

Web-Based Sales Information System Design at Raffa Toys Store

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Abstrak – Raffa Toys merupakan salah satu Toko usaha mainan anak – anak yang ada di Siulak, Kabupaten Kerinci. Yang dimana proses pendataan transaksi dan pengolahan data masih digunakan dengan cara manual yaitu belum menggunakan sistem terkomputerisasi sehingga pencatatan masih dicatat menggunakan nota kemudian dipindahkan ke buku besar sehingga memakan waktu yang cukup lama dan cenderung kurang efektif. Dengan sistem ini sering terjadi permasalahan seperti kesalahan dalam perhitungan nota penjualan, rekap data penjualan untuk setiap bulannya yang membutuhkan waktu yang relatif lama. Karena itu penelitian ini bertujuan untuk membangun perancangan sistem informasi pengolahan data penjualan di Toko Raffa Toys, untuk memberikan kemudahan dalam pengolahan data penjualan dan transaksi yang lebih cepat dan tepat. Penelitian ini menghasilkan Sistem Informasi Pengolahan Data Penjualan yang bisa merekam informasi transaksi penjualan, cetak nota penjualan serta laporan yang sesuai dengan keperluan.

Kata Kunci: Perancangan, Sistem Informasi, Penjualan, Website, Toko Raffa Toys

Abstract – Raffa Toys is one of the children's toy business stores in Siulak, Kerinci Regency. Where the process of collecting transaction data and processing data is still used manually, namely not using a computerized system so that recording is still recorded using notes and then transferred to the ledger so that it takes a long time and tends to be less effective. With this system, there are often problems such as errors in the calculation of sales memos, recaps of sales data for each month which takes a relatively long time. Therefore, this study aims to build the design of a sales data processing information system in Raffa Toys, Kerinci Regency, to provide convenience in processing sales and transaction data faster and more precisely. This research produces a Sales Data Processing Information System that can record sales transaction information, print sales memos and reports that are in accordance with needs

Keywords: Design, Information System, Sales, Website, Toko Raffa Toys

1. Introduction

Technological developments have made significant progress. Technology becomes more sophisticated over time, and as users of technology, humans continually develop technologies to simplify and complete tasks according to their needs [1]

The application of information technology to children's toy sales, particularly in stores, can simplify data processing and optimize every decision made, particularly regarding purchasing and sales. Having a purchasing and sales information system in a children's toy store plays a crucial role in boosting the business's progress. [2].

Raffa Toy Store business located in Pasar Senen Siulak Village, Kerinci Regency is one of the Micro, Small and Medium Enterprises (MSMEs) in Kerinci. For the sales process is done offline, and the processing of purchase and sales data that still uses the help of books and sales notes so that there are several problems, namely: frequent problems occur in recording and calculating sales notes that cause differences in total sales, recaps and purchases or sales for each month which takes a relatively long time and often occurs errors in the calculation of the data and errors occur in recording incoming and outgoing goods data so that the stock data is less accurate information. This problem causes differences in transaction data at the Raffa Toys Toy Store so that an information system is needed that can provide convenience in providing information on stock of goods, purchases and sales at the Raffa Toys Store [3].

The system is capable of providing store product information to customers, making it easier for users to find new information about the latest products [4]. The system also provides sales information such as recording, processing, and integrating data, and serves as a structured data storage platform to improve the effectiveness and efficiency of performance and time [5].

