

Web-Based Information System Of Sales And Purchase Of Msme Products In The Sidorejo Hilir Village Office

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ABSTRACT

In Sidorejo Hilir Village, there is an outlet that sells MSME food and beverage products which are managed by the lurah office staff, in the process of recording sales, purchases and stock of goods is still done manually or written into a book, which often results in incorrect recording of inventory. as well as sales and purchase reports. The method used is observation, interviews and literature methods to complete the data needed in compiling the Final Project. For this reason, a sales and purchasing information system is needed that can assist staff in recording sales reports and inventory reports, so that they are faster, more efficient and effective.

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INTRODUCTION

One of the greatest needs for information technology today is the need for information systems. The rapid development of information technology and information systems has made almost all aspects of life unavoidable from the use of technology, especially the use of computers. The ever-developing information technology encourages people to create new innovations that are more efficient and effective. Information that used to take a long time to obtain is now within seconds that information is acceptable to humans and it is an obligation for companies to provide this information so that it is more quickly and easily accepted by consumers.

In the era of globalization that is developing throughout the world, the internet is a technology that has a very broad scope. Where the internet is connected online without knowing the time and place boundaries. Companies will get benefits and convenience when companies use the internet in their information systems such that customers find it easier to get the information they need. One of the most important company activities is to achieve sales activity, where sales are the most important role and the spearhead of the company itself. The main sales objective is large and continuous sales volume which of course determines the sustainability of the company and earns profits and returns on investment that has been invested.

Current technological developments can be used to provide solutions to problems in various fields. One of them is in the field of trade, both in the process of buying goods and selling goods. In an MSME or Micro, Small and Medium Enterprises, many sales records still use manual written notes, some even don't use notes at all.

At the Sidorejo Hilir Village Office, Medan Tembung District, Medan City, there is an outlet that sells MSME products under the auspices of the UP2K PKK which is one of the MSME outlets that sells goods covering daily human needs. Sales and purchasing information systems at outlets currently still use a manual recording system and do not yet use a computer system. Transaction management, also still uses a manual system. The seller will enter or record sales, purchases and stock items into one book which can take a lot of time and effort. Especially in recording the stock of goods, the seller must first calculate all the remaining items and then write them into the stock record book.

METHODS

Data collection techniques in collecting information about the object of this research, namely:

1. Observation Method

By making direct observations to the field in order to obtain the required data.

2. Interview

The data taken directly on the object of the problem related to this research is through interviews (interview) is a data collection technique by face to face between data collectors and informants. Interviews were conducted directly by providing a list of questions that had been prepared.

3. Literature review

In addition to direct observation and interviews, researchers also collect data by reading written sources contained in reference books or research in accordance with the theme of this research.

RESULTS AND DISCUSSION

Analysis of the ongoing system aims to find out more clearly how the system works and the problems faced by the system so that it can be used as a basis for the proposed analysis of the ongoing system analysis which is carried out based on the sequence of events that exist and from the sequence of events a document flow chart can be made. Folder).

Analysis of the system that is currently running at the Sidorejo Hilir Sub-District Office Outlet is carried out to find out what information is in the processing of data on sales, purchases and supply of goods to the reports that are generated.

To find out the advantages and disadvantages of the system, it is necessary to know how the system is currently running at the Sidorejo Hilir Village Office. The system that is currently running at the Sidorejo Hilir Village Office still uses a manual recording system so it is not effective and efficient.

