

DESIGN AND IMPLEMENTATION OF A PETTY CASH MANAGEMENT SYSTEM BASED ON C.NET AT PT MADANI SEHAT FARMA TASIKMALAYA CITY

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Abstract. Petty cash is a sum of cash allocated by a company to cover routine operational needs of a relatively small value and of an urgent nature. These expenses usually include the purchase of stationery, local transportation costs, meeting consumption, and other unexpected expenses that do not require formal payment procedures. This research uses a descriptive approach. In system development, the method applied is Rapid Application Development, with the support of analysis tools in the form of Flowmaps, Context Diagrams, Data Flow Diagrams, and Entity Relationship Diagrams. The system design was created using Microsoft Visual Studio 2008, the C# (C-Sharp) programming language, and a Microsoft Office Access database. The results of this study indicate that the petty cash management system at PT Madani Sehat Farma Tasikmalaya City is still done manually, namely all transactions are recorded using cash books and excel recapitulations that are not integrated. The proposed information system using Microsoft Visual Studio and the C# programming language created by the author has been proven to help facilitate the petty cash management process at PT Madani Sehat Farma Tasikmalaya City.

Keywords: system; research results; petty cash.

1. Introduction

The advancement of information technology has brought significant changes to various sectors of life, including the world of business and financial management. In the current digital era, the use of technology is not only an aid but has become an essential need for organizations and companies to remain competitive and efficient. One implementation of information technology in the business world is the accounting information system (AIS).

According to Marina et al (in Setyanto et al, 2021:15) an Accounting Information System is defined as a network that includes all procedures, forms, recordings, and devices used to process financial data into reports.

In the context of company financial management, one important aspect that is often considered trivial but is very crucial is petty cash management. Petty cash is a sum of cash allocated by a company to cover routine operational needs of a relatively small value, which is considered less practical if done through checks or giro. (Hery, 2020:51).

The main function of petty cash is to support the smooth operation of the company without disrupting the main administrative procedures. However, in some companies, petty cash management is still carried out manually, which is very vulnerable to recording errors. Recording activities still use simple notebooks or excel files and are not integrated with other information systems. This causes data duplication, loss of transaction evidence, and difficulty in real-time transaction tracking. In the long term, this can negatively impact the accountability and transparency of the company's financial reports.

This problem was also found at PT Madani Sehat Farma Tasikmalaya City, the company where the author underwent fieldwork practice as part of the final project for the study program. PT Madani Sehat Farma is a company that focuses on drug distribution

activities. Although it has developed operationally, the petty cash management system used is still manual. All transactions are recorded using cash books and excel recapitulations that are not integrated.

Observations show that petty cash management at PT Madani Sehat Farma Tasikmalaya City still has several problems, including:

1. Non-real-time recording, making it difficult to monitor the petty cash balance.
2. High potential for recording errors due to human limitations (human error).
3. Delays in reporting to the central finance department.
4. The absence of digital transaction evidence makes audits difficult.
5. Weak supervision due to the absence of a system that can provide automatic notification when transactions are made.

It is important for PT Madani Sehat Farma to start switching to a computer-based petty cash management system that is integrated with the accounting information system. For this reason, the author took the initiative to design and implement a petty cash management system that can help the company solve these problems.

This information system will also be built using the C# programming language with a Microsoft Access database. The form of petty cash management applied is the fluctuation method, where all petty cash transactions will be recorded automatically, and the petty cash balance will be updated every time a transaction occurs. With this system, the company can know the petty cash position in real-time, print reports whenever needed, and store transaction evidence in digital form. Considering the background explained, the author prepared a final project titled Design and Implementation of Petty Cash Management System Based on C#.NET at PT Madani Sehat Farma Tasikmalaya City. This research not only aims to complete an academic final project but also to provide concrete solutions that can be implemented by the company to increase the efficiency and accountability of company financial management in the era of digitalization.

2. Research Method

In system development, the method applied is Rapid Application Development (RAD). According to Hidayat et al. (2021:10) Rapid Application Development (RAD) is a software development method that follows a linear process sequence, but with an emphasis on a very short development time.

