



Medicine Information Monitoring System In Web-Based Medical Clinics

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A B S T R A C T

Bunda Medika Clinic is a business entity that serves general medicine (general practitioners and dentists), midwifery services, and BPJS services in childbirth. Along with the variety of services at the BundaMedika Clinic, the supply of medicines is increasing. With the variety of services, so too many types and quantities of drugs. Currently the process of selling transactions, checking, and recording of drugs at the clinic is still done conventionally using a written form. In order to facilitate officers in conducting sales transactions, checking, and inputting drugs, the authors make a drug monitoring information system at the BundaMedika Clinic. This monitoring information system can display drug stocks so that they can assist officers in checking the availability of drugs, conduct drug sales transactions, display incoming stock reports containing notifications about what drugs have just been added. And display outgoing stock reports derived from drug sales transactions.

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1. Introduction

Maternal Clinic of Medicines is one of the businesses and businesses that provide general treatment (general practitioners and dentists), obstetric care, and BPJS services in childbirth. Along with the diversity of services in the Mother Clinic in Medicines, the supply of medicines is increasing. With a variety of services, then also the number of types of drugs added. Therefore, Mother of Medicines desires to implement a web-based monitoring information system which is an application of supporting drug control activities through computer media connected to the internet network. Because the process of selling transactions, checking, and recording of medicines at the clinic is still being carried out as conventional as using written formats.

According to Mercy (2015) Monitoring is defined as a cycle of activities that include the collection, review, reporting, and action of information on a process that is being implemented.

Based on the problems that exist in the Mother Clinic in Writing, it intends to conduct research to develop a web-based drug monitoring information system, which makes it easy for officers to conduct sales transactions, checking, and inputting medicines.

2. Literature Review

2.1. System

According to Jogiyanto (2005) a systems approach that emphasizes procedures defining the system as: "networks of interrelated procedures and procedures, gathering together to carry out an activity or to complete certain objectives" ..

2.2. Information Systems

According to O'Brian (2012: 17) on the Introduction to Information Systems, information systems (information systems) are a combination of people, hardware, software, softwares, communication networks, and data resources that collect, change, disseminate information in an organization.





2.3. Monitoring

According to Sutabri (2012) Monitoring is also defined as a step to make what activities are carried out after meeting the objectives, identifying problems that arise so that they can be directly addressed, assessing whether or not the management and actions used are appropriate to achieve the goals, knowing the relationship between the measures and the goals.

2.4. Medication

According to Ansel (2001), drugs are a general health assistant and led by a medical specialist.

2.5. Website

According to AgusHariyanto (2015), the Website is: "The web can be interpreted as a collection of pages that display information on text data, image data, animated data, sound, video and video and all of them, both in the form of dynamism in a system that forms a series of interrelated buildings, where each information is connected to the networks of hyperlinked (hyperlinked) environments."

2.6. OOP (Object Oriented Programming)

According to Rosa A.S & M. Shalahuddin, Soft Device Engineering, 2018: 100, the object-oriented methodology is a soft-development strategy that organizes software-tools such as groups of objects that contain data and operations that are applied to it.

2.7 Unified Modeling Language (UML)

According to Rosa A.S & M. Shalahuddin, Soft Engineering 2018: 137, Unified Modeling Language (UML) is a standardization of the language of modeling for soft device development that is built by using object-oriented programming techniques.

3. Methodology

3.1. Use Case

This use case diagram illustrates the application that you are going to build, how someone or what you are going to use and how you can use it. The objective of this case modeling is to define the functional and operational requirements of the system by defining the syntax of the application that will be built. This definition includes the identification of factors, identification of cycles and diary of applications that will be built. The use case modeling is directed and emphasizes the application (frontend), i.e. the application that will be built, whereas the backend (web) is only modeling to illustrate how the information is based on the application that will be built.

