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Implementing AppSheet for Digitalizing Inventory and Sales at Salwa Electronics Small Business

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ABSTRAK

Usaha kecil seperti Salwa Electronics menghadapi berbagai tantangan dalam pengelolaan persediaan dan penjualan akibat pencatatan manual yang tidak efisien dan rentan terhadap kesalahan. Proyek ini bertujuan untuk mengimplementasikan aplikasi manajemen inventori dan penjualan berbasis web dengan menggunakan platform *no-code* AppSheet guna meningkatkan efisiensi dan ketepatan dalam pengelolaan data. Metode yang digunakan meliputi analisis kebutuhan, perancangan aplikasi, pengembangan, serta pengujian dalam konteks operasional bisnis sehari-hari. Aplikasi yang dikembangkan mampu mencatat stok secara *real-time*, memantau persediaan secara otomatis, serta menampilkan laporan penjualan digital yang mudah dipahami. Dengan adanya solusi ini, pemilik usaha dapat mengakses data persediaan secara langsung, menghindari kekurangan stok, dan mengelola penjualan secara sistematis tanpa memerlukan keterampilan pemrograman teknis. Inovasi terletak pada pemanfaatan teknologi *no-code* sebagai solusi praktis dan terjangkau bagi usaha kecil dalam menghadapi transformasi digital. Proyek ini memberikan nilai tambah berupa peningkatan efisiensi operasional serta pengambilan keputusan bisnis berbasis data yang lebih cepat dan akurat.

Kata Kunci: Digitalisasi Inventori; Manajemen Penjualan; Platform *No-Code*; AppSheet; Usaha Kecil; Transformasi Digital.

ABSTRACK

Small businesses such asSalwa Electronics facing challenges in inventory and sales management due to inefficient and error-prone manual recording. This project aims to implement a web-based inventory and sales management application.cloud using the platform no-code AppSheet to improve the efficiency and accuracy of data management. The methods used include needs analysis, application design, development, and testing in daily business operations. The application developed is able to record stock in real time, monitor inventory automatically, and display easy-to-understand digital sales reports. With this solution, business owners can access inventory data directly, avoid stock shortages, and manage sales systematically without the need for technical programming skills. Innovation lies in the use of technology no-code as a practical and affordable solution for small businesses in facing digital transformation. This project provides added value in the form of increasing operational efficiency and faster, more accurate data-driven business decision making.

Keywords*: inventory digitization; sales management; no-code platform; AppSheet; small business; digital transformation*

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INTRODUCTION

Small businesses such asSalwa Electronics has an important role in supporting the community's need for electronic products. However, as the number of transactions and product variations increase, manual management of inventory and sales data becomes increasingly inefficient. Recording that still uses books or simple spreadsheet files often results in inaccurate data, delays in stock information, and difficulties in making business reports quickly and accurately.

The main problem faced is the lack of a digital system that can monitor stock in real time and record sales in a structured manner. This has an impact on business decision-making, such as when to restock goods or what products are the best sellers, which should be based on data. Unfortunately, many small business owners feel that digitization requires large costs and special technical expertise.

To address these challenges, this project aims to implement a web-based inventory and sales management application.cloud using the platform AppSheet. AppSheetis a platform no-code which allows users to create functional applications without having to write programming code. This platform is perfect for small business owners because it is easy to use, can be accessed via smartphone, and is directly integrated with servicesGoogle Sheets.

In this project, a simple yet functional application is created that is able to record incoming and outgoing stock, monitor remaining stock automatically, record sales transactions, and display weekly sales reports in digital format. With this application, business owners can find out inventory conditions in real-time, avoid running out of stock, and systematically organize transaction records.

The added value of this project is to provide an affordable and easy-to-use digital solution, without the need for large investments in software or complex technical expertise. Innovation lies in the use of technology no-code as a bridge for digital transformation for small businesses, which have often been left behind in the application of information technology. With this simple step,Salwa Electronics can improve operational efficiency and make faster, more accurate data-driven business decisions.

LITERATURE REVIEW

Digitalization has become an urgent need for Micro, Small, and Medium Enterprises (MSMEs) to improve operational efficiency and competitiveness. The use of information technology, especially cloud computing, enabling MSMEs to manage data more effectively without major investments in technology infrastructure. According to Hutajulu (2024),cloud computing offers operational efficiency, reduced infrastructure costs, and supports more flexible business practices and high scalability.

