

Desktop Based Furniture Sales Information System (Case Study: Faiza Houseware & Furniture Store)

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ABSTRACT

This study aims to build a desktop-based furniture sales information system at Faiza Houseware & Furniture Store. Toko Faiza Houseware & Furniture is one of the stores engaged in the sale of furniture products such as tables, benches, beds, and kitchen sets. Until now, Faiza Houseware & Furniture Store has not utilized information system technology to support its sales data processing. Toko Faiza Houseware & Furniture still utilizes ledgers to record furniture sales data reports that are made every day. So that data corruption and even data loss often occurs. The data collection techniques used are observation, interviews, and literature studies. The programming language that the author uses to build a desktop-based furniture sales information system that will be implemented at Toko Faiza Houseware & Furniture is Visual Basic .Net. Visual Basic Net is an object-oriented programming language that allows users to create applications with visual techniques. The tool used by the author as a data storage in the desktop-based furniture sales information system built is Microsoft Access. Data reports processed in the desktop-based furniture sales information system can be displayed and printed through Crystal Report. The results showed that the desktop-based furniture sales information system built in this study can improve operational performance and customer service by speeding up and simplifying the furniture sales process at Toko Faiza Houseware & Furniture.

Keywords: Information System, Sales, Desktop, Visual Basic .Net, Microsoft Access

1. INTRODUCTION

The implementation of information systems that prioritize access to timely, relevant, and accurate information is essential in the sales business. This capability enables companies to monitor stock, analyze sales, support decision-making, improve customer service, and optimize processes efficiently. Thus, companies can gain a competitive advantage and improve overall business performance (Manajemen et al. 2023). Information Systems are a collection of interconnected components, aiming to manage information from various sources, process it, and provide it to users efficiently (Risti 2023).

Furniture is one of the furniture products, which provides products such as tables, chairs, beds, shelves, frames and others. Furniture is used for household furniture, which functions as a storage area, such as a seat, bed, place to do something or place to put things on it (Sokibi and Eka Putri 2022). Furniture is equipment for homes, offices, schools, hospitals, restaurants and so on. What is needed, useful or preferred, which can be moved and used.

Toko Faiza Houseware & Furniture is one of the leading stores in Medan. Toko Faiza Houseware & Furniture is an individually owned business engaged in products, namely providing various kinds of furniture such as tables, benches, beds, and kitchen sets. Until now, Toko Faiza Houseware & Furniture has not utilized information system technology to support its seller data processing. Toko Faiza Houseware & Furniture still utilizes ledgers to record reports. So that data corruption often occurs and even data loss.

Efforts to overcome these problems in this study the author offers to create a desktop-based furniture sales information system. In building this information system the author uses the Visual Basic .Net application is Visual Basic which is re-engineered for use on the .net platform so that applications made with Visual Basic.Net can run on any computer system (Rozikin and Achlison 2022).

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2. LITERATURE REVIEW

In previous research conducted by (Putra, Mulyono, and Pratama 2022), this study concluded that a desktop-based sales information system has increased the effectiveness and efficiency of Toko Raufa's work system. With this system, store employees can work more efficiently because they no longer need to process data manually. The process of searching, processing data, and making reports is also made easier with this system. (Mutia et al. 2021) in his research shows that a desktop-based information system is held to support sales recording activities, storage of archives, recording stock and processing sales data in a computerized manner so that accurate and precise sales reports can be generated. (Azis, Hakim, and Walim 2020) in his research conducted a design with the waterfall method to build a desktop-based apprentice attendance application. The results of the research conducted show that the Abang 1.0 application reporting is more effective and efficient than the paper-based manual method. Then research conducted by (Ananditya, Sriyono, and Yanti 2020) on a desktop-based online game voucher sales information system, the results of the study concluded that an efficient desktop-based information system can help the performance of internet cafes during transactions.

