Development of a Multi-Platform Fashion Retail Management App for ColaShop on Google AppSheet Framework

NGUYỄN ANH TÚ
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student499@ictu.edu.vn

***Abstract*—This thesis presents the development of a multi-platform fashion retail management application for ColaShop using Google AppSheet. The application aims to support various retail operations, including inventory management, sales, and customer management. The work includes a detailed analysis of Google AppSheet, its advantages, and limitations, followed by the design and implementation of the application's user interface and functionality. The application was developed to manage retail operations for ColaShop, a fashion retail store, and includes features such as inventory management, sales, and customer management. The design and implementation were guided by the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The author acknowledges the limitations of the platform and the need for further improvements.**

***Index Terms*—Google AppSheet, fashion retail, multi-platform, inventory management, customer management**

I. Introduction

The thesis provides an overview of Google AppSheet, highlighting its cost, advantages, and limitations. It also discusses the system analysis and design, focusing on the development of a multi-platform application for ColaShop, a fashion retail store. The application aims to support various retail operations, including inventory management, sales, and customer management. The design and implementation were guided by the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The author acknowledges the limitations of the platform and the need for further improvements. Earlier ICTU student work on related designs is included here for context [3], [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 conducted a thorough analysis of Google AppSheet, including its features and limitations, and designed the application's user interface and functionality. The implementation was carried out using Google AppSheet, with a focus on creating a user-friendly interface for managing retail operations. The application includes features such as inventory management, sales, and customer management. The design and implementation were based on the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The author acknowledges the limitations of the platform and the need for further improvements.

Supervisor: Đỗ Đình Cường, Thai Nguyen University of Information and Communication Technology (ddcuong@ictu.edu.vn).

III. Results

The application was developed and includes features such as inventory management, sales, and customer management. The design and implementation were based on the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The application was developed to manage retail operations for ColaShop, a fashion retail store. The application includes a user-friendly interface for managing retail operations, including inventory management, sales, and customer management. The author acknowledges the limitations of the platform and the need for further improvements [1].

IV. Discussion

The application's design and implementation were guided by the analysis of Google AppSheet, aiming to leverage its capabilities for retail management. The author acknowledges the limitations of the platform and the need for further improvements. The application includes features such as inventory management, sales, and customer management. The design and implementation were based on the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The author expresses a desire for further improvements and contributions from peers [1]. Earlier ICTU undergraduate work by Nguyễn Văn Thuận addressed online clothing-sales workflows [2].

V. Conclusion

The application's design and implementation were guided by the analysis of Google AppSheet, and the author expresses a desire for further improvements and contributions from peers. The application includes features such as inventory management, sales, and customer management. The design and implementation were based on the analysis of Google AppSheet, ensuring compatibility across multiple platforms. The author acknowledges the limitations of the platform and the need for further improvements [1].

References

[1] NGUYỄN ANH TÚ, ”Development of a Multi-Platform Fashion Retail Management App for ColaShop on Google AppSheet Framework,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2024.

[2] Nguyễn Văn Thuận, ”Construction of an Introduction and Clothing Sales Website for Duy Shop in Thai Nguyen,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[3] ICTU Student 122, ”Construction of an Online Sales Management Program,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2009.

[4] Vương Thị Thảo, ”Multi-Price Inventory Management at Nhan Trung Co., Ltd. in Bac Giang,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[5] Lô Khánh Hòa, ”Construction of an Online Clothing Store Website for Ilike Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[6] Nguyễn Thị Hằng, ”Warehouse Management Program Based on a Multi-Price Inventory Model for Lien Cong Co., Ltd. in Nghe An,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2014.

[7] Trần Duy Nam, ”Construction of an Online Shopping Website for Makima Fashion Store with a Korean Style,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.

[8] Đinh Tiến Tùng, ”Construction of an E-commerce Website for Laptop Sales for Hoang Anh-Bac Giang Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[9] Lê Văn Tỉnh, ”Construction of an Online Clothing Sales Website for Trang Vu Clothing,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[10] Đặng Vũ Hưng, ”Development of Sales Management Software for Minh Anh Warehouse,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.