The stages of the Rapid Application Development (RAD) system development are as follows:

1. Requirements Planning

At this stage, the author and the system users meet to discuss the problems faced and identify the needs of the system to be developed.

2. User Design

This stage focuses on creating a system design that suits user needs. This design creation is to ensure the system operates according to needs and is able to overcome existing problems.

3. System Construction

At this stage, the system construction process begins, which is by compiling program code (coding) based on the previously designed design. The goal is to transform the design into a ready-to-use application.

4. Implementation and Testing

In this stage, the implementation of the previously defined system design is carried out. The system will undergo a testing process first before being implemented. The testing stage is when all parts of the system are thoroughly tested to ensure everything works well.

After that, the software can be implemented and handed over to the client.

In this research, the author uses a descriptive research method which aims to provide a systematic overview of the existing conditions and phenomena in petty cash management at PT Madani Sehat Farma Tasikmalaya City. This descriptive research method aims to provide an overview of a phenomenon based on data collected accurately and analyzed systematically (Sahir, 2021:6).

The design and implementation of the petty cash management system at PT Madani Sehat Farma Tasikmalaya City were carried out with several data collection techniques as follows:

1. Interview

According to Estenberg (in Sugiyono:114) Interview is the gathering of two individuals as a means of exchanging thoughts and information through useful question and answer, to gain deep meaningful knowledge on a particular topic.

2. Observation

According to Sahir (2021:30) Observation is direct observation of objects in the field to obtain the required data. This technique is used to understand the workflow, problems, and system needs in reality before designing a relevant information system.

3. Literature Review

According to Nazir (in Sari, M., Asmendri, 2020:43) This literature review is conducted by reviewing various sources, such as books, literature, archives, and reports, related to the problem being researched.