3. METHOD

Research Stages

Some of the stages carried out by the author in the implementation of this research can be shown in Figure 1 below:

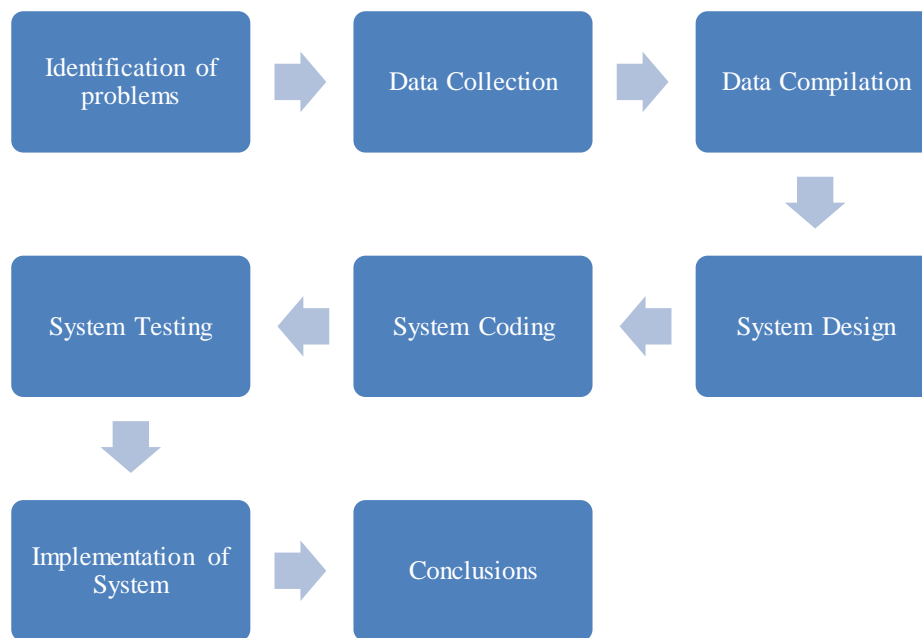


Fig 1. Research Stages

Figure 1 above shows that the research stages carried out by the author in this study consist of 8 (eight) activities. In the first stage, the author identifies the problem to determine the main topic of the problem to be solved. In the second stage, the author collects data related to the topic of the research being conducted, namely through the process of observation, interviews, and literature studies. In the third stage, the author conducts data selection to determine the data used in this. In the fourth stage the author designs the information system to be built using system design tools. In the fifth stage the author builds the system using the Visual Basic .Net programming language. In the ninth stage the author tests the system that has been built to find out whether it can be used to process data or not. In the tenth stage the author implements a system that has passed testing at the Faiza Houseware & Furniture Store. In the last stage the author draws conclusions from the results of this research.

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Information System

Information system is an organized combination of work procedures, information, people, and technology to achieve a goal (Marjono 2020). These systems are essential for business managers to make better decisions, create new products and services, and compete more effectively (Samodro and Rudianto 2023).

Sales

Sales is the strategic process of meeting the needs and wants of buyers in order to generate profits. It is the lifeblood of the company, as sales aim to attract buyers and demonstrate the attractiveness of the product (Anggraini et al. 2020).

Desktop

Desktop based information systems are software that tends to be faster than web applications. Desktop applications use the resources of the user's device directly without relying on the internet or remote servers (Salam, Prihandani, and Purnamasari 2023).

Visual Basic .Net

Visual Basic .Net is an object-oriented programming language that allows users to create applications with visual techniques. Visual Basic .Net uses the BASIC language to develop applications on top of the .Net framework, including Windows Forms and ASP .Net-based web applications (Rahmawati & Indahyanti, 2020:1).

Microsoft Access Database

A database is a collection of data related to a specific topic, object, or purpose, such as a phone book, student data, employee data, or customer data. These databases must be organized with clear, patterned criteria from the start in order to efficiently manage large amounts of data and information. Microsoft Access is often used to create simple database applications (Geni et al. 2023).