The following related research is similar to the research conducted by the author: Sudaryono and Efana Rahwanto proposed an information system that includes key features to improve the efficiency of data management at PT. Inter Aneka Plasindo. This system allows admins to log in, monitor sales, and print reports,

while the finance division is responsible for reviewing financial reports and printing them. The warehouse division can monitor the availability of goods, while customers and managers interact through the ordering and data evaluation features. This system was designed using the PHP programming method with a MySQL database and Sublime Text, and implemented with an XAMPP connection to produce more effective reports and minimize errors[6]. Refiandi Virgianto and Dian Gustina designed a WDLC (Web Development Life Cycle)-based sales information system to overcome the constraints of manual systems, such as difficulties in managing sales data and recording item prices. This system provides a Customer Relationship Management (CRM) feature that helps admins manage customer data to support promotional strategies. With this system, admins can access reports in real-time, monitor customer data, and manage promotions in a more structured manner[7]. Winarti, Muhammad Ihsan, and Novita Wulandari developed a web-based sales information system for the UNIMUDA Sorong Campus Mart Store using the prototyping method. This system demonstrated increased sales efficiency and effectiveness with test results achieving a score of 3.6 or 91%. This system enables customer registration, selection and purchase of goods, and presentation of information quickly and accurately using PHP and MySQL-based technology [8]. Farhan Ramadhan and Nuraini Purwandari developed a web-based sales information system at PT. Mustika Jati using the Rapid Application Development (RAD) method. This system was designed to record, store, process, and integrate sales data, inventory, and customer data in a structured manner. Black box testing results showed that the system functioned as needed, supported decision-making, and improved the company's operational efficiency [9]. Dadan Zaliluddin and Rohmat designed a web-based sales information system for Newbiestore using the Waterfall method. This system aims to improve transaction efficiency and expand marketing reach. Features such as inventory management, ordering, and customer interaction enable Newbiestore to manage its business operations digitally, thereby increasing the company's competitiveness in the digital era [10].

Harapan ataupun tujuan yang ingin dicapai dalam penelitian ini yaitu : Menganalisis proses penjualan yang sedang berjalan di Toko Raffa Toys serta merancang sistem informasi penjualan menggunakan Framework Laravel dan DBMS MySQL.

2. Research Method

2.1 Research Stages

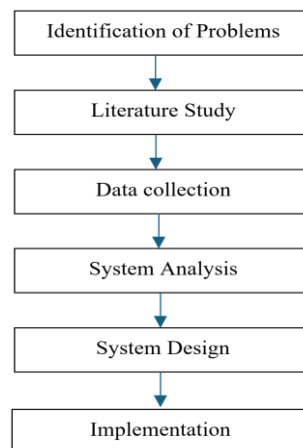


Figure 2.1 Research Framework [11]

1. Problem Identification: At this stage, the problem was identified through direct observation and interviews with the Raffa Toys Store and the necessary solutions were developed to address these issues by designing a sales information system.
2. Literature Study: At this stage, the author conducted a literature study, seeking information by reading and collecting data from various sources, books, journals, and internet sites related to the problem to be used as a basis for the research.
3. Data Collection: This study utilized three data collection methods: interviews, direct observation, and document analysis. Interviews were conducted with the owner of the Raffa Toys Store to obtain

information about the sales system. Several obstacles were identified, including errors in data recording and calculation, slow receipt retrieval, inventory discrepancies, and delays in reporting. Direct observation was conducted to understand the purchasing and sales process, which still relies on receipts, allowing for further analysis to determine the necessary solutions. Furthermore, document analysis was conducted by examining sales receipts and sales reports to support the design of a more effective sales information system.

4. **Systems Analyst:** In the systems analysis stage, the sales information system was designed to solve the problems encountered at the Raffa Toys Store. This included creating a new system design, including use case diagrams, activity diagrams, class diagrams, input design, output design, and data structures.
5. **System Design:** This stage employed the waterfall method for designing the sales information system at the Raffa Toys Store, as it offers a more systematic and effective application.
6. **Implementation:** This is the implementation stage for solving the problems encountered at the Raffa Toys Store..

2.2. System Design Methods

The system development method uses the waterfall model in the system design stage because its application is easy and systematic, with the following stages [12].

