Drug Supply Information System at Royal Prima Hospital

[1]Odiliana Dakhi, [2]Elvika Rahmi

[1,2] Universitas Imelda Medan

ARTICLE INFO	ABSTRACT
	Drug Inventory Information System at Royal Prima Hospital Medan. The purpose of making this final project is to be able to assist agencies in finding drugs available at RSU Royal Prima Medan computerized or using a system, designing a system so that the drug search process can be easily found by employees of RSU Royal Prima. The data collection methods carried out by the author include the field method and the average method. The Drug Inventory Information System at Royal Prima Hospital uses VB.Net 2010 programming and MySQL as the database.
Email : rahmielvika@gmail.com	

INTRODUCTION

As technology and information are increasingly developing in various business fields, it cannot be separated from the influence of information technology. Thus, more and more entrepreneurs are applying information technology in managing their business fields or government agencies. In an agency engaged in community services where the process of drug supply in each hospital unit is common. So it is necessary to record incoming and outgoing drugs, if the process is still manual, it will affect work efficiency and lack of data accuracy. As an agency engaged in community services, of course, it must have supporting infrastructure in facilitating the rapid exchange of information to find out the flow of drug supply processes in the form of incoming and outgoing drugs, especially in

Royal Prima Hospital, Medan City, North Sumatra. Problems faced by the Royal Prima Hospital company, Medan City, North Sumatra. Currently, the inaccurate data between the number of drugs in the warehouse and the drug recording department causes differences in the number of drugs and overlapping drug inventories stored in warehouses, making it difficult to recapitulate the data. Based on the above problems, a system is needed, namely the Drug Supply Information System at Royal Prima Medan Hospital. This system is expected to be able to overcome various problems faced by the Royal Prima Hospital company, Medan City, North Sumatra.

METHOD

Judging from the type, this research was carried out directly at the research location with a survey, because data collection was carried out by direct observation at Royal Prima General Hospital, namely with data collection tools in the form of interviews. While the nature of this research is descriptive, which means providing a clear and detailed picture of the supervision of the implementation and flow of explanation of drug inventory management at Royal Prima Medan General Hospital. The reason the author uses this type of research is so that the final project can be made in the right ways with structure.

The type of data according to Sugiyono (2014: 91) in his book entitled Business Methodology Quantitative Data and Qualitative Data is as follows: "Quantitative data is research whose type of data is in the form of numbers or data". While "qualitative data is research whose type of data is expressed in the form of words, sentences and images". The type of data that the author takes is quantitative and qualitative data in the form of data and words or sentences.

The data collection techniques used by the authors are as follows:

1. Field Research
   Field research is research carried out by visiting directly the place that is the object of research.
2. Interview

Interview is "the process of obtaining information for research purposes by means of direct questions and answers to parties related to the research title".

3. Observation

The definition of the interview was direct observation as "a way of collecting data using the eyes without the help of other standard tools for these purposes".

RESULTS AND DISCUSSION

Proposed System Plan

By analyzing and surveying the ongoing system, the Design of a Drug Supply information system was made at Royal Prima Medan General Hospital. This makes it easier for the Pharmacy department to process the list of incoming and outgoing drugs as well as reports on the stock of drug supplies in the Pharmacy warehouse. The system to be designed is the inventory information system of the Royal Prima Medan North Sumatra RSU Company using *a MySQL database*, it is hoped that the system that will be designed can solve problems about drug supplies at Royal Prima Medan General Hospital.