System Design

The system design proposed by the author in this study to build a furniture sales information system at Toko Faiza Houseware & Furniture can be seen in the figure below:

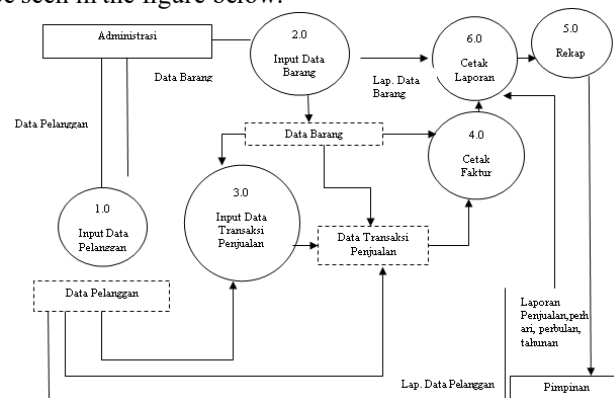


Fig 2. Level 0 Diagram for Desktop-Based Furniture Sales Information System at Faiza Houseware & Furniture Store

Figure 2 above is an overview of the system flow in the desktop-based furniture sales information system at Toko Faiza Houseware & Furniture which is proposed to solve the sales data processing problems that occur. In Figure 2 above, it is shown that in the proposed information system there are customer data input forms, item data input forms, sales transaction data input forms, and report forms to attach customer data reports, item data reports, and sales transaction data reports.

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4. RESULT

The results of designing and coding a desktop-based furniture sales information system at Toko Faiza Houseware & Furniture that the author has completed in this research can be seen in the following description:

Form Login

The most important display implementation in this information system is the login display. This display will always appear when this program is run. Users will be asked to enter a username and password that has been registered in the database. The Login display is as follows.

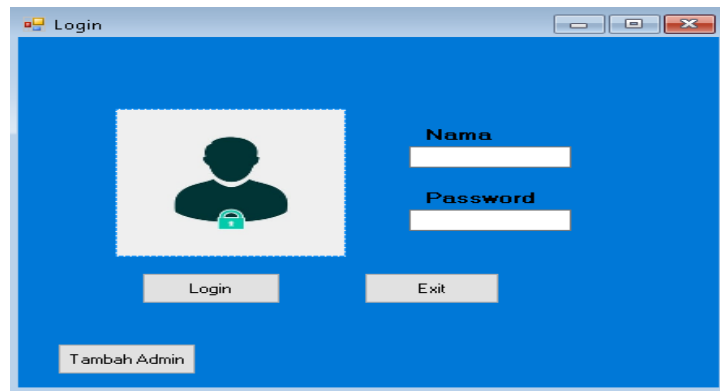


Fig 3. Form Login

Add Admin Form

In this add admin form, if the user wants to add a new admin, just click the add button, then enter the name and password. For example, if the user selects “Add Admin”, an input form for new admin data will appear.

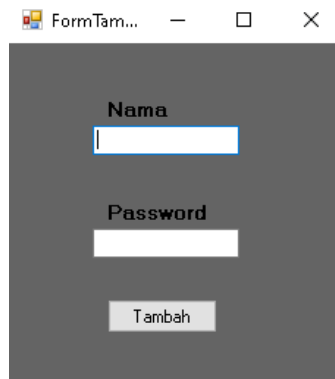


Fig 4. Form Login

Main Menu Form

In this main menu form, there is a main menu with several options such as master data, transactions, report data. Each menu option can open forms, both input, process, and output forms according to their functions. The following is a view of the main menu form.

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Fig 5. Main Menu Form

Data Master Form

In this master data form, there are two input, process, and output forms. Each menu can open its own form according to its function.



Fig 6. Data Master Form

Items Form

In this item data form, based on the search facility based on item code and item name, users can quickly find the items needed without having to go through the entire list of items, increasing efficiency in managing item data at Faiza Houseware & Furniture Store.

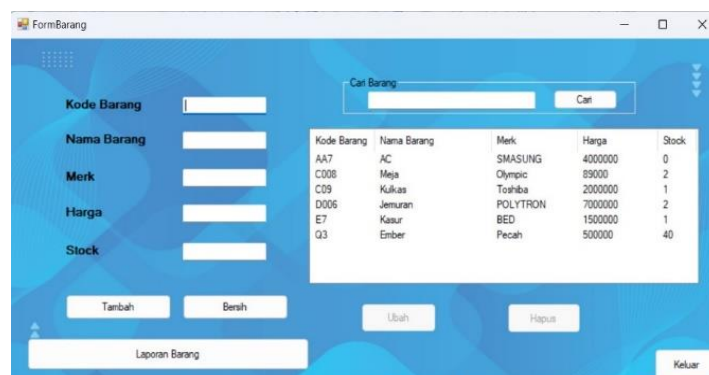


Fig 7. Items Form

Customer Form

In this customer data menu, based on the search facility based on customer code and customer name, users can quickly find the items needed without having to go through the entire list of items, increasing efficiency in managing customer data at Faiza Houseware & Furniture Store.