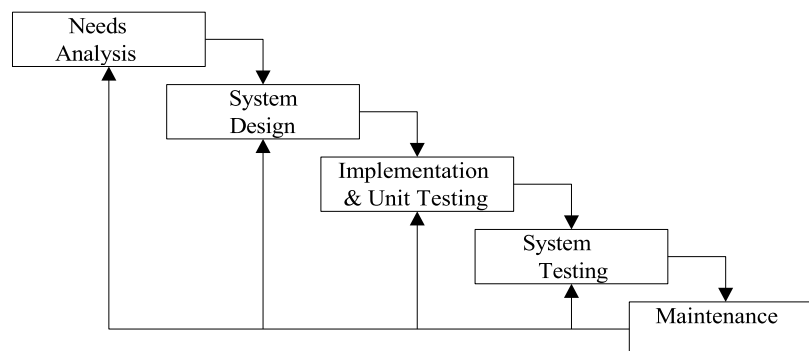


Figure 2.2 Waterfall Model [13]

1. **Needs analysis:** At this stage, the needs of what will be created are identified by analyzing the current system, the needs of the system to be designed and the solutions required
2. **System Design:** In this stage, data, interfaces, and system models are designed using use case diagrams, activity diagrams, and class diagrams. Meanwhile, the procedures for the running system are designed using flowchart documents and the data structure for the database is designed
3. **Implementation and Testing:** In this stage, the designed purchasing and sales information system is implemented using the Laravel framework with PHP programming and MySQL database management system
4. **System Testing:** In this stage, testing is conducted using white-box testing methods, where the author checks the existing PHP program codes, and black-box testing, where the author checks the application output and identifies any discrepancies or errors
5. **System Maintenance:** In this stage, software maintenance is performed, such as making improvements to the running system or adding additional functions according to the Raffa Toys Store's wishes

3. Result and Discussion

3.1 Analysis of the System Currently in Use

In sales and management of goods management at Raffa Toys has not been computerized where the calculation of sales managed by the owner is still done manually, namely by recording through notes and books to make sales reports. Raffa Toys has a condition of irregular goods shelf layout so that many goods overlap and mix with each other, as a result the store has difficulty when doing the stock calculation process because they have to search one by one and check each item.

3.2 Problem Solving Solutions

The development of a sales and inventory management system at Raffa Toys encompasses several key

features. This system can automatically calculate transactions by simply inputting the item name and then saving sales reports to a database. Furthermore, there's an inventory data management feature that allows owners to monitor stock and add items through a purchase form. The system also supports shelf management based on item type. Furthermore, the application provides reports that include item data, purchase forms, and sales reports to support the store's information needs..

3.3 Use Case Diagram

This use case diagram provides a simple visual representation so that users can easily read and understand the information presented [14]. Use cases are a way to document the functions and interactions between a system and users or other external actors [15]..