Diagram Alir Data
Context Diagram

Context diagrams are the highest level of data flow diagrams (DFDs), used to describe globally the systems designed from information systems. The system that will be designed thoroughly is a clear picture of the scope of discussion where as the medium is in the form of a context diagram.
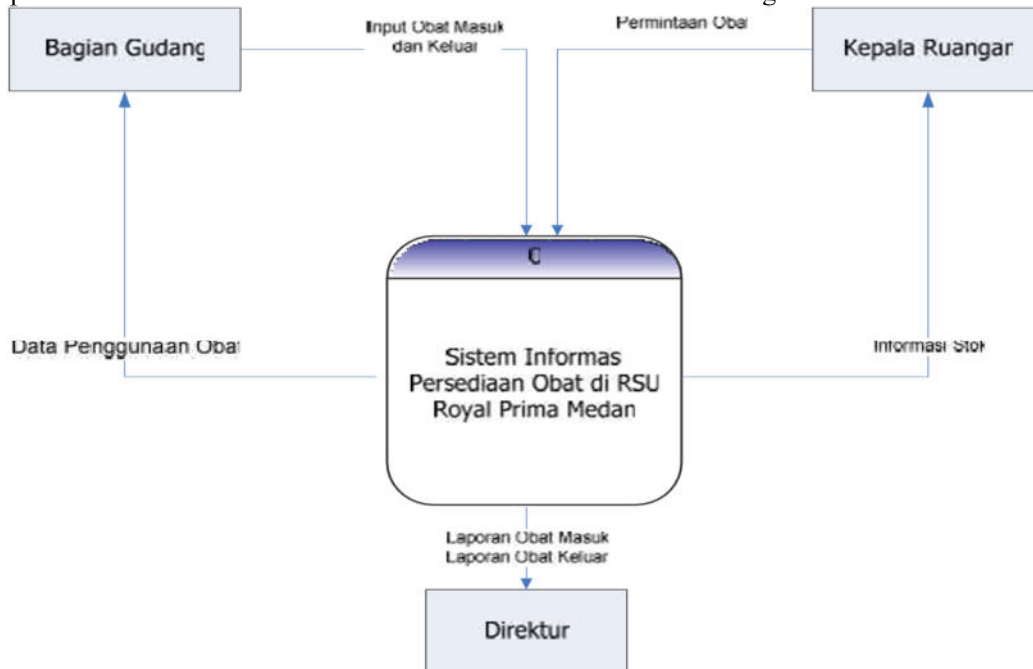

Figure 1. Context Diagram

Information:
1. The Warehouse Department inpu Drugs in and Drugs out according to the Drugs in and Drugs out invoices.
2. The warehouse department made a report to the head of RSU Royal Prima Medan to ask for approval for drugs to enter the warehouse.
3. The Head of RSU Royal Prima Medan receives incoming and outgoing drug reports, stock reports, inventory data reports / drug data and gives approval for each report from the warehouse section.
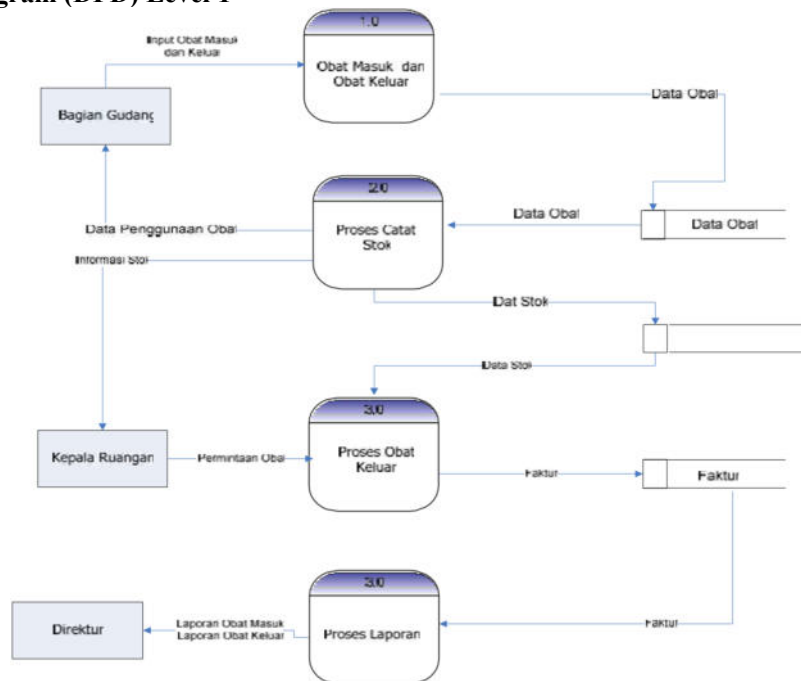
Data Flow Diagram (DFD) Level 1

Figure 2. DFD Level 1

Program Display Results
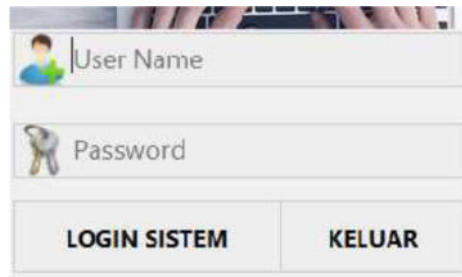**Main Menu Display**

