Simple Registration Software for Health Clinic

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Abstract. In this era, there are many people who lives on Earth. Many among them get sickness, for example influenza, cold, etc. Recovering the sickness they must go to a hospital or mini clinic. The focus of this research is how to solve to reduce the use of paper on a small clinic. Therefore, the small clinic has much outcome to cover the daily clinic operation. Usually small clinic the patients must fill a paper form to meet the doctor. Our research is to back up the paper-based fill form. We propose a new software using Visual Basic 2010. Our method use Visual Basic .NET 2010 programming language. Our research is to focus on Visual Basic 2010 to entry the patient's data to Excel automatically. The advantages of this software is that we can fill the data form directly to the computer and then save them to the computer. The saving format from the computer is Microsoft Excel Format.

1. Introduction

In this era, many people in the world would love to be healthy. Unfortunately, some of them have severe sicknesses. It will become a problem. Usually people solve those problem by using a medical treatment. In the form of herbal or medicine. Medical treatment using medicine is administered when they go to hospital. But for the first medical treatment, they can choose by themselves. They can go to small health clinic near the home. The registration for the medical treatment [1] usually require an ID card (Kartu Tanda Penduduk/KTP) and BPJS card. The registration takes four to six minutes to fill [2] the patient’s data. Inserting the patient’s data can be a photo, image fingerprint [3], etc [4]. To save time we propose a new software registration to fill the patient’s data to Excel on real time [5] by using Visual Basic .NET 2010 [6]. Visual Basic .NET is used on the another application and field. The registration is used for new student [7] for University [8] and new member of Aptisi [9].

This paper is consisted by six parts. They are Introduction, System Design, Methodology and The Result, Conclusion, Acknowledgement and References.

2. System Design

Our proposed scheme is by using the Visual Studio 2010 on Visual Basic .NET 2010 [10] as previewed on Figure 1 to make the software. This software is compatible to many platform. It is easy to use and has interesting GUI (Graphic User Interface).
3. Methodology and Result
After our proposed research had been designed, we made several experiment. This were the experiments. First of all, we opened the software (Visual Basic .NET 2010 and Microsoft Excel). Then we run them sequentially.

This is our flowchart process as seen on Figure 2. It describes the flow of working principle about the software. First, we open the software. After that we can see on the screen that there are columns for Nama, Alamat, Status, and Faskes Tingkat. The patient fills in his data to be collected by administrative staff on front office. The administrative staff then inserts the patient’s data to this software. After fulfilling all data, the staff click on “Tampilkan Saat Ini” button. It will show the present date and time. The date and time will be recorded manually by staff to the board note.
Figure 2. Process Flowchart

Figure 3. Software Registration Form
The software is consisted of ID, Nama, Alamat, Status, and Faskes Tingkat as shown at the Figure 3. The Figure 3 shows the based original form of our software. This is the authority of clinic staff to fill this form. There is the explain of the blank box of the software. The ID column is identified as the patient entry. The Nama column is name of the patient. The Alamat column is the address of the patient. The Status identities whether he is BPJS’s patient or general patient. At the last, Faskes Tingkat identify the health facility of the BPJS’s patient. The BPJS facility is consisted of several grade. This is shown on Figure 4.

![Figure 4. Software after filled out by data](image)

After that, we should click the button Tampilkan Saat Ini. This is indicate and show the time and date now below the “Tampilkan saat ini” button. This is shown on Figure 5. The function of this button is to record the patient registration and apply to the doctor. From this record, we as staff can know the patient’s time record. For the example, we know the patient named Wisnu always go to the clinic every week on certain days to his suffer of sickness.

![Figure 5. Tampilkan Saat ini on Software](image)

After that, we click the Save button to save the patient’s data to Microsoft Excel 2010, and when it is successful “Successfully” mark will appear on the software as seen in Figure 6. This is also indicate that the patient data has succeed to be recorded to the system. The system uses the Microsoft Excel 2010. The column is split into several column. The first column is the ID of patient, then patient’s name, then patient’s address, the patient’s status and the last is grade of BPJS facilities (for BPJS card holder only). If the patient don’t uses the BPJS it can be filled by strip symbol.
Figure 6. Entry Succesfully

After that, we shift to Microsoft Excel to see the result as shown on Figure 7.

Figure 7. The Record result on Microsoft Excel 2010

After above step, we can save it with another name. It can be one file for a whole day. The result on Microsoft Excel can be seen on Figure 7. It shows the collected data to the Microsoft Excel. This worksheet can be save every two hours, or every day. To keep this file safe, we need to make the back up data on the computer.

After that, back again to the Visual Basic .NET software again and press the Reset button, it will make all of the text blank again. So we can fill it with another patient, and just do like before.

4. Conclusion
From our research, we can make a conclusion that
a. The proposed scheme can replace the paper form on the clinic and the system design work effectively.
b. It will reduce the use of paper. It will reduce the cost of the clinic operation gradually. The paper can be used for another use.
c. It will make the patient data inserting faster than before.
d. The save data will be sequentially and up to date. It can be updated everyday. We can also distribute the patient and classify them.
e. It will be easy, to search for the history of a patient on that clinic.

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