Application Of Help Service And Management Of Registration Data Of Patients Klinik Prima Medistra

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Abstract. The application of services and administration of patient registration data Klinik Prima Medistra is an application designed and built with the aim to assist in improving service and management of patient registration data better. This application is designed by using Context diagram and built by using sublime software, PHP as programming language and Mysql as database. The result of this research is application auxiliary service and manage patient registration data of Klinik Prima Medistra that can improve patient service at Klinik Prima Medistra faster and effective and assist in better managing patient registration data and no double or skid data.

Keywords: patient, service, application, data management, registration.

1 Introduction

Community service in any field greatly affects the trust and judgment of the community on the institution or company including the health service. Health services involve the role of physician, staff and patient[1]. One of the health services is the registration of patients, patients who have just come to the clinic or other health services are required to register in advance for patient data collection and get queue number. Medical personnel and capable staff provide good service to the consumers of course must be supported by the processing of existing data to facilitate the results of the report[2].

Klinik Prima Medistra is one of the health facilities that serve health services to the community. Health services, especially the registration of patients at Klinik Prima Medistra is still done by inputting data to the computer and not yet using an application or system that helps the registration service and management of patient data this resulted in data slipped or the patient who has been registered and lost medical card listed again so that there is double patient data, as well as medical cards are still written using a pen has not been automatically printed from the system. Registration services that are less rapid can cause the queue of patient registrants longer and so if accompanied by checking the data in advance the time required will be longer. If the service provided is in accordance with the desired, then the visitor will be satisfied, if the opposite happens it will cause loss of visitor interest to seek treatment and this will cause the health center visitors to have negative views on the health center which will result in a decrease in the number of health center visitors[3].

Increasingly sophisticated technology and increasingly widespread Internet usage are able to provide better solutions for data management and can help cope with data slippage and can assist in checking patient data and speeding up the printing of medical cards. From the ICCSET 2018, October 25-26, Kudus, Indonesia Copyright © 2018 EAI

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background and problems described above then made an application of service aids and manage patient registration data Klinik Prima Medistra.

1.2 Problem Formulation

How to analyze and design the application of service aids and manage patient registration data of Klinik Prima Medistra.

1.3 Limitation Problems

In this research will be discussed about the management of patient registration data, doctor data input and specialist data management. Information generated by doctors practice schedule information, poly list specialist information, queue number and patient treatment card.

2 Research Methods

Research Stages:

- a. Data collection
 - In conducting data collection is done by conducting interviews with related parties regarding patient data to be inputted, doctors data, practice schedule data also do literature study related to research.
- b. System Planning This stage is by identifying the problem and then provide an alternative solution application design service aids and manage patient registration data Klinik Prima Medistra.
- c. System analysis At this stage is done on-going system analysis by menggambraknya using FOD to be used as a reference when making system design to be proposed.
- d. System design This stage created a new system design that will be proposed is to create a design
- using the context diagram.e. System Implementation Applying the resulting application that is the application of service aids and manage
 - Applying the resulting application that is the application of service aids and manage the registration data of Klinik Prima Medistra patients.

3 Result and discussion

3.1 Flow of Document (FOD)

Flow of document describes the flow of documents from the running system. FOD in the registration process starts from the patient filling out the registration form with the patient's complete self data. After that, the patient submits the patient's personal data to the admin.



Then the admin receives the patient's self data and make a medical card and submit the queue number to the patient. Here's FOD from patient registration process.

Fig.1. FOD application help service and manage patient registration data Klinik Prima Medistra.

3.2 System Design

3.2.1 Description of functional requirements

Functional requirements are types of requirements that contain any processes that will be carried out by the system. Functional requirements also contain any information that must exist and be produced by the system[4]. The functional requirements that must exist in the system to be developed are as follows:

- 1. The system should be able to provide appropriate information about the registration of patients at Klinik Prima Medistra
- 2. The system should be able to provide information about the list of doctors in Klinik Prima Medistra

- 3. The system should be able to provide information about the list of existing specialist poly.
- 4. The system should be able to provide information about the patient's treatment card so that patients can print medical cards and find out the queue number directly.

Actors within the scope of the system are:

- a. Patients performed are:
 - 1. Login System
 - 2. Choosing a targeted doctor
 - 3. Choose a poly specialist in compliance
 - 4. Sign up
 - 5. See information about patient treatment card and queue number
- b. Admin
 - 1. Login System
 - 2. Managing doctors who practice data in Klinik Prima Medistra
 - 3. Managing the list of poly specialists in Klinik Prima Medistra
 - 4. Manage patient registration data
 - 5. Provide information about patient treatment card and queue number.

3.2.2 Context Diagram

Context diagram is a diagram that consists of a process and describes the scope of a system[5]. In the context diagram below there are two entities involved is patient and admin. Patient can perform patient data input where the data of nati will be processed in sisten and produce information of patient data which will be accepted by admin. Patient data information received by the admin will be processed back to the system and produced medical treatment card to be given to the patient.



Fig. 2. Context Diagram of service aids application and manage patient registration data of Klinik Prima Medistra.

3.2.3 DFD Level

In the DFD level there is a process of admin login process, user login, registration of patient data management, and card printing process.



Fig. 3. DFD Level help service application and manage patient registration data of Klinik Prima Medistra.