3. Results and Discussion

3.1 System Analysis and Design

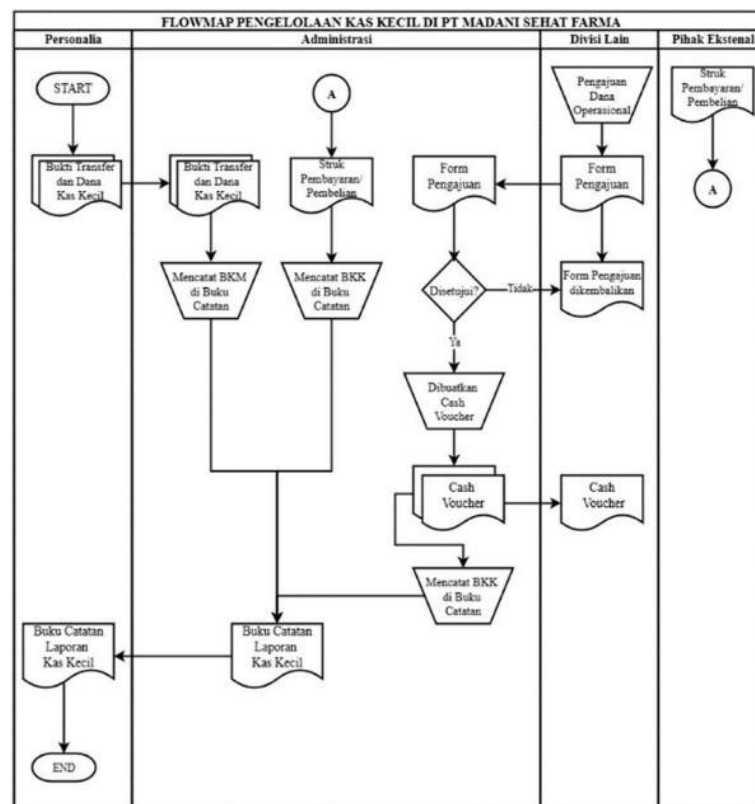


Figure 1. Flowmap of the Current Process

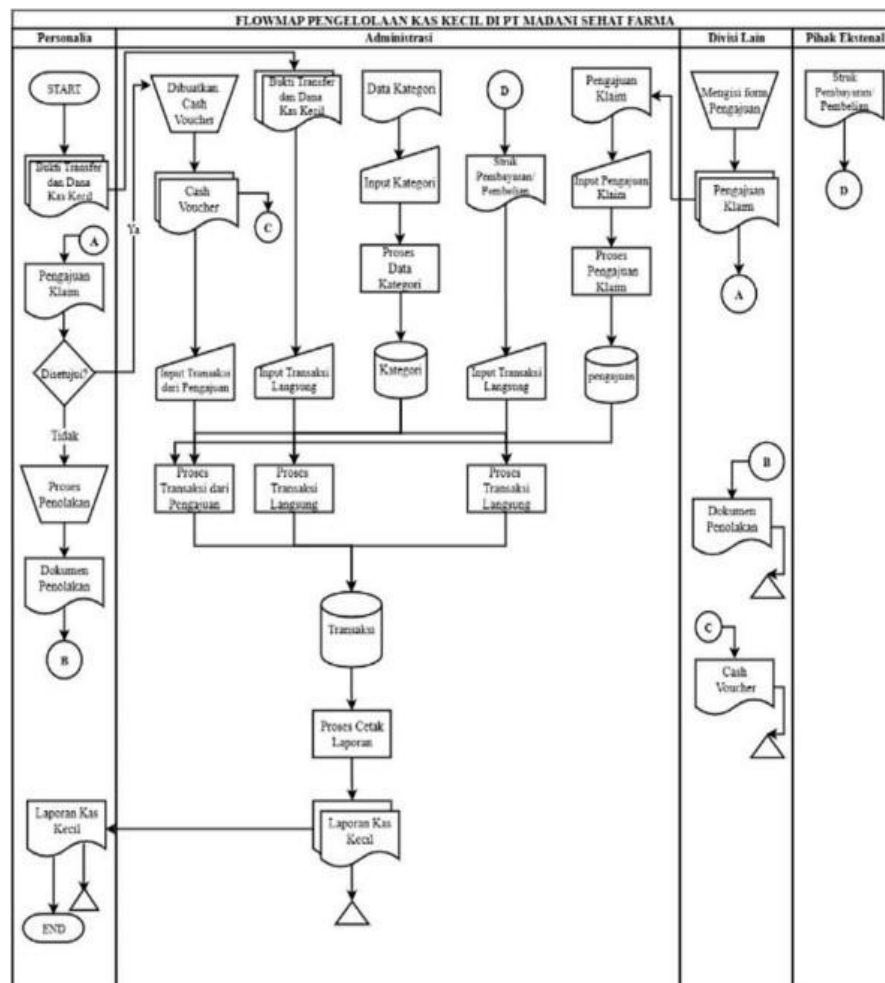