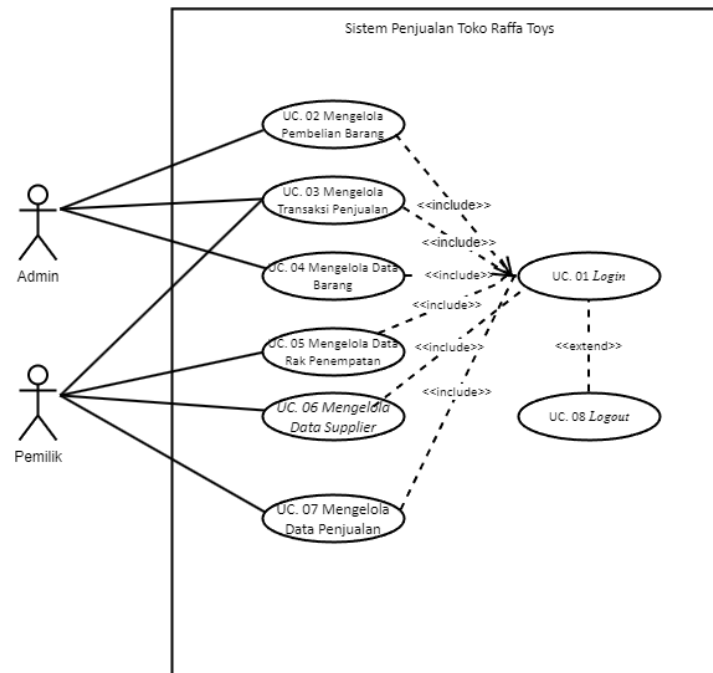


Figure 3.1 Use Case Diagram

3.4 Class Diagram

A class diagram is a visual representation that depicts the structure of a system by identifying the classes created to create the system and also showing how these classes interact, as well as showing the processes and operations involved in the system [16]. A class diagram illustrates the structure of a system by defining the classes that will be used in building the system. [17].

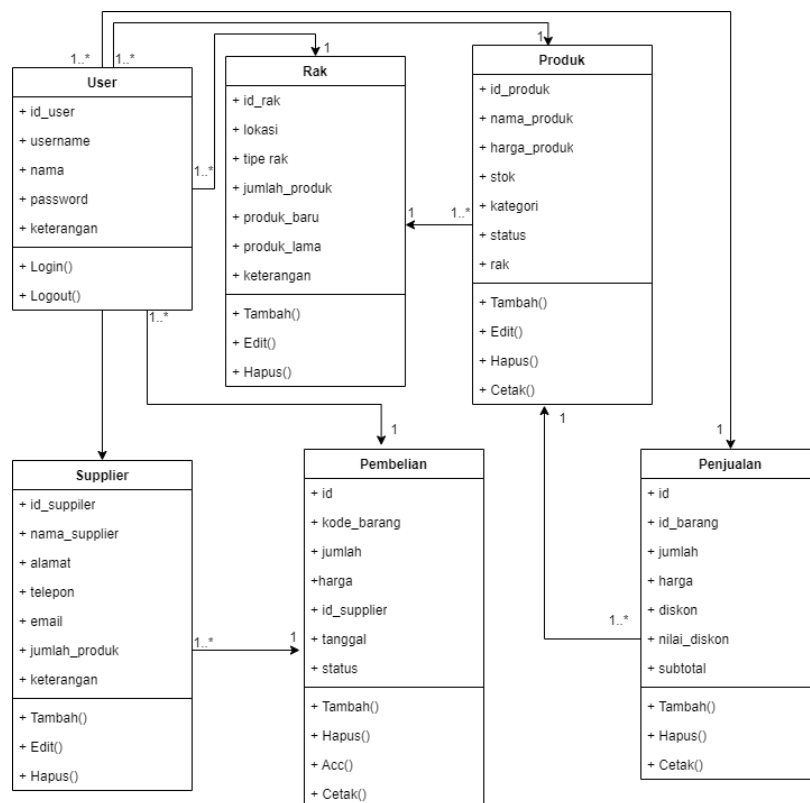


Figure 3.2 Class Diagram

3.5 Hasil Implementasi

The purpose of this section is to present the results of the input and output design implementation. To make the system-generated pages more attractive and engaging, this approach uses color or graphics on the display:

a. *Page Login*

shows the login page, which provides a form for logging into the system. This form includes fields for entering a username and password

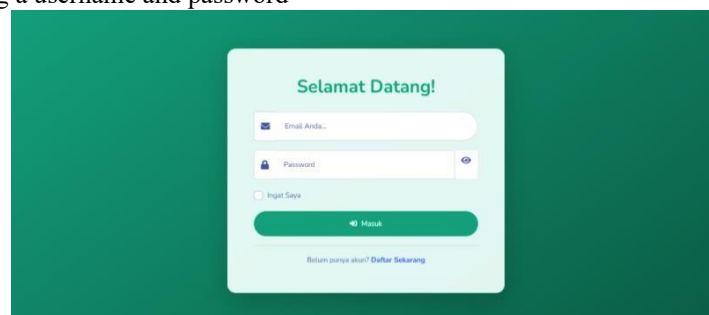


Figure 3.3 Page Login

b. *Tampilan Page Utama*

shows the Home Page view of the Web Sales Information System, which is designed as the main navigation and information center for users