Context Diagram

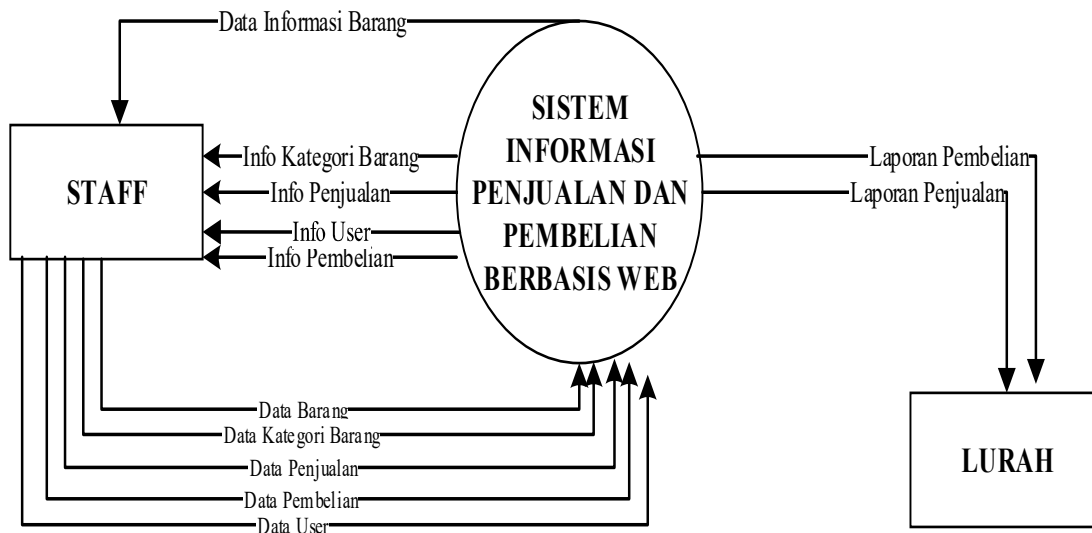


Figure 1. Context Diagram

DFD Level 0

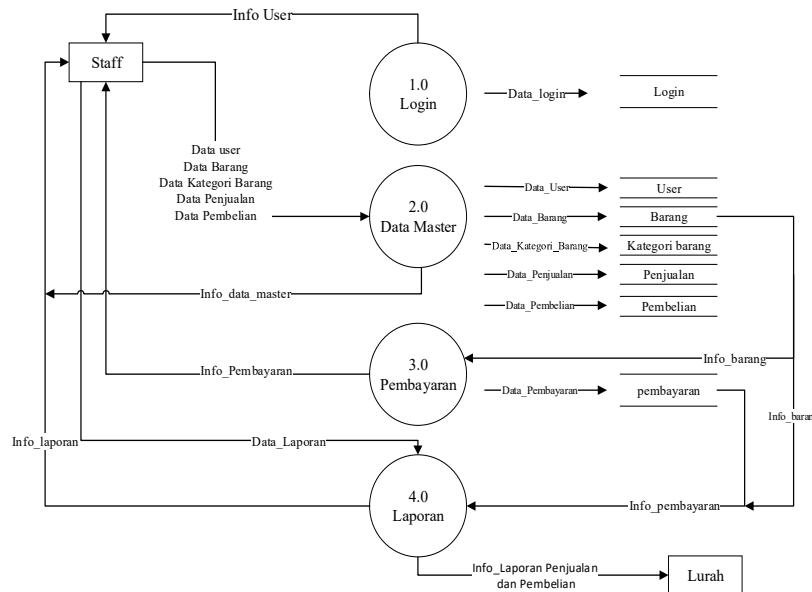


Figure 2 Data Flow Diagrams

ERD

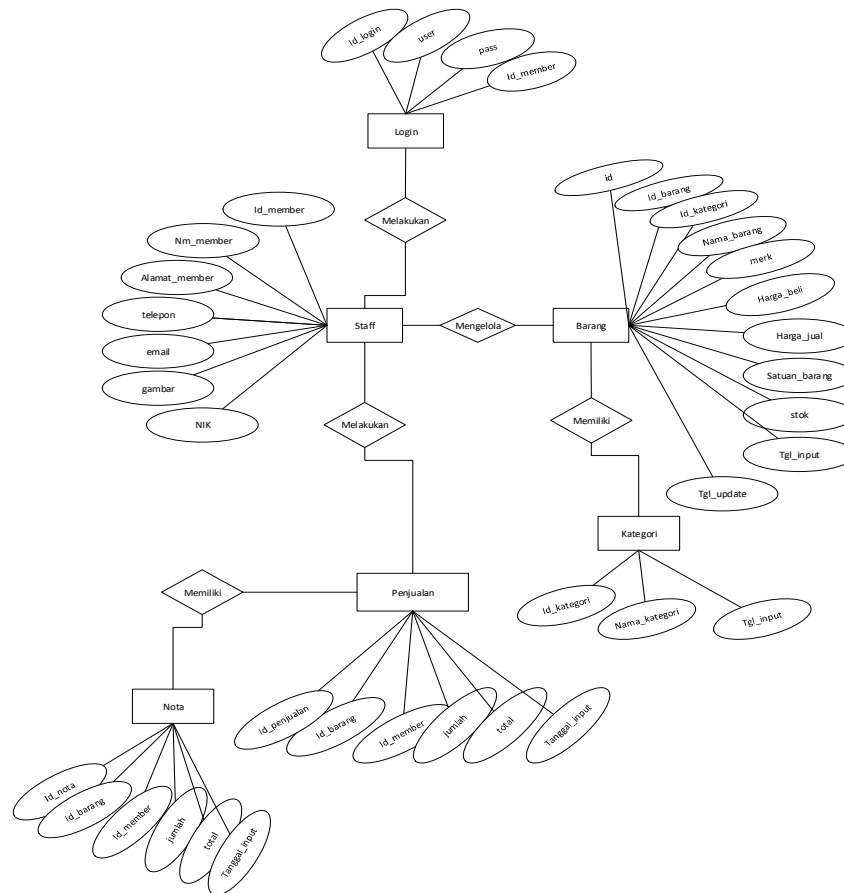
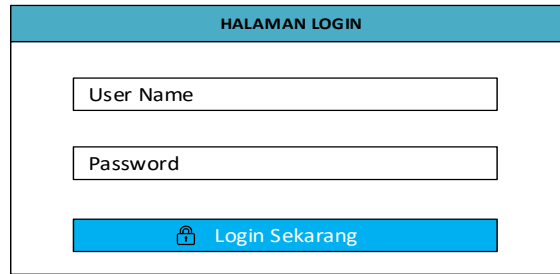