Figure 3. Main Menu Display

Login View

Figure 4. Login Display Login

*Drug Supply Information System at Royal Prima Hospital.***Odiliana Dakhi, et.al**
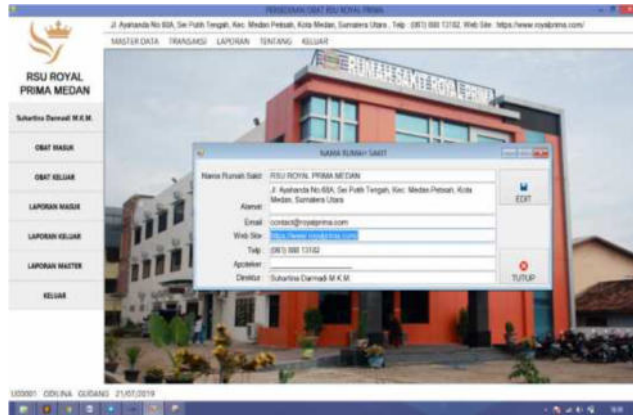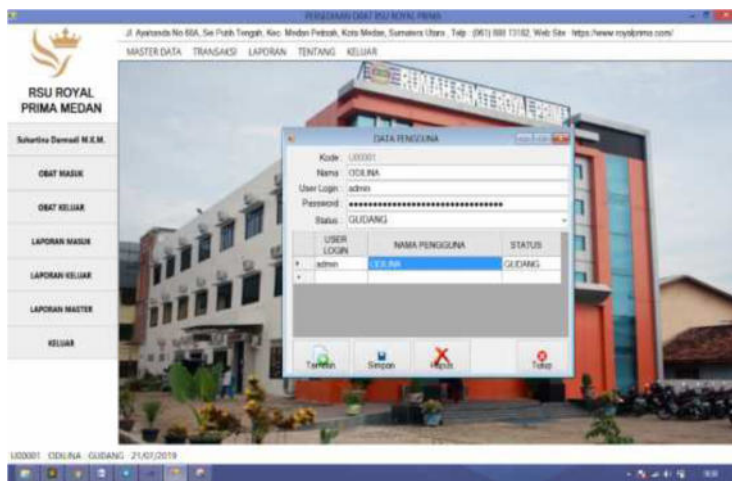
Master View
Profile Form Display

Figure 5. Main Menu Form

User Form Display

Gambar 6. Form User

Display of Drug Form

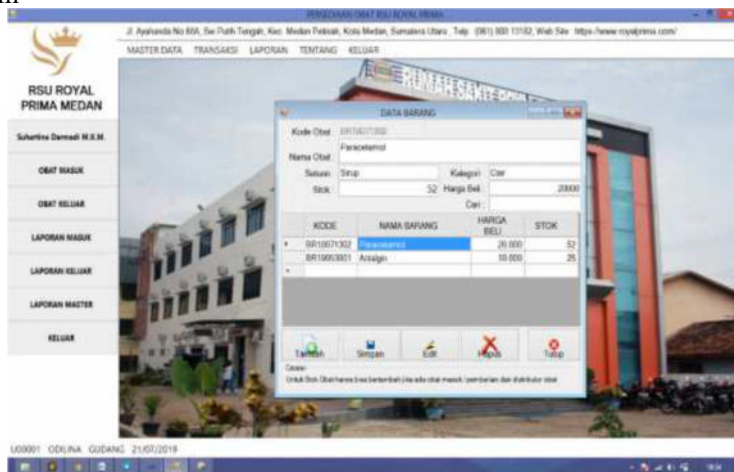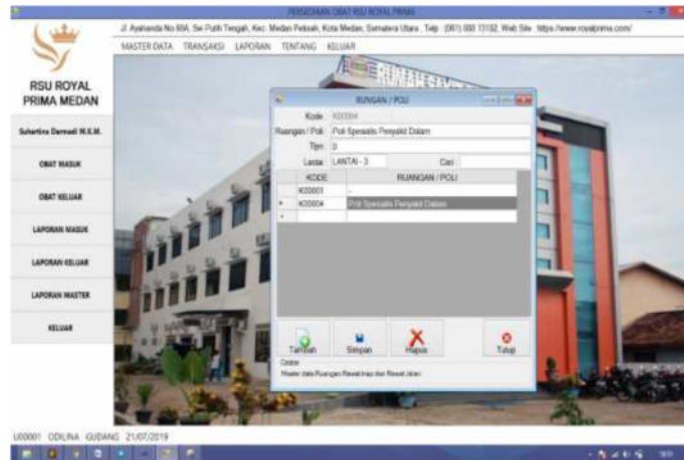**Figure 7. Drug Form**