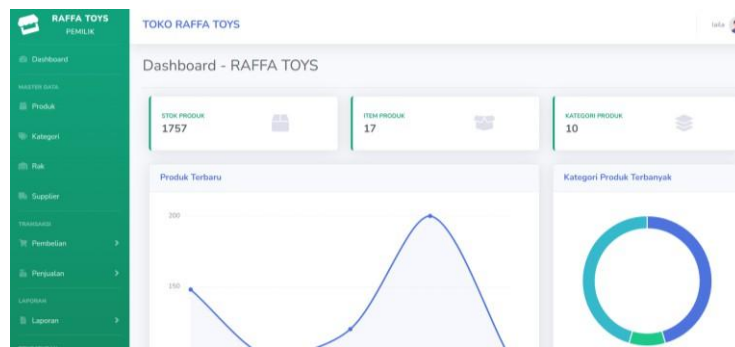


Figure 3.4 Main Page

c. Implementasi Page Produk

This page is designed to record, edit, and delete data about items sold in the system. Various types of items, such as electronics, clothing, food, and other categories, can be managed through this page.

No	Nama Produk	Harga	Stok	Kategori	Status	Rak	Aksi
1	Boneka Kecil	Rp 30.000	148	Mainan Anak Perempuan	Baru	Rak B	[Edit] [Hapus]
2	Pancing Sedang	Rp 35.000	100	Mainan	Lama	Rak A	[Edit] [Hapus]
3	Pancing Besar	Rp 45.000	120	Mainan	Lama	Rak A	[Edit] [Hapus]
4	Yoyo	Rp 22.000	200	Mainan	Lama	Rak A	[Edit] [Hapus]
5	Squisy Kecil	Rp 15.000	100	Mainan	Lama	Rak A	[Edit] [Hapus]
6	Souisv Sedana	Rp 18.000	80	Mainan	Lama	Rak A	[Edit] [Hapus]

Figure 3.5 Product Page

d. Tampilan Page daftar pembelian

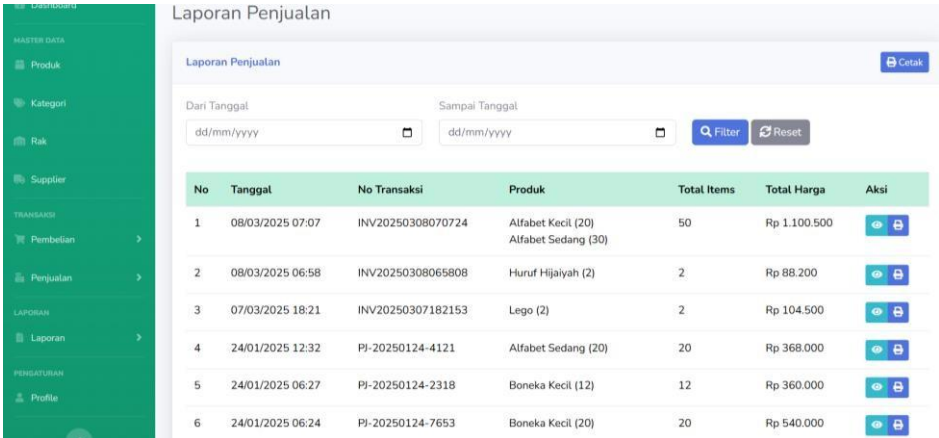
This page includes various information related to purchases, such as a list of purchased items, quantity of items, unit price, total price, supplier name, purchase date, and payment status.