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The screenshot shows a web application window titled "FormPelanggan". On the left, there are input fields for "Kode Pelanggan", "Nama Pelanggan", "Alamat", and "Nomor Telepon". Below these are buttons for "Tambah", "Bersih", and "Laporan Pelanggan". On the right, there is a "Cari Barang" search bar with a "Cari" button. Below the search bar is a table with the following data:

Kode Pelanggan	Nama Pelanggan	Alamat	Nomor Telepon
F9	liki	J. Birgen Katamso	0834958736
G7	papo	J. medan	0897675678
K5	sis	J. medan	0834567456
K5	landi	J. Johor	0898558678
R4	Dendi	J. Medan	0867384728

Below the table are buttons for "Ubah" and "Hapus". At the bottom right is a "Keluar" button.

Fig 8. Customer Form

Sales Transaction Form

In this sales transaction form, with the search feature and action buttons, and the ability to calculate the total price automatically, the transaction form helps users to make transactions efficiently and accurately at Toko Faiza Houseware & Furniture.

The screenshot shows a web application window titled "FormPenjualan". It has several input fields: "No Faktur", "Tanggal Faktur" (with a date picker showing 5/17/2024), "Kode Pelanggan", "Kode Barang", "Jumlah Barang", "Total Harga", and "Bayar". There are buttons for "Hitung", "Ubah", "Bersih", "Hapus", "Tambah", and "Cetak Faktur". A "Cari Barang" search bar with a "Cari" button is also present. Below these is a table with columns: "No Faktur", "Tanggal Faktur", "Kode Pelanggan", "Kode Barang", "Jumlah B.", "Total H.", "Bayar", and "Kembali...". At the bottom are buttons for "Laporan Transaksi" and "Keluar".

Fig 9. Sales Transaction Form

Report Form

In the report form, users can select the desired type of report such as reports on admin data, goods, customers, or reports based on daily, monthly, or annual periods. After selecting the type of report, the system will display the report output according to the user's request.

The screenshot shows a web application window titled "FormLaporan". It features a grid of buttons for report categories: "Data Admin", "Data Barang", "Data Pelanggan", and "Data transaksi". Below this grid is the title "Laporan Penjualan" and three buttons for time periods: "Perhari", "Perbulan", and "Pertahun".

Fig 10. Report

Item Data Report

The image below is a view of the goods data report that has been previously designed in Crystal Report. In this item data report, users can see all item data available at the Faiza Houseware & Furniture Store.

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Laporan Data Barang

Kode_Barang	Nama_Barang	Merek	Harga	Stock
C09	Kulkas	Toshiba	2000000	1
C008	Kasur Tilam Lipat	Basic Kort	1500000	43
AA7	AC	SMASUNG	4000000	0
D006	Jemuran	POLYTRON	7000000	3
E7	Kasur	BED	1500000	5
Q3	Ember	Pecah	500000	40
COO1	Leman Plastik	V-BaABY CARE	300000	21
C003	Rak Sepatu	ANTBOX	450000	29
C004	Kursi	Plastik RFM	35000	20
C006	Springbed	Belverder Deluxe	1500000	23
C015	Mesa Kerja	MeryL Luria	5500000	35
C021	Tong Sampah	SEVENTEEN	200000	40
C022	Piring	LOTTOL	8000	60
C023	SAPU	NAGATA	35000	35
C024	PEL	GM Bear	45000	30
C025	Kursi Anak	DGK ALL STUFF	65000	14

Fig 11. Item Data Report

Customer Data Report

The picture below is a display of item data that has been previously designed in Crystal Report. In this customer data report, users can see all customer data that has placed orders or purchased goods at Toko Faiza Houseware & Furniture.