Platform no-code like AppSheetprovide practical solutions for MSMEs that have limited human resources in the field of information technology. With AppSheet, users can build business applications without having to write programming code, enabling the digitization of business

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processes such as inventory management and sales. This is in line with the findings in the book "Digital UMKM" which emphasizes the importance of digital adaptation so that UMKM are not left behind in global competition.

A study by Lestari and Siregar (2021) shows that the use of mobile applications can increase time efficiency in managing MSME inventory. With digitalization, the stock recording process becomes more accurate and can be accessed in real-time, facilitating business decision making.

In addition, digital transformation in MSMEs can also increase market access and product innovation. According to research by Juwita and Handayani (2022), digitalization allows MSMEs to reach a wider market and adapt to changes in consumer behavior in the Society 5.0 era.

Taking into account the literature, the application ofAppSheetfor digitalization of inventory and sales in small businesses such as Salwa Electronics is a strategic step. This solution not only improves operational efficiency but also opens up opportunities for more sustainable business growth in the digital era.

METHODS

This project uses a web-based application development approach.no-code with the platform AppSheetfor digitalization of inventory and sales in small businesses Salwa Electronic. The implementation stages are carried out sequentially starting from needs analysis, application design, implementation, to testing and evaluation.

Project Design

The project design follows a simple application development cycle consisting of identifying manual recording problems, designing application features according to business needs, creating the application using AppSheet, as well as testing application functions under real operational conditions.

Implementation Procedure

1. Needs Analysis: Conducting interviews and direct observations in Salwa Electronic understand the on going inventory and sales recording process, and identify key constraints.

2. Application Design: Create a digital workflow that includes recording incoming/outgoing stock, sales transactions, and automatic reports, then design a data structure that is integrated with Google Sheets.

3. Application Development: Building applications using the platform AppSheet by utilizing templates and features no-code, customizing the user interface to make it easy for business owners to use.

4. Testing and Evaluation: Conducting application trials for a certain period of time to ensure that the functions work as required, as well as collecting feedback for application improvements.

The data used in the application includes incoming stock, outgoing stock, and sales and inventory visualization graphic data. All of this data is input directly by the owner. Salwa Electronics through the application using a smartphone device. Data on incoming and outgoing stock is

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recorded in real-time, while graphs are automatically generated by the application to facilitate monitoring of sales trends and inventory movements. During the trial period, data is verified periodically to ensure the accuracy and consistency of the information stored.

RESULT AND DISCUSSION

1. Item Data

This feature is used to record and display a list of available items, including information such as item name, current stock, and price. The entered data is automatically saved to the connected Google Sheets.

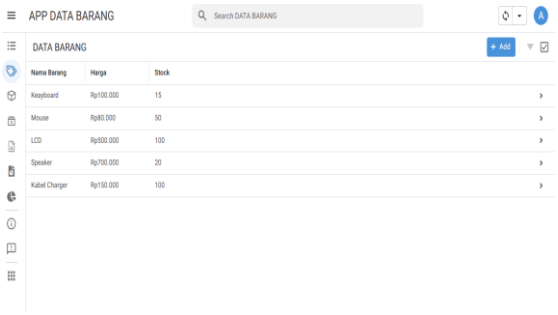


Figure 1. Goods Data

2. Item Details

When a user selects an item, the application will display detailed information about the item such as a complete description, storage location, entry date, and data change history. This feature helps users conduct a more in-depth check on each item.