No	Kode	Tanggal	Supplier	Total	Status	Aksi
1	PO-20250124-4976	24/01/2025	PT Yuyun	Rp 3.000.000	Selesai	[Edit]
2	PO-20250123-3201	23/01/2025	PT Sinar Emas	Rp 540.000	Selesai	[Edit]
3	PO-20250123-7545	23/01/2025	PT. Mainan Edukasi	Rp 575.000	Selesai	[Edit]
4	PO-20250123-4654	23/01/2025	PT Jaya	Rp 10.780.000	Selesai	[Edit]
5	PO-20250123-4794	23/01/2025	PT Sinar Emas	Rp 25.050.000	Selesai	[Edit]
6	PO-20250123-7250	23/01/2025	PT. Mainan Edukasi	Rp 5.380.000	Selesai	[Edit]
7	PO-20250123-4493	23/01/2025	PT. Mainan Edukasi	Rp 1.700.000	Selesai	[Edit]

Figure 3.6 Purchase List Page

e. Implementasi Page laporan penjualan

This page includes various important information, such as the transaction number, sale date, items sold, quantity, total price, payment method, discounts received, and payment status. It also features a date filter feature to facilitate sales data analysis.



Laporan Penjualan

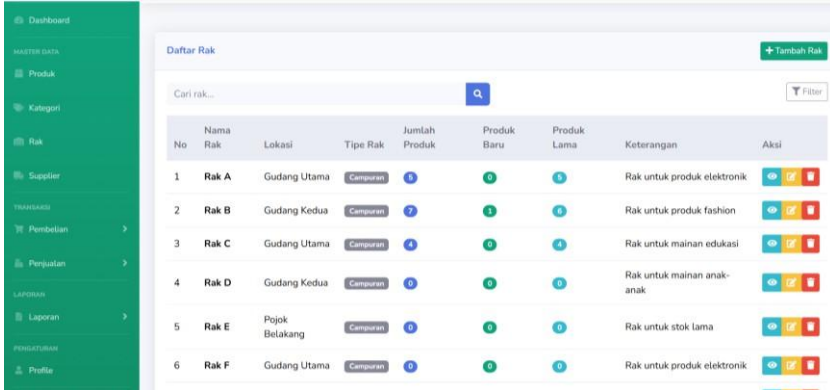
Dari Tanggal: dd/mm/yyyy Sampai Tanggal: dd/mm/yyyy [Filter] [Reset]

No	Tanggal	No Transaksi	Produk	Total Items	Total Harga	Aksi
1	08/03/2025 07:07	INV20250308070724	Alfabet Kecil (20) Alfabet Sedang (30)	50	Rp 1.100.500	[Edit] [Hapus]
2	08/03/2025 06:58	INV20250308065808	Huruf Hijaiah (2)	2	Rp 88.200	[Edit] [Hapus]
3	07/03/2025 18:21	INV20250307182153	Lego (2)	2	Rp 104.500	[Edit] [Hapus]
4	24/01/2025 12:32	PJ-20250124-4121	Alfabet Sedang (20)	20	Rp 368.000	[Edit] [Hapus]
5	24/01/2025 06:27	PJ-20250124-2318	Boneka Kecil (12)	12	Rp 360.000	[Edit] [Hapus]
6	24/01/2025 06:24	PJ-20250124-7653	Boneka Kecil (20)	20	Rp 540.000	[Edit] [Hapus]

Figure 3.7 Sales Report Page

f. Sales Report Page

This page displays the Shelf Page, which is used to record and manage Shelf Item data in a web-based sales system. This page includes various important information, such as item name, location, shelf type, product quantity, new products, old products, and description.