Display Form Unit / Room

Figure 8. Poly Form

Display of Drug Distributor Form
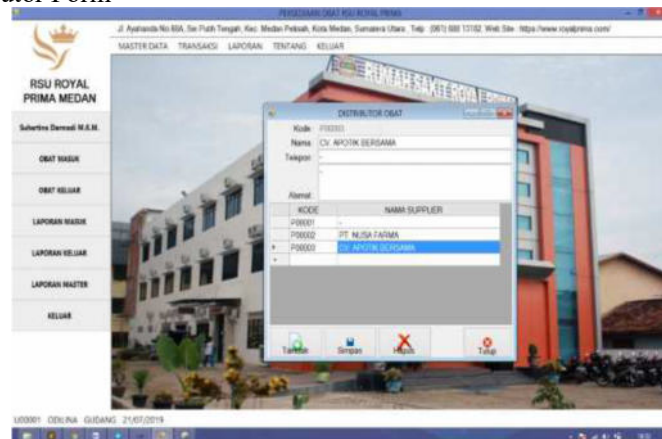

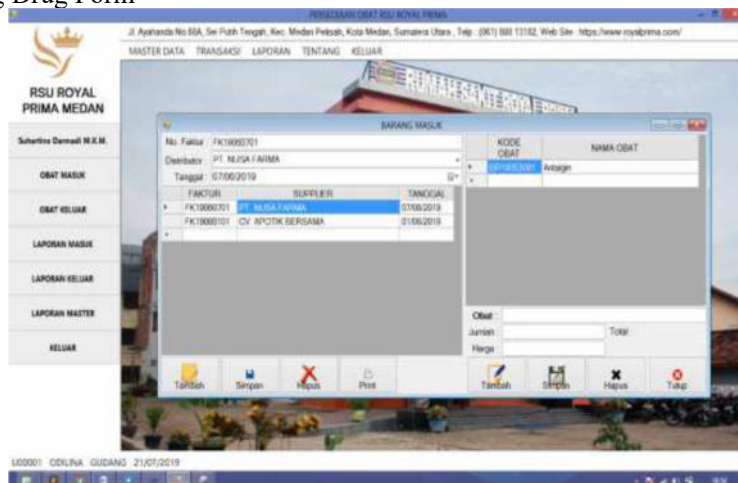Figure 9. Display of Drug Distributor Form

Display of Incoming Drug Form

Figure 10. Display of Incoming Drug Form

Display of Exit Drug Form
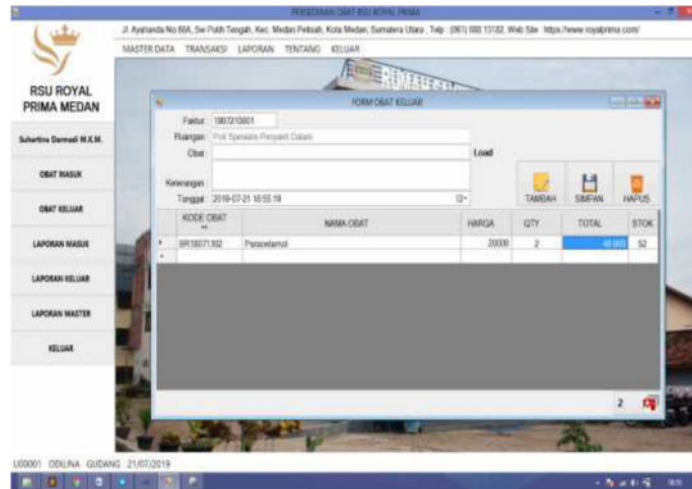

Figure 11. Display of Exit Drug Form
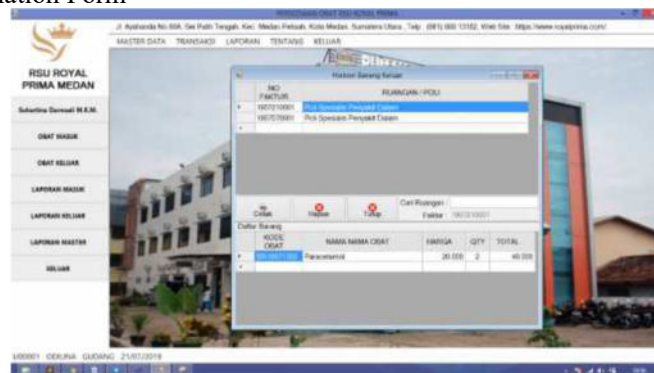
Display of Drug Cancellation Form