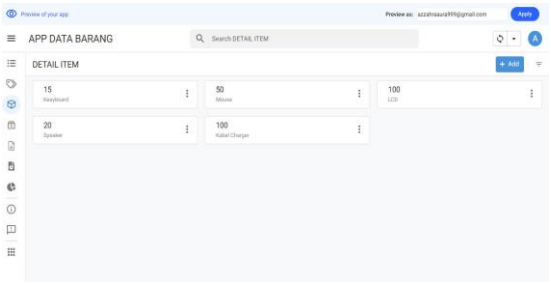


Figure 2. Goods Data

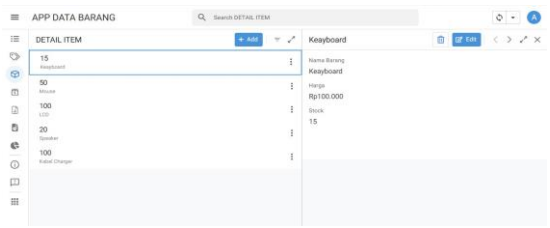


Figure 3. Goods Data

3. Sales Data

This feature records all sales transactions that occur, including information such as the date of sale, the name of the item sold, the number of units, the price per unit, and the total transaction. This data is automatically stored in an integrated spreadsheet, making it easy to track sales history and analyze product performance over time.

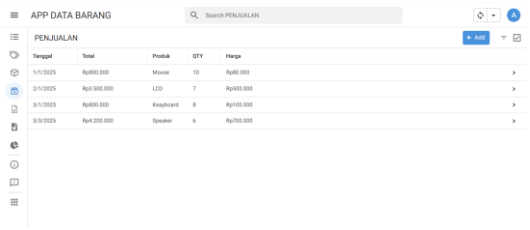


Figure 4. Goods Data

4. Item Data Graph

This graph presents stock data in the form of a bar graph based on category or type of goods. This visualization aims to provide a quick and easy-to-understand overview of stock distribution in a warehouse or store.

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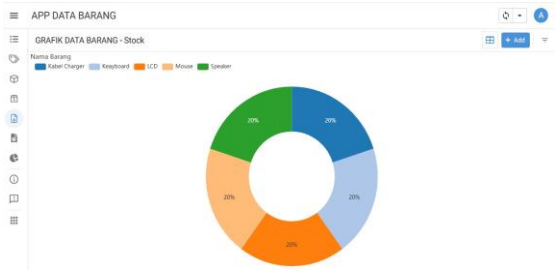


Figure 5. Goods Data Graph

5. Sales Chart – QTY

This graph presents visual data on the number of units of goods sold in a certain period. With this graph, users can easily identify items with the highest and lowest sales volumes.

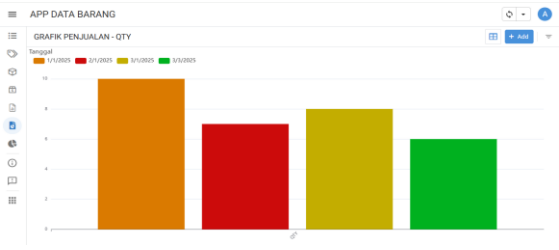


Figure 6. Sales Graph - QTY

6. Sales Graph – Total

This graph displays the total sales value of each item or category. This feature is useful for viewing the revenue contribution of each product, as well as evaluating the effectiveness of sales strategies.

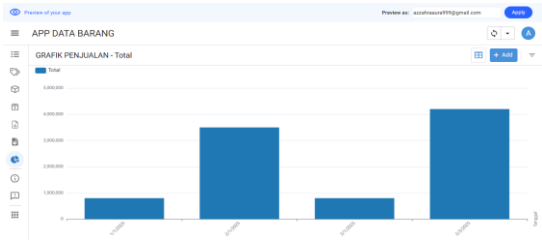


Figure 7. Sales Graph - Total

CONCLUSIONS

Application implementation project based on no-codeAppSheet on Salwa Electronics successfully increased the efficiency of inventory management and sales recording by presenting a system that is easy to use and can be accessed in real-time. This application automatically records incoming and outgoing stock and presents digital sales reports that support faster and data-based business decision making. This solution is affordable and does not require programming skills, helping small businesses digitally transform from manual recording.

However, this project has some limitations. A stable internet connection is an important factor for a web-based application.cloudcan run optimally. Data validity depends on the accuracy of the business owner in entering data manually, which can cause input errors. In addition, the application is not yet equipped with advanced features such as integration with financial systems or automatic reminders for restocks, which are needed when the business grows.

These limitations need to be addressed in further development to improve the validity and functionality of the application. User training is also needed to reduce operational errors. Overall, this project provides a practical contribution for small businesses to start digitizing with a simple and affordable approach.

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