Daftar Rak

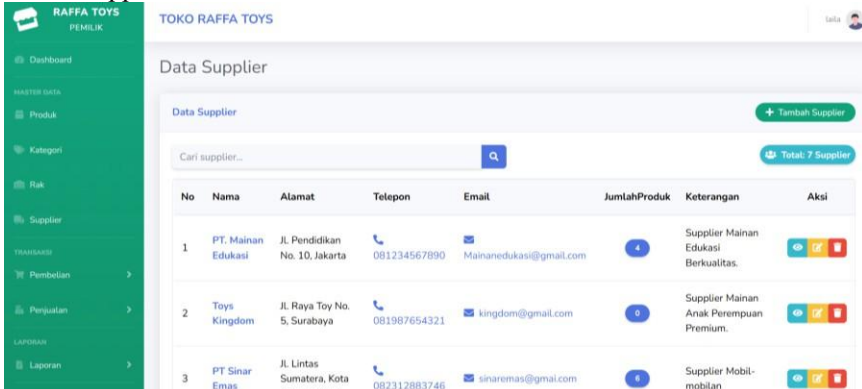
Cari rak... [Filter]

No	Nama Rak	Lokasi	Tipe Rak	Jumlah Produk	Produk Baru	Produk Lama	Keterangan	Aksi
1	Rak A	Gudang Utama	Campuran	6	0	6	Rak untuk produk elektronik	[Edit] [Hapus]
2	Rak B	Gudang Kedua	Campuran	7	1	6	Rak untuk produk fashion	[Edit] [Hapus]
3	Rak C	Gudang Utama	Campuran	4	0	4	Rak untuk mainan edukasi	[Edit] [Hapus]
4	Rak D	Gudang Kedua	Campuran	0	0	0	Rak untuk mainan anak-anak	[Edit] [Hapus]
5	Rak E	Pojok Belakang	Campuran	0	0	0	Rak untuk stok lama	[Edit] [Hapus]
6	Rak F	Gudang Utama	Campuran	0	0	0	Rak untuk produk elektronik	[Edit] [Hapus]

Figure 3.8 shelf page view

g. Page supplier view

This page displays the Supplier Page, which is used to manage supplier data in a web-based sales system. This page includes various important information about the supplier, such as the supplier's name, address, telephone number, email address, product quantity, and the product category obtained from the supplier.



TOKO RAFFA TOYS

Data Supplier

Cari supplier... [Filter] Total: 7 Supplier

No	Nama	Alamat	Telepon	Email	JumlahProduk	Keterangan	Aksi
1	PT. Mainan Edukasi	Jl. Pendidikan No. 10, Jakarta	081234567890	Mainanedukasi@gmail.com	4	Supplier Mainan Edukasi Berkualitas.	[Edit] [Hapus]
2	Toys Kingdom	Jl. Raya Toy No. 5, Surabaya	081987654321	kingdom@gmail.com	0	Supplier Mainan Anak Perempuan Premium.	[Edit] [Hapus]
3	PT Sinar Emas	Jl. Lintas Sumatera, Kota Sumatra Penuh	082312883746	sinaremas@gmail.com	6	Supplier Mobil-mobilan	[Edit] [Hapus]

Figure 3.9 supplier Page

h. form sales view

This page includes various important information, such as a list of items sold, quantity of items, unit price, total price, discount, payment amount, and date of sale.

Figure 3.10. Sales Form

- i. Display of sales results page
This page includes various important information, such as item code, sale date, discount given, total sales, quantity and return sales.

No	Kode	Tanggal	Diskon	Total	Bayar	Kembalian	Aksi
1	INV20250308070724	08/03/2025	Rp 29500	Rp 1.100.500	Rp 1.200.000	Rp 99.500	
2	INV20250308065808	08/03/2025	Rp 1800	Rp 88.200	Rp 100.000	Rp 11.800	
3	INV20250307182153	07/03/2025	Rp 5500	Rp 104.500	Rp 150.000	Rp 45.500	
4	PI-20250124-4121	24/01/2025	Rp 92000	Rp 368.000	Rp 400.000	Rp 32.000	
5	PI-20250124-2318	24/01/2025	Rp 0	Rp 360.000	Rp 400.000	Rp 40.000	
6	PI-20250124-7653	24/01/2025	Rp 60000	Rp 540.000	Rp 550.000	Rp 10.000	

Figure 3.10. Sales Report Page

- j. Sales Note Print Results Page
This page includes detailed information about sales transactions, such as transaction date, list of purchased items, quantity of items, unit price, total price, discounts. The design of this page is designed to be easy to read and professional, with a structured format for both physical and digital document printing needs.

