang Food had records spread across manual logs and simple spreadsheets. The thesis asks whether a low-code AppSheet application can centralize these asset processes. Its scope is the design and initial application of a local prototype, not an enterprise-wide controlled deployment [1]. Earlier ICTU undergraduate theses on related topics provide context [5], [6], [7], [8], [9], [10], [11]. These works were selected for this English summary and are not attributed to the source thesis bibliography. Published background sources on the methods and domain of this project provide context for the English summary [2], [3], [4].

II. Methods

The student surveyed the company's facilities workflow, mapped fields for equipment identity, location, condition, maintenance and disposal, and built an AppSheet interface connected to Google Sheets. The implementation chapter presents screens for entering and viewing records and describes user roles and synchronization. The author then compares the old and proposed workflows qualitatively. This summary checks the app features and conclusion against chapters 4.2–4.4. No complete asset reconciliation, dated task-time series, or independently measured cost result is included [1].

Supervisor: Mạch Quý Dương, Thai Nguyen University of Information and Communication Technology (mqduong@ictu.edu.vn).

III. Results

The source shows an operational prototype with forms and views for core asset records and supporting steps such as purchasing, repair, inventory, and liquidation. It describes centralized access and easier lookup during initial testing. The report states that staff time and errors were reduced but gives no measured amount or systematic audit. The concrete outcome supported by the manuscript is a developed AppSheet application and a limited trial, not a quantified operational effect. The author also notes that some automation and departmental integrations are unfinished [1].

IV. Discussion

Low-code tools can shorten prototype construction, but asset reliability depends on accurate migration, permissions, consistent updates, backups, and physical counts. The source identifies dependence on Google Sheets and internet connectivity and warns that data volume may affect synchronization. A next phase should reconcile the digital register to actual equipment, test access rights, record task times and corrections, and evaluate use across departments over a longer period. Earlier ICTU asset and inventory applications provide relevant precedents, not measured outcomes for Rua Vang Food [1].

V. Conclusion

The thesis produced an AppSheet facilities-management prototype and documented its first application at Rua Vang Food. It supports centralized entry and lookup for several asset stages. Larger-scale operation, verified accuracy, and measured efficiency remain to be established [1].

References

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