Figure 2. Proposed Flowmap

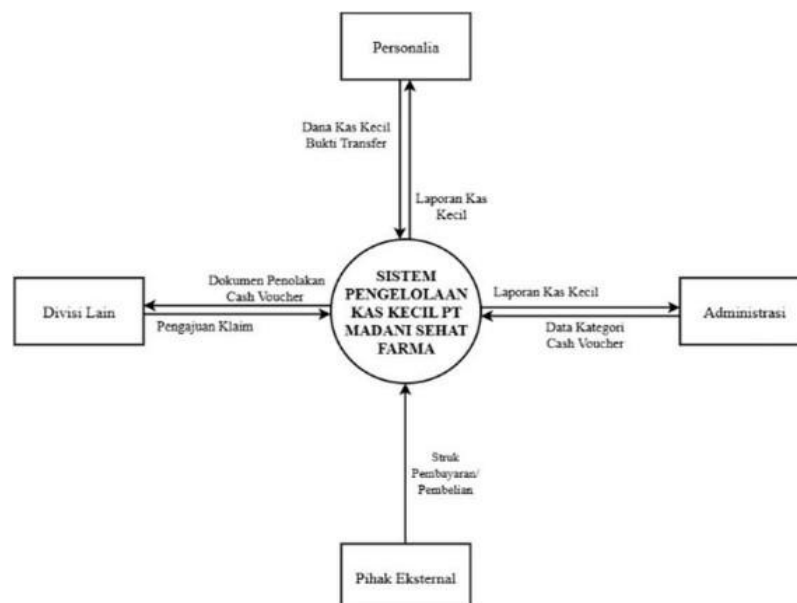


Figure 3. Diagram Context

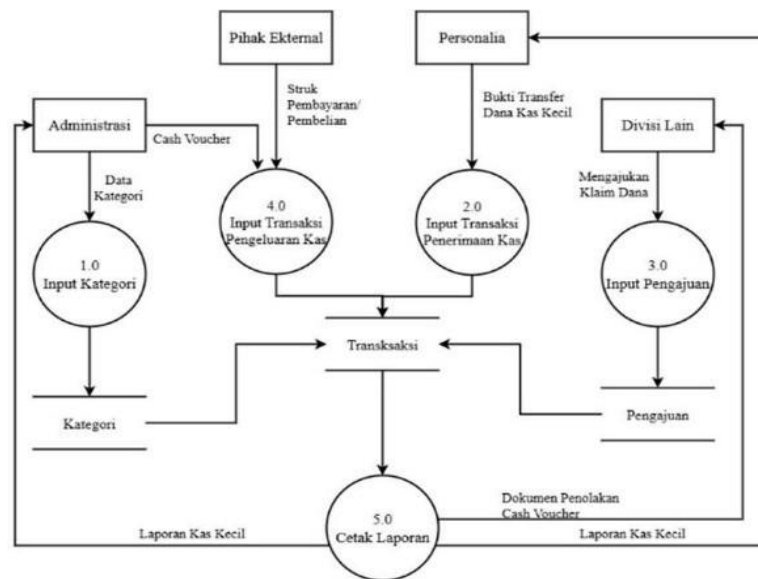


Figure 4. Data Flow Diagram (DFD)