TOKO RAFFA TOYS
Jl. Contoh No. 123, Kota
Telp: (021) 1234567

No. Transaksi : INV20250308070724
Tanggal : 08/03/2025 07:07
Kasir : Admin

Produk	Harga	Qty	Subtotal
Alfabet Kecil	22.000	20	440.000
	Diskon (2.0%)		-8.800
Alfabet Sedang	23.000	30	690.000
	Diskon (3.0%)		-20.700
Total Item		50	
Total Diskon		29.500	
Total		1.100.500	
Tunai		1.200.000	
Kembali		99.500	

Terima Kasih Atas Kunjungan Anda
Barang yang sudah dibeli tidak dapat dikembalikan

Figure 3.11 Sales Note Print Results Page

- k. Sales Report Print Results Page
The Sales Report Printout displays detailed information about all items recorded in the system. This report includes data such as the sale date, transaction number, product name, quantity sold, and total sales.

TOKO RAFFA TOYS					
Laporan Penjualan					
Periode: 01/02/2025 s/d 10/03/2025					
No	Tanggal	No Transaksi	Produk	Items	Total
1	08/03/2025 07:07	INV20250308070724	• Alfabet Kecil (20) • Alfabet Sedang (30)	50	Rp 1.100.500
2	08/03/2025 06:58	INV20250308065808	• Huruf Hijaiah (2)	2	Rp 88.200
3	07/03/2025 18:21	INV20250307182153	• Lego (2)	2	Rp 104.500
Total:				54	Rp 1.293.200

Dicetak pada: 10/03/2025 09:11:56

Figure 3.12 Sales Report Print Results Page

1. Printed Page of Purchase Form

This report is designed to provide detailed information regarding purchasing transactions, such as supplier name, list of purchased items, quantity of items, unit price, total price, purchase date, and additional information..

TOKO Rafa Toys						
Laporan Pembelian						
Periode: 01/03/2025 s/d 10/03/2025						
No	Tanggal	No Transaksi	Supplier	Items	Total	Status
1	10/03/2025	PO-20250310-4296	PT Jaya	Pancing Besar (20) Squasy Kecil (30)	Rp 890.000	
2	10/03/2025	PO-20250310-3077	PT. Mainan Edukasi	Mobil-Mobilan (80) Alfabet Sedang (12) Huruf Hijaiah (10)	Rp 1.486.000	
Total:				152	Rp 2.376.000	

Dicetak pada: 10/03/2025 09:16:58

Figure 3.13 Printed Page of Purchase Form

The test results showed that the system functioned as expected. The login and logout functions successfully validated users and managed sessions. User data management, including insertion, update, and deletion, ran smoothly with proper validation. The system was also able to store and update item and sales data seamlessly, ensuring complete and valid input. Furthermore, the report printing function for specific time periods worked smoothly without any issues. Overall, the system met the specifications and success criteria in each test scenario..

4. Conclusion

The conclusion of this study is After conducting research and analysis of the Raffa Toys Store web sales information system, it was found that the running administration system still uses books, which causes various weaknesses, such as data discrepancies between payments and stock items and the process of making monthly reports that take a long time. To overcome these problems, a sales data processing information system was designed using the Laravel framework with the PHP programming language and MySQL DBMS, which is able to speed up and improve the accuracy of information. This system includes computerized processing of category data, items, sales transactions, sales data, expenses, reports, and user data, so that it can be added, changed, and deleted as needed.

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