**CHAPTER I**

**Introduction**

The Hospitals in current generation are using a manual method of assessing charting records of the patient which is the FDAR (Focus, Data, Action, and Response) which is the important documents of the patients to know his/her status and the including also the evidences of the patients record wrote in a compiled paper. Then the Group conducted an interview to gather some information in order to minimize the effort of all nurses and lessen the time consumed in writing a record of the patient in the paper, so we make a user-friendly system.

In current’s generation the human resource are engaged in highly computerized technology that aims to enhance the better technology that helps all the workers especially in the world of medication. The manual system is now considered as an obsolete, after the birth of the modern technology in computer system. Computerized charting of information about the patient and to keep it as the record of evidences. When we create an automated charting systems for it to become easier to find the files or the documents, to become much faster to submit and not needed to write it down. It can save time also and we considered it now as hassle-free. The most commonly system used by the hospital is to get also inventory of the supplies of medicine, to record, to put the profile of the admitted patient, and to schedule anything in the hospital, but one thing is manual the charting of the information from the patient to know the status whether if it is good or not. So we create an advanced and easy charting of FDAR from the patient that provide more reliable of recording and putting the data of the patient based on what the nurse observed to the particular patient. The one who’s able to use for that system is the one who authorized to perform an FDAR method.

The system is contained of different functions exclusive only for the workers who use FDAR chart, for them to secure their data perform, the system contain also accounts exclusive for the user of the system and it easy to the server to find the nurse’s submitted data from their patients after their shift, without finding the documents in their tables, compilers or folders just to find the data issued from the patient for example. Just search the name of the patient to the server to see the details about observation of his/her nurse to his/her conditions, it can see also to the server who is the person who submitted that FDAR documents and other information about to it.

Automated Charting System is helping the workers of medication in nice and easiest way to chart their observation from their patients. This system also is connected to the other system exist in the hospital like for example the system about getting the information of the patients when they’re being admitted to the hospital, also looking for the schedules of the patients in operation or medication, it is also connected to the what the patients need to take medicine, foods, or background studies.

This system also helps to create a surveys on how many people who got sick of that kind of sickness and knowing whose the largest result of the kind of sickness in this year based on what source of data they gathered, it helps to the hospital to prepare a large amount of supplies for that kind of sick or to find a medicine for it. The system also helps the admins to monitor their workers if they really submitting of their FDAR charts to their patients.

This system is aiming a high and advanced in performance of all nurses in the hospital, and to grow the integrity and standards of the hospital when it comes to their charting system that deals with recording necessary detailed on every person to have respect for the hospitals who undergo in this system. The problem in the manuals charting is time consuming and creating any hasslement probably when they need to shift early in some cases.

Using computer based system it allows for much greater and easier way to get the standards when it comes to operating of any systems like this charting of FDAR. The encourage ease of interaction between nurses and hospitals including their patients. This also allow for consistent experiences in terms of standard operations using technology creating relationship between patients and other medical workers to enhance the quality of their services to them.

An Automated Charting System is a system which you can focus to take some free time for the workers, also for the patients not to be stressful by asking their information about, just you need only to do it very well without doing any wrong deeds because it reflects to person or workers itself. This computer based with the server, hopefully with android just to view the information of the patient or the status of it if they’re fever is still noted or not, or if they’re can be go home or to stay for days for continuous medication.

The purpose of the proponents develop system is to help the workers of medication in nice and easiest way to chart their observation from their patients. This system aimed to become easier to find the files or the documents, to become much faster to submit and not needed to write it down. It can save time also and we considered it now as hassle-free. This system helps to the hospital to prepare a large amount of supplies for that kind of sick or to find a medicine for it. It also helps the admins to monitor their workers if they really submitting of their FDAR charts to their patients. This system is aiming a high and advanced in performance of all nurses in the hospital, and to grow the integrity and standards of the hospital when it comes to their charting system that deals with recording necessary detailed on every person to have respect for the hospitals who undergo in this system.

**General Objectives:**

This study aimed to develop an Automated Charting System to enhance the system of charting in Focus, Data, Action and Response. It is also aiming a high and advanced in performance to all nurses in hospital.

**Specific Objectives:**

1. To develop of Charting Automation.
2. To develop patient record.
3. To create a monitoring patient condition system.
4. To create responts of patients record disease.
5. To evaluate the system in terms of :

* Portability
* Usability
* Functionality
* Effeciency
* Security
* Reliability

**Scope and Limitation**

This study will focus only in the development and enhancement of the FDAR charting system which will be conducted to any Hospitals that use FDAR charting. The system can store, update, record, view the information of the patients and they’re conditions also the nurse who assigned to the particular patient. There you can put first the information of you patient and when you pass the FDAR chart is you need to check the patient’s condition second and do the response to it by putting it to the computer and submit before you timeout the shift, to ensure the safety of the patient before you leave him/her.

The user can also log in and log out his/her account after using the computer in recording the FDAR from the patient during work hours to ensure that you submit your FDAR observation from your patient using your account for the server to recognize you.

Then the server must check now if you’re really submitting FDAR chart to ensure also the safety of the patient before you leave him/her.

This system is only intended for recording or charting medical records, no other than uses except for medical entities.

**Significance of Study**

The significance of this research for the FDAR charting of any Hospitals which is the chart they currently use is to keep and develop the standards in doing the system process of FDAR charting manually into automatically, and easily to record those data and keep track to the patient’s condition, security, and safety.

* **Admin** - they need to do is to gather all the data or all FDAR documents submitted by the nurses, and keep it for more purposes like, if the customers have complains or looking for evidences, or keeping the records of all sickness that they need to take action to less that cases of problems, also for giving any surveys about the information or response they receive to their nurses, and to monitor their medical workers that they really submitting their FDAR of the patients before they leave their patients.
* **Nurse** - will not having a hard time to write their FDAR statement and observation to the patient, all they have to do is to open the computer input their user and password to ensure that FDAR is yours and you’re the one who is responsible for that, then select items which is the data that they’ve seen based on their observation to patient, then submit it to their head admin which is the also authorized for the server accordingly to what department they are.
* **Doctor** - the doctors can guide their workers about telling to them the patient’s conditions, so they can easily make a report for their patients.
* **Researcher -** this study is an additional exposure on the part of researcher to advance thier skills in creating research paper, programming etc., and making this as one of their credential in the future purposes.
* **Future Researcher** - result of this study will offer significant information to future researcher in conducting similar studies covering other variables that are not contained with in.This study could serve as reference for future undertaking.

**Definition of Terms**

These terminologies were gathered by the researcher for better and clearer understanding of the study.

**(A) Action** – In this study, this term refers to what the nurse/ward do, if they operated him/her or he/she give only the patient of prescribed medicine.

**Admin** – In this study, this term refers to a person who manages the server and the keeper of data of the FDAR chart of the Hospital.

**(D) Data** – In this study, this terms refers to the data who’s given by the patients in statement form about his/her fever.

**(F) Focus** – In this study, this terms refers to the patient’s sickness or complains to his feelings.

**(N) Nurse** – In this study, this terms refers to the one who is intended to use the FDAR Charting System by recording and submitting the data that they observed on the patient’s condition.

**(P) Patient** – In this study, this terms refers to the person is the reason why the hospital is doing FDAR chart, because it is the observation that comes from the patient.

**(R) Registration** – In this study refers to the system that stored data of the person who wants to make accounts to FDAR.

**Response** – In this study, this terms refers to the final observation of the nurse/ward whether the “Fever still noted” or “Fever still not noted”.