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Laporan Pelanggan

Kode_Pelanggan	Nama_Pelanggan	Alamat	No_Telp
F9	fikri	Jl. Brigen Katamso	0834958736
G7	paajo	Jl.medan	0897675678
K8	fandi	Jl.Johor	0898858678
K6	Aris	Jl.medan	0834567456
R4	Dendi	Jl.Medsen	0867384728
F1	Hiranya	Amplas	08124321667
F2	ismayono	ampas	081267345596
F3	janadi	ampas	082314536735
F4	Nagata	Amplas	081278346672
F5	purwadi	Jl.garut	08129479382
F6	prabawa	Jl.sakti lubis	tbl_pelanggan.Alat (String)
F7	Pandita	Jl.sisimangaraja	08225374929
F8	Susena	Jl.Sakti Lubis	088230675634
F10	julaiha	Jl.sakti lubis	081245452323
F11	Siska	Jl.sisimangaraja	083545342366

Fig 12. Customer Data Report

Sales Invoice

The picture below is a display of item data that has been previously designed in Crystal Report. In this sales invoice report, users can see all sales data at Toko Faiza Houseware & Furniture.

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No_Faktur	Tanggal_Faktur	Kode_Pelanggan	Kode_Barang	Jumlah_Barang	Total_Harga	Bayar	Kembalian
F001	5/17/2024	F1	C003	1	Rp 450.000	Rp 500.000	Rp 50.000
F003	5/11/2024	K8	C021	5	Rp 1.000.000	Rp 3.000.000	Rp 2.000.000
F004	5/14/2024	F5	C025	1	Rp 65.000	Rp 65.000	Rp 0
F005	5/17/2024	F3	C003	1	Rp 450.000	Rp 500.000	Rp 50.000
F006	5/27/2024	F10	C023	1	Rp 35.000	Rp 50.000	Rp 15.000
F007	5/27/2024	F5	C015	1	Rp 550.000	Rp 600.000	Rp 50.000
F008	5/17/2024	G7	C004	2	Rp 70.000	Rp 100.000	Rp 30.000
6	5/7/2024	K8	D006	2	Rp 14.000.000	Rp 757.885	Rp 57.878
1	5/22/2024	F9	AA7	1	Rp 4.000.000	Rp 5.000.000	Rp 1.000.000
3	5/12/2024	K6	Q3	4	Rp 2.000.000	Rp 10.000.000	Rp 8.000.000
4	5/17/2024	R4	D006	1	Rp 7.000.000	Rp 8.578.578	Rp 7.685.587
7	5/22/2024	R4	E7	3	Rp 4.500.000	Rp 7.585.785	Rp 58.788
11	2/24/2023	K6	C008	2	Rp 178.000	Rp 58.778	Rp 7.585

Fig 13. Sales Invoice

5. DISCUSSIONS

Based on the research data collection techniques that have been carried out using the observation, interview, and literature study stages, it is known that in an effort to overcome problems in processing furniture sales data at Toko Faiza Houseware & Furniture the author proposes a desktop-based sales information system. The main purpose of this proposed desktop-based sales information system is to reduce time and errors in sales data processing, increase the accuracy of sales data processing, and present realtime reports that allow users to immediately see work results and uptodate sales reports. login form, add admin form, main menu form, master data form, item form, customer form, sales transaction form, and report form. The process of developing a desktop-based sales information system at Toko Faiza Houseware & Furniture in this study was carried out using the Visual Basic .Net programming language. The desktop-based sales information system at the Faiza Houseware & Furniture Store produced in this study can be operated online on a computer or laptop device supported by the Windows operating system.

6. CONCLUSION

The conclusions that the author can attach from the results of this study, namely the furniture sales data processing procedure at the faiza houseware & furniture Medan store is currently still using a conventional system so that it needs to be developed by implementing a computer-based system so that it can prevent problems that occur when processing sales data, desktop-based furniture sales information systems designed in this study can be easily understood by users in processing sales data, desktop-based furniture sales information systems built using the visual basic .net programming language in this study can be operated offline on a computer or laptop device to make it easier for the faiza houseware & furniture store to process sales data.

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