Figure 12. Display of Drug Cancellation Form

Advantages of the Proposed System
1. Can facilitate the Royal Prima Medan RSU agency in processing drug inventory reports in the warehouse.
2. Can help in processing drug stocks computerized.
3. Assist in computerized input of incoming and outgoing Medicines.
4. Make it easier to find drugs in the warehouse of RSU Royal Prima Medan.

Weaknesses of the Proposed System
1. This system only runs on LAN (Local Area Network).
2. Automatic database backups cannot be done automatically by the system.

CONCLUSION

Based on current technological developments, the author concludes that Royal Prima General Hospital deserves to implement a computerized warehouse inventory management system. The design that the author proposes in the warehouse data management information system at the Royal Prima General Hospital company in Medan is able to input drug data, outgoing drugs and warehouse information such as stock. This information system can make it easier for officers or warehouse sections to make it easier to make reports computerized.

REFERENCES

A.Rusdiana, Sistem Informasi Komputer. Yogyakarta: Jurnal-Nasional, 2014.

Tyoso, J. S. P. (2016). Sistem informasi manajemen. Deepublish.

Hutahaean, J. (2015). Konsep sistem informasi. Deepublish.

Sutabri, T. (2012). Konsep sistem informasi. Penerbit Andi.

Rainer, R. K., Prince, B., Sánchez-Rodríguez, C., Splettstoesser-Hogeterp, I., & Ebrahimi, S. (2020). Introduction to information systems. John Wiley & Sons.

Arifin, N. Y., Kom, S., Kom, M., Tyas, S. S., Sulistiani, H., Kom, M., ... & Kom, M. (2022). Analisa Perancangan Sistem Informasi. Cendikia Mulia Mandiri.

Sakti, P. P. T. A. D., & PUTRI, R. J. (2007). Sistem informasi manajemen.

E. Tjahjono dan Felecia. "Perbaikan Manjemen Sistem Gudang di PT Dewata Cipta Semesta". Titra, 2 (2015).

Sitorus, E. S., Rajagukguk, D. M., & Lumbanbatu, M. J. (2022). Web-Based Information System Of Sales And Purchase Of Msme Products In The Sidorejo Hilir Village Office. Jurnal Komputer Indonesia (Ju-Komi), 1(01), 1–6. R

Rusdiana dan Moch.Irfan. Sistem Informasi Manajemen. Bandung: Pustaka Setia, 2014.

Tantra Rudy, Perencanaan dan Pengendalian Produksi.Yogyakarta: Graha Ilmu, 2014.

Yakub. Pengantar Sistem Informasi. Yogyakarta: Graha Ilmu, 2014.

https://id.wikipedia.org/wiki/Diagram_alir/01 - 2014.

http://id.wikipedia.org/wiki/URL. (2016). Visual Basic .NET.

Sitanggang , A. T., & Maulana, F. (2023). Web-Based And Mobile-Based Information System Of Accompanying Diplomas. Jurnal Komputer Indonesia (Ju-Komi), 2(01), 1–11

msdn.microsoft.com/en-us/vstudio/hh388568 .

Denni, D. M. R., & Manalu, M. R. (2021). Perancangan Sistem Informasi Peserta Keluarga Berencana di Perwakilan BKKBN Sumatera Utara Berbasis Visual Basic (VB) Net. JITA (Journal of Information Technology and Accounting), 4(2), 7-11.

Rathor, K., Chandre, S., Thillaivanan, A., Raju, M. N., Sikka, V., & Singh, K. (2023, April). Archimedes Optimization with Enhanced Deep Learning based Recommendation System for Drug Supply Chain Management. In 2023 2nd International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN) (pp. 1-6). IEEE.

https://id.wikipedia.org/wiki/MySQL. (2016, Mei 7). Pengertian MySQL. MySQL .