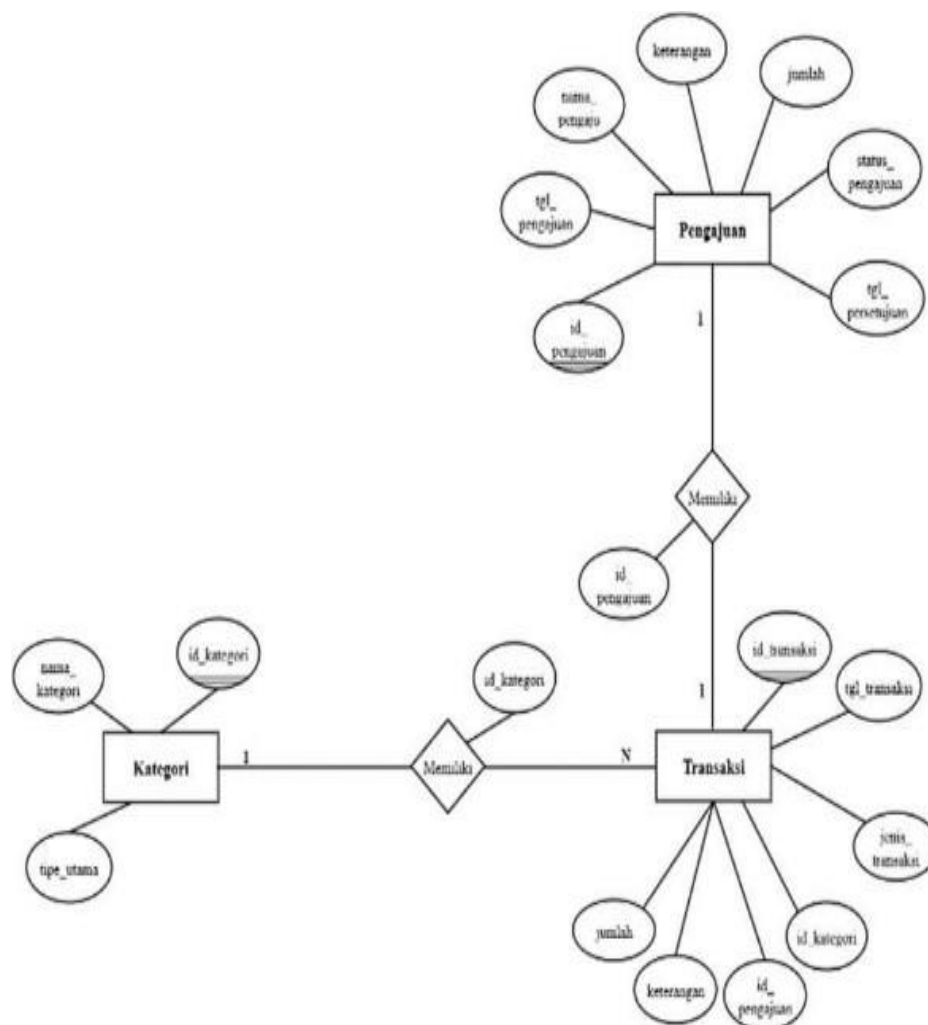


Figure 5. Entity Relationship Diagram (ER-D)

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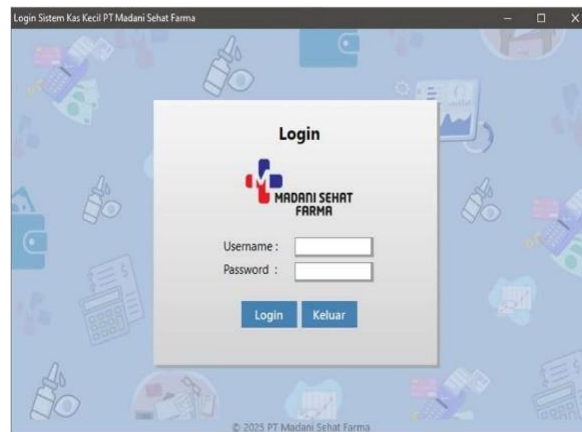