Figure 3 Entity Relationship Diagram

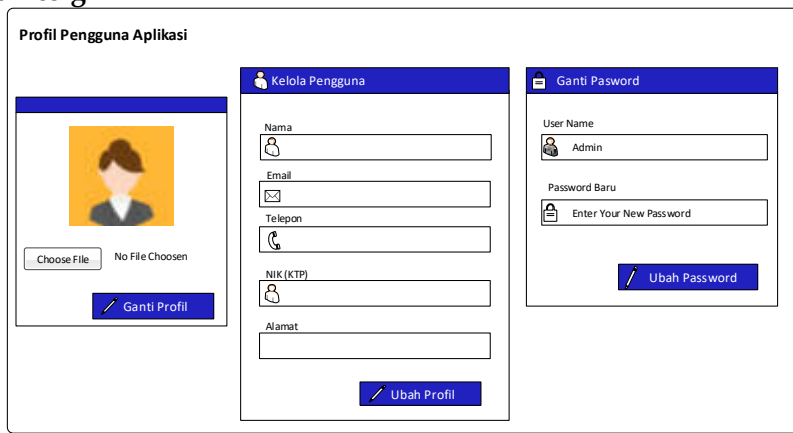
Login Form Design



The login form is titled "HALAMAN LOGIN" in a blue header. It contains three main components: a text input field for "User Name", a text input field for "Password", and a blue button with a lock icon and the text "Login Sekarang".

Figure 4. Login Form

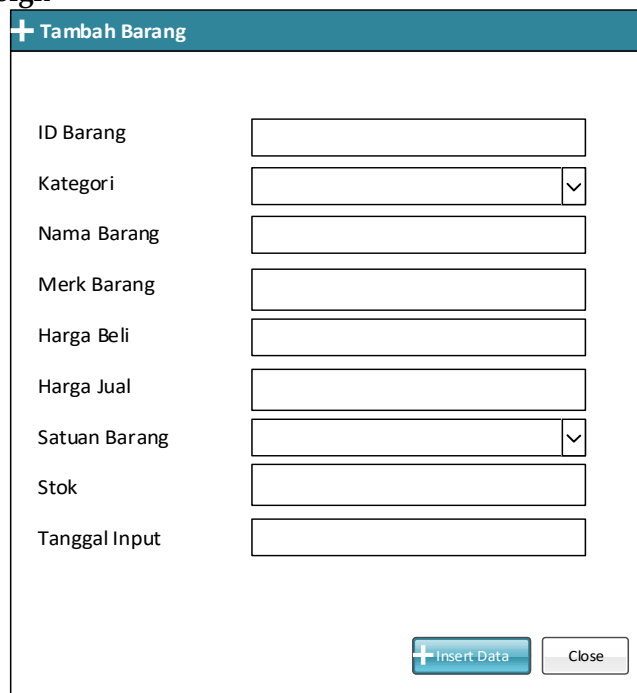
User Data Input Design



The user data input design is titled "Profil Pengguna Aplikasi" and is divided into three sections. The left section shows a profile picture placeholder with a "Choose File" button and "No File Chosen" text, along with a "Ganti Profil" button. The middle section, titled "Kelola Pengguna", includes input fields for "Nama", "Email", "Telepon", "NIK (KTP)", and "Alamat", with a "Ubah Profil" button at the bottom. The right section, titled "Ganti Pasword", includes input fields for "User Name" (pre-filled with "Admin"), "Password Baru", and "Enter Your New Password", with a "Ubah Pasword" button at the bottom.

Figure 5 Main Menu Design

Goods Data Input Design



The goods data input form is titled "+ Tambah Barang" in a blue header. It contains several input fields: "ID Barang", "Kategori" (a dropdown menu), "Nama Barang", "Merk Barang", "Harga Beli", "Harga Jual", "Satuan Barang" (a dropdown menu), "Stok", and "Tanggal Input". At the bottom right, there are two buttons: "+ Insert Data" and "Close".