3.2.4 Table Relation

In the application of service aids and manage patient registration data Klinik Prima Medistra there are some table structure that is user table, patient table, specialist table, doctor table, and registration table, for relation between tables can be seen in figure 4 below:



Fig. 4. Relation Table help service applications and manage patient registration data of Klinik Prima Medistra.

3.3 Implementation System

1. Patient Registration Form

The image below is used to create a new account for patients to get into the system and be able to enroll when they seek treatment.



Fig. 5. Registration Form Patient application of auxiliary services and manage patient registration data of Klinik Prima Medistra.

2. Patient Biodata Form

Form in fig. 6 is used to perform the biodata filling of patients who will register.

Beranda Setting Akon	
P	RIMA MEDISTRA
	Good service for a better life
elamat datang sonia Michol anakani Biodata	Biodata
endaftaran etal: Kartu Logout	ID User : PM007 Nama : Sonia Shekha A Leepkan
ogout	Alamat : Ds. krik. rt 03 rw 01 mejoba, kudus jenis : O Laki-taki @ Perempuan
	No. Hp : 665867665123 Simpan Batal

Fig. 6. Form Biodata Patient application aids services and manage patient registration data of Klinik Prima Medistra.

3. Registration Form for treatment The form in Fig.7 is used to register when the patient wishes to seek treatment

Beranda Setting Akun			
- F	PRIMA	MEDIS	STRA
	Good service	e for a bett	erlife
	Selamat Datang di Sist	em Informasi Pendaftaran 1	Elinik Prima Medistra
elamat datang sonia Menu		Pendaftaran	
engkapi Biodata			
Pendaftaran	ID Pendaftaran	: PD005	
topout-	ID Pasien	: PM007	
ogout	Tanggal	: 2017-10-31	
	Pilih Dokter	: DK902	Pih Dokter
		Simpan Batal	
		harden and harden and	

Fig. 7. Patient Registration Form for treatment in auxiliary services application and manage patient registration data of Klinik Prima Medistra.

4. Admin form manage patient data

Form fig.8. below is used by admin to manage the data of patients who have signed up.

Beranda Setting Akun						
-	F	PRI	МА	MED	ISTR	A
		Good	Iservic	eforabe	etter life	
					Selanat D	Natang di Sistem Inf
elamat datang angga	_				Selonat D	Natang di Sistem Inf
elamat datang angga Menu Jata Pasiter Jata Spesialis	1			Data Pasie	Selamat D	Natang di Sistem Inf
elamat datang angga Henu lata Pasien data Dokter Jata Spesialis Transaksi	No	Id Pasien	Nama	Data Pasie	Scianat D	Aksi
elamat datang angga Menu lata <u>Pasien</u> ata Dokter tata Spesialits Transaksi ota Pendaftaran	N0 1	Id Pasien PM004	Nama abdul ghofur	Data Pasie	Selamat D	lotang di Sistem Inf Aksi Detail Hapus
elamat datang angga Meno ata Pasien ata Dokter ata Spesialis Transaksi ata Pendaftaran Laporan	No 1 2	Id Pasien PM004 PM005	Nama abdul ghofur Wahyu	Data Pasie	Selanat D	Aksi Detail Hapos Detail Hapos
elamat datang angga Menu Jata Pasien Yata Spetallis Transaksi Jata Pendaftaran Laporan aporan Pasien aporan Pasien	No 1 2 3	Id Pasien PM004 PM005 PM006	Nama abdul ghofur Wahyu Muh. Kahfi	Data Pasie	Selamat D No HP 081325906608 089987765432 08998765432	Aksi Aksi Detail Hapus Detail Hapus Detail Hapus

Fig. 8. Admin form managing patient data help service application and manage patient registration data of Klinik Prima Medistra.

5. Input Form Doctor Data

Form Fig.9 is used to input doctor data.

Beranda Setting Akun	
	RIMAMEDISTRA
G	ood service for a better life
	Selamat Datang di Sistem Informasi Pendaftaran Klinik Prima Medistra
Selamat datang sidia Menu	Data Dokter
Data Pasien Data Dalitar	
Data Spesialis	ID Dokter : DK007
Data User	Nama Dokter : dr. H. Roni, S.p KJ, S.Kom
Transaksi	Alamat : Jepara
Data Pendaltaran	jenis Kelamin 💠 🖲 Laki-laki 🔿 Perempuan
Laporan Pasien	No. Hp 081887756567
Laporan Pendaftaran	ID Spesialis : SP006 Carl Spesialis
Logout	Hari Praktek : Senin - Jumat
Logout	Jam Praktek : 00.00 - 14.00
	Simpan Botal
	Promoted by 6

Fig. 9. Admin form manage physician data application help service and manage patient registration data of Klinik Prima Medistra.

4 Conclusions And Suggestions

4.1 Conclusions

- 1. From the results of the design and discussion of the resulting application of service aids and manage patient registration data Klinik Prima Medistra that can help facilitate the work of the admin / officer in charge of managing patient registration.
- 2. The existence of auxiliary application services and manage patient registration data Klinik Prima Medistra can accelerate the time required to register and manufacture medical card.
- 3. This system can provide services for patients in the form of registration information, medical practice schedule, list of poly specialist and queue number information and patient treatment card faster than ever before.

4.2 Suggestions

The application of services and management of patient registration data of Klinik Prima Medistra can be developed better such as the addition of new features in accordance with ongoing technological developments such as developed into mobile based applications as well as improved security for the system.

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