Figure 6. Login Screen Design

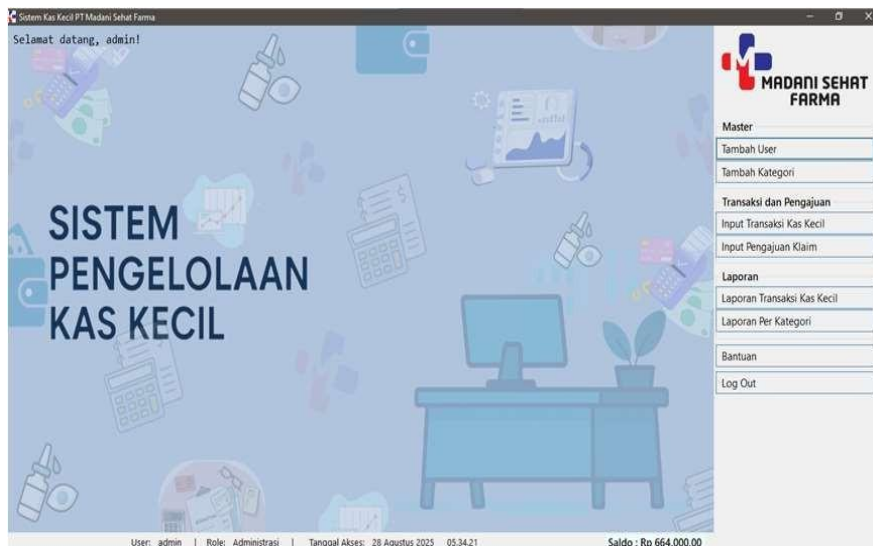


Figure 7. Dashboard Screen Design

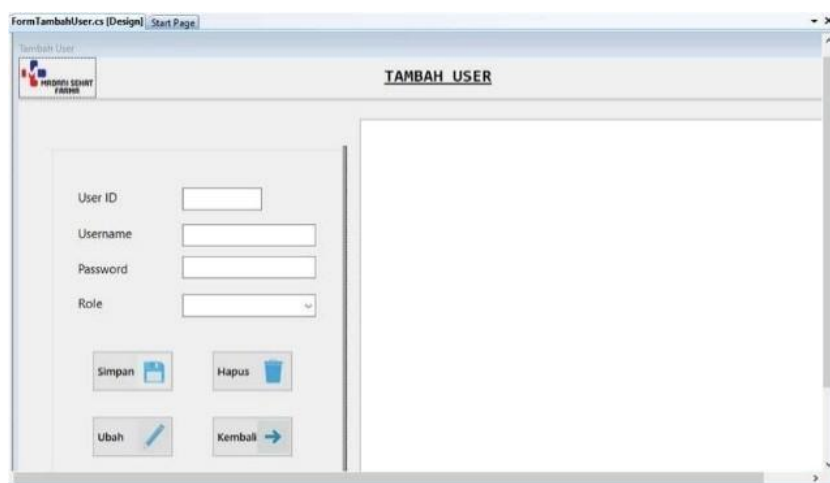


Figure 8. Add User Screen Design

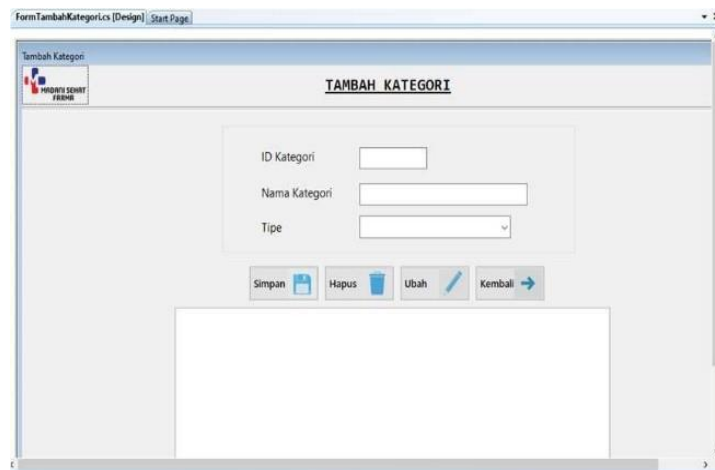


Figure 9. Add Category Screen Design

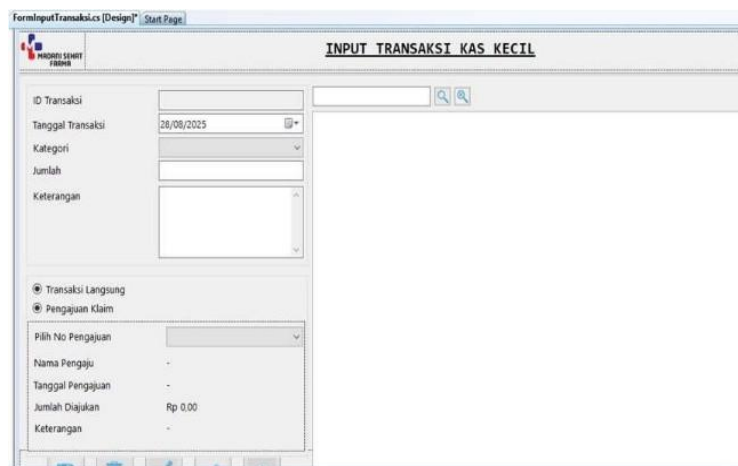


Figure 10. Input Transaction Screen Design

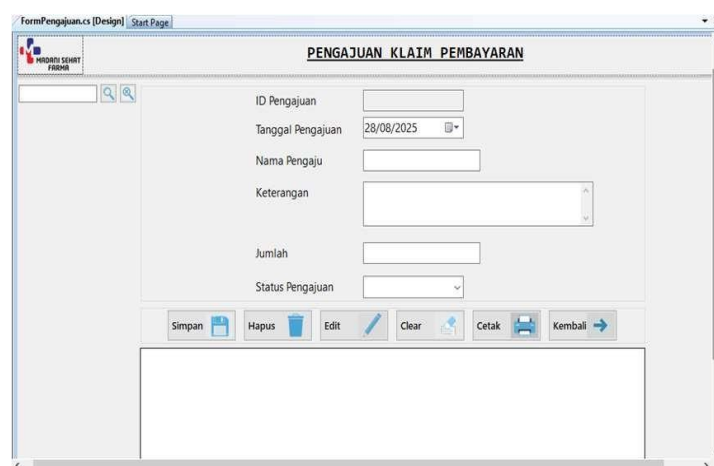


Figure 11. Claim Submission Screen Design

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Laporan Transaksi

Dari : 01/07/2025 Sampai : 27/07/2025

Main Report

PT MADANI SEHAT FARMA
PEDAGANG BESAR FARMASI
 Perum Gitya Parahyangan Blok J No. 15 Sukamannah Cipedes Kota Tasikmalaya 46131
 Email: ptmadanisehatfarma@yahoo.com
 No. Telp / Fax : (0265) 53020007
 No. Tlm : 91200064813340003
 NPPWP : 0860-3324-9342-5000
 No. CDOB : CDOB3584R-4-605602/2025
 No. CDOB : CDOB3584R-1-124307/2021

LAPORAN TRANSAKSI KECIL
 Periode: 01 Juli 2025 s.d 27 Juli 2025

Tgl Transaksi	ID Transaksi	Kategori	Keterangan	Pemasukan	Pengeluaran
08-Jul-2025	TRK25070001	Isi Kas Kecil	isi kembali kas kecil	Rp 5.000.000	Rp -
08-Jul-2025	TRK25070004	Biaya Wifi	bayar wifi j15	Rp -	Rp 365.000
09-Jul-2025	TRK25070006	Biaya Entertain	Realisasi Klaim ID: PJ003 - Klaim Intertain Apotek Pedasuka	Rp -	Rp 150.000
09-Jul-2025	TRK25070007	Biaya Listrik	Token Listrik J15	Rp -	Rp 1.004.000
08-Jul-2025	TRK25070008	Beli ATK	Beli Pulpen	Rp -	Rp 35.000

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

Figure 12. Petty Cash Transaction Report Screen Design

Laporan Pengajuan