Figure 6. Goods Data Input Form

Output Design

Data Laporan Penjualan Agustus 2022

Cari Laporan Perbulan:

Pilih Bulan:
 Pilih Tahun:
 Aksi:

Pilih Hari:
 Aksi:

Show: Entries Search:

No	ID Barang	Nama Barang	Jumlah	Modal	Total	Kasir	Tanggal Input
1	BR001	Air Meneral	2	Rp 6.000	Rp 10.000	Elma Sari	30 July 2022
2	BR001	Coffe	1	Rp 3.000	Rp 4.000	Elma Sari	30 July 2022
3	BR001	Materai	3	Rp 30.000	Rp 39.000	Elma Sari	30 July 2022
Total Terjual			6	Rp 39.000	Rp 53.000	Keuntungan	Rp 14.000

Showing 1 to 3 of 3 entries

Figure 7 Sales Report Form

CONCLUSION

In processing sales transactions, purchases and inventory of goods in the Sidorejo Hilir Village Office, they still use a manual recording system. So that the results are not accurate and efficient with the design of this information system it will make it easier for sellers to manage sales and purchase transactions, sales reports, purchase reports and inventory reports.

The web-based information system for sales and purchases of MSMEs products at the Sidorejo Hilir Village Office was designed or built using the PHP programming language, MySQL database and CSS.

With the existence of a sales and purchase information system, currently sales and purchase data processing has been computerized automatically, so as to simplify and speed up the management of goods data, sales of goods, and sales reports.

REFERENCE

- G. Farell, H. K. Saputra, and I. Novid, "Rancang Bangun Sistem Informasi Pengarsipan Surat Menyurat (Studi Kasus Fakultas Teknik Unp)," J. Teknol. Inf. dan Pendidik., vol. 11, no. 2, pp. 56-62, 2018.
- J. Hutahaean, Konsep Sistem Informasi, vol. 3. 2017.
- M. K. Rohmat Taufiq ST., Sistem Informasi Manajemen: Konsep Dasar, Analisis dan Metode Pengembangan, vol. 1. 2013.
- Y. Heriyanto, "Perancangan Sistem Informasi Rental Mobil Berbasis Web Pada PT.APM Rent Car," J. Intra-Tech, vol. 2, no. 2, pp. 64-77, 2018.

- R. Inggi, Y. Prayudi, and B. Sugiantoro, "Penerapan System Development Life Cycle (Sdlc) Dalam Mengembangkan Framework Audio Forensik," *semanTIK*, vol. 4, no. 2, pp. 193–200, 2018.
- A. N. Nurhayati, A. Josi, and N. A. Hutagalung, "Penjualan," *J. Teknol. dan Inf.*, vol. 7, no. 2, pp. 13–23, 2018.
- Yuli Rahmini Suci, "Usaha Mikro, Kecil dan Menengah," *UU No. 20 Tahun 2008*, no. 1, pp. 1–31, 2008.
- E. A. Jaya, "Perancangan Sistem Informasi Persediaan Stock Parfum Dengan Menggunakan Bahasa Pemrograman Visual Basic.Net Dan Database Access Pada Toko Gofha Perfume," *J. Sains dan Teknol. J. Keilmuan dan Apl. Teknol. Ind.*, vol. 16, no. 2, p. 158, 2016, doi: 10.36275/stsp.v16i2.45.
- D. Sukrianto, "Penerapan Teknologi Barcode pada Pengolahan Data Pembayaran Sumbangan Pembinaan Pendidikan (SPP)," *Intra-Tech*, vol. 1, no. 2, pp. 18–27, 2017.
- Y. Anggraini, D. Pasha, and A. Damayanti Setiawan, "Sistem Informasi Penjualan Sepeda Berbasis Web Menggunakan Framework Codeigniter (Studi Kasus : Orbit Station)," *J. Teknol. dan Sist. Inf.*, vol. 1, no. 2, pp. 64–70, 2020.
- M. Abdurahman, "Sistem Informasi Data Pegawai Berbasis Web Pada Kementerian Kelautan Dan Perikanan Kota Ternate," *J. Ilm. Ilk. - Ilmu Komput. Inform.*, vol. 1, no. 2, pp. 70–78, 2018, doi: 10.47324/ilkominfo.v1i2.10.
- A. Mubarak, "Rancang Bangun Aplikasi Web Sekolah Menggunakan Uml (Unified Modeling Language) Dan Bahasa Pemrograman Php (Php Hypertext Preprocessor) Berorientasi Objek," *JIKO (Jurnal Inform. dan Komputer)*, vol. 2, no. 1, pp. 19–25, 2019, doi: 10.33387/jiko.v2i1.1052.