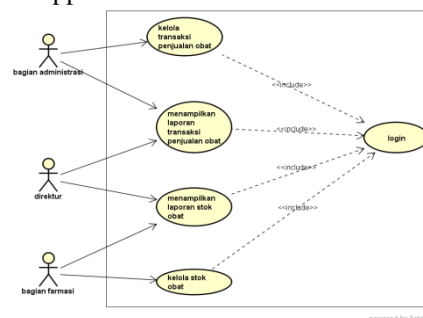


Fig 1. Use Case Diagram of a Drug Monitoring Information System



b) DisplayPrimary Page: Admin

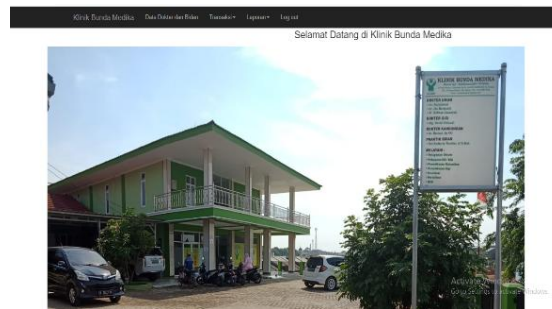


Fig 3. DisplayPrimary Page: Admin

c) DisplayPages of Transactions: Selling Drugs

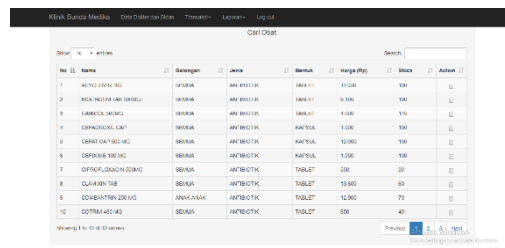


Fig 4. Selling Drugs

d) Display Purchase Trucks

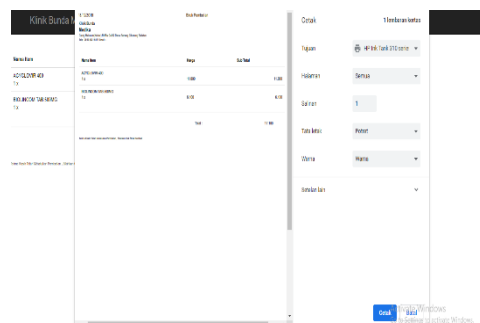


Fig 5. Display of Purchase Truck

e) DisplayPages of Transactions: Drug Sales and Inspections

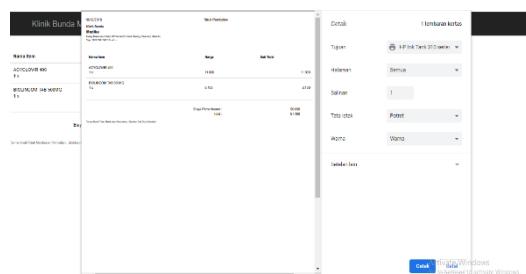


Fig 6. Display of Transaction Pages: Drug Sales and Inspections



f) Display Purchase Trucks

No	Nama	Sediaan	Area	Bentuk	Harga Beli	Stok	Aksi
1	ACECLOXICAMID	800.00	KITRATOL	TABLET	11.00	10	
2	AMOKSISILIN BENZIL	800.00	KITRATOL	TABLET	4.10	10	
3	ASPIRIN	800.00	KITRATOL	TABLET	4.10	10	
4	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
5	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
6	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
7	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
8	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
9	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	
10	ASPIRIN	800.00	KITRATOL	TABLET	1.00	10	

Fig 7. Display of Stock Exit Report Page

4.3. Monitoring Testing

System Testing is the stages to find errors and deficiencies in the system that is built, so that after knowing whether the application is in accordance with the serial objectives and the desires of the user of the system. The testing system uses a black box method. Black box testing is focused on.

5. Conclusion

After carrying out the testing of drugs on the drug monitoring information system in carrying out the process of drug monitoring in the Mother of Medicines clinic. Monitoring information system that can display, add stock / drug data so that it can assist officers in checking the availability of drugs. Drug monitoring information system that can conduct drug sales transactions, so that officials can easily carry out transaction processes. The drug monitoring information system displays incoming reports which contain notifications about what drugs have just been added. And displaying outgoing stock reports that come from drug sales transactions.

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