Main Report

PENGAJUAN KLAIM
PT Madani Sehat Farma

ID Pengajuan : PJ008
 Nama : Rizqi M Latif

Tgl. Pengajuan : Sabtu, 12 Juli 2025
 Jumlah yang di ajukan : Rp 65.000
 keterangan : Entertain IF Klinik BEC

Status Pengajuan : Realisasi
 Tgl. Disetujui : Sabtu, 12 Juli 2025
 Jumlah yang disetujui : Rp 50.000

Tasikmalaya, 12 Juli 2025

Pengaju, Mengetahui,

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 100%

Figure 13. Claim Submission Report Screen Design

Laporan Per Kategori Umum

Main Report

PT MADANI SEHAT FARMA
PEDAGANG BESAR FARMASI
 Perum Gitya Parahyangan Blok J No. 15 Sukamannah Cipedes Kota Tasikmalaya 46131
 Email: ptmadanisehatfarma@yahoo.com
 No. Telp / Fax : (0265) 53020007
 No. Tlm : 91200064813340003
 NPPWP : 0860-3324-9342-5000
 No. CDOB : CDOB3584R-4-605602/2025
 No. CDOB : CDOB3584R-1-124307/2021

LAPORAN REKAPITULASI PER KATEGORI
 Periode: 01 Juli 2025 s.d 27 Juli 2025

ID Kategori	Nama Kategori	Total Pemasukan	Total Pengeluaran
KK01	Biaya Listrik	Rp -	Rp 1.108.000
KK02	Biaya Wifi	Rp -	Rp 703.000
KK03	Beli ATK	Rp -	Rp 65.000
KK04	Biaya Klaim Service	Rp -	Rp 1.900.000
KK05	Biaya Entertain	Rp -	Rp 300.000
KK06	Biaya Bensin, Tol, Parkir Marketing	Rp -	Rp -

Current Page No.: 1 Total Page No.: 1 Zoom Factor: 85%

Figure 14. Recapitulation Per Category Report Screen Design

Laporan Per Kategori Detail

PT MADANI SEHAT FARMA
PEDAGANG BESAR FARMASI
 Perum Griya Parahyangan Blok I No. 15 Sukamanah Cipedes Kota Tasikmalaya 46131
 Email: pt.madani.sehat.farma@yahoo.com
 No. Telp / Fax : 0365 53920007

No. Izin : 91200063813340003
 NPWP : 0860 - 3324 - 9342 - 5000
 No. CDOB : CDOB3184R.4.6056022025
 No. CDOB : CDOB3184R.1.1243072021

LAPORAN REKAPITULASI DETAIL PER KATEGORI
 Periode: 01 Juli 2025 s.d 27 Juli 2025

Biaya Listrik				KK01	
Tgl. Transaksi	ID Transaksi	Keterangan	Pemasukan	Pengeluaran	
09-Jul-2025	TRK25070007	Token Listrik J15	Rp -	Rp 1.004.000	
11-Jul-2025	TRK25070012	Token J12	Rp -	Rp 104.000	
Sub Total			Rp -	Rp 1.108.000	

Biaya Wifi

Tgl. Transaksi	ID Transaksi	Keterangan	Pemasukan	Pengeluaran
KK02				

Current Page No: 1 Total Page No: 1+ Zoom Factor: 85%

Figure 15. Detail Recapitulation Per Category Report Screen Design

BANTUAN

Informasi Kontak dan Dukungan Teknis
 Jika Anda mengalami kendala atau pertanyaan seputar penggunaan aplikasi ini, jangan ragu untuk menghubungi:
 No Telp / WA : +62 898 779 854
 Email : rizenurfitriana54@gmail.com
 Mohon sertakan detail masalah yang Anda alami (termasuk pesan error jika ada) untuk mempercepat proses penanganan.

Tentang Pengembang


 Nama : Rizka Nurfitriana
 Peran : Pengembang Aplikasi
 Mahasiswa Politeknik Trilogia Tasikmalaya
 Domisili : Tasikmalaya, Jawa Barat
 Sosial Media : @rizenurfitriana

Terima kasih telah menggunakan aplikasi ini.
 Saran dan masukan Anda sangat berarti untuk pengembangan ke depan.

Figure 16. Help Screen Design

3.2 System Testing and Implementation

The developed Petty Cash Management System, built using C# .NET and a Microsoft Access database, must be tested thoroughly to ensure its functionality and compliance with user requirements. System testing was conducted using Black Box Testing.

Black Box Testing was performed to verify that all system features and functions operate correctly. The results are summarized in the following table:

Table 1. Black Box Testing Result

No	Module/ Feature Tested	Test Scenario	Expected Result	Actual Result	Status
(1)	(2)	(3)	(4)	(5)	(6)
1	Login	Inputting the correct Username and Password	Successfully enters the Main Dashboard	Successful	Passed
2	Input Direct Transaction	Recording a Petty Cash Expenditure	The transaction is recorded, and the cash balance is automatically reduced	Successful	Passed

(1)	(2)	(3)	(4)	(5)	(6)
	Transaction Report	Generating the Petty Cash Transaction Report for a specific period	A report is displayed and can be printed (as seen in Fig. 12 – Fig. 15).	Successful	Passed
3					

4. Conclusion and Limitations of The Study

4.1 Conclusion

Based on the background of the problem, problem formulation, analysis and discussion at the beginning, several conclusions can be drawn as follows:

1. That the current system for petty cash management at PT Madani Sehat Farma Tasikmalaya City has not been computerized or still applies a manual system using a notebook.
2. That the proposed system for petty cash management at PT Madani Sehat Farma Tasikmalaya City has truly been proven to help simplify and streamline petty cash management at PT Madani Sehat Farma Tasikmalaya City.

4.2 Limitations of The Study

This research and the resulting Petty Cash Management System application have several limitations that need to be noted, which were primarily constrained by the scope of the final project and company needs:

1. This system focuses exclusively on Petty Cash Management and is not yet fully integrated with the company's overall accounting system or General Ledger.
2. This research was only conducted at PT Madani Sehat Farma Tasikmalaya City, meaning the findings cannot be directly generalized to all types of companies.

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