

CHAPTER 1: INTRODUCTION

DESCRIPTION OF THE PROJECT

This project is about the management of the sickler patient. This project is going to keep the records or details of the sickler patients once they will be diagnosed that they have affected by sickle cell. After that the patients will be registered in the system, and they will be given the user credentials which can help them to access the mobile app. Through the mobile app patient or assistant of the patient will be notified or reminded on the medical schedule (the right time to use the medicine) so as to have regular use of medicine, the day and time to attend clinic for more checkup and also the guidance on the type of meals to be taken by a patient including fruits and drinks so as to improve the health condition of the patient.

In this project, the sickler patients and the community in general will be given the education on sickle cell problems. Also in this project there should be a direct conversation between the patient or assistant and a doctor or nurse so that they can share some idea on sickle cell problems. Also if there is an emergency occur the patient or assistant of the patient can be able to consult the doctor or nurse

In this project there should be the platform in which the people around the community will be able to share their idea, experience and consultations, so that to make the community aware on sickle cell problems.

PROBLEM STATEMENT

- a) The investigation has been done at Mnazi mmoja hospital in Zanzibar and also to the parents whose children have been affected by sickle cell problems. Currently the sickler patient in Mnazi mmoja hospital are registered once they will be diagnosed they have been affected by sickle cell. Then the patients are given the date to attend the clinic and medical schedule on the right time to use the medicine and the types of meals to be taken by a patient so as to improve his or her health.
- b) The main problem identified is poor care or assistance of the sickler patients. But there are minor problems which form the main problem, these including the following
 - i. Irregular attending the clinic for the required day and time.
 - ii. Irregular usage of medicine assigned by a doctor.

- iii. Poor education or awareness concerned the sickle cell problems, means that people in the community are not aware on this problem.
- iv. Poor traditional believes (superstitious believes) basically in our community. There is less sharing of idea, experience and consultations on sickle cell problems among the people in the community.

PROBLEM SOLUTION

For the first time the patient will be checked up by a doctor, if the sickle cell problem is diagnosed the patient will be registered specifically as sickler patient. Then the patient or assistant will be able to access the mobile application so as to be reminded on the specific date and day to attend clinic, and also he or she will be reminded on the medical schedule regularly, means that they will be reminded on the right time to use the assigned medicine .There should be a direct conversation between a sickler patient and a doctor or a nurse so that a patient can ask help from the doctor or nurse at any time if required. Also in this project there should be a platform where the people in the community can share their idea, experiences and consultations so as to be aware on sickle cell problems and their effect in the community.

PROJECT SCOPE

The scope of the project is as follows:

The doctors and nurses are registered by the admin in order for them to be able to access the system.

Once the nurse is registered he or she will be able to register the patients who have been diagnosed that they have sickle cell problem, so the nurse will keep the record of each patient and the respective disease. Also nurse shares the patient data or information with the doctors so that a doctor can access the patient data or information.

When a patient is registered he or she will be able to have a mobile application.

After being registered a doctor will be able to perform checkup to a particular patient, also a doctor will assign the medicine or medical prescriptions to the patient so that the patient can use them.

A doctor is able to write the checkup result or clinic checkup results for a particular patient since they conduct different checkup to the patients. Also doctor gives the guidance to the patients on the type of meals to be taken by a patient and the style of life in which a sickler patient are supposed to live in order to improve their health.

A doctor will be able to write a report based on the sickler patients and their trends

A doctor will be able to print prepared reports

There should be a direct conversation between a doctor or nurse and a patient in which a patient can be able to ask the help if necessary during the time of emergency.

A patient will be able to view the medical prescriptions and the medical use schedule.

A patient will be able to view a routine guidance basically for the meals to be taken and the meals not to be taken.

A patient also will be able to view the clinic attending schedule for a regular attending of the clinic

A patient will be able to view the clinic checkup report.

There should be platform where the people in the community can share their idea, experience and consultation based on sickle cell problems.

In this project there should be provision of education concerned to the sickle cell problems based on symptoms, nutrients to be taken and treatment, so that the community can be aware of sickle cell problems.

MAIN AIM AND SPECIFIC OBJECTIVES

- i. To improve the performance on regular attending clinic
- ii. To provide education based on sickle cell problems so as to make people aware of this problem.
- iii. To improve proper usage of medicine regularly.
- iv. To improve the health and to encourage the people affected by sickle cell in which most of them are children

PROJECT BACKGROUND AND MOTIVATION

MOTIVATION: Honestly, this project is very important and worth to do it because the sickler patients will be reminded and notified on the time schedule, and also they will be reminded on the date and day to attend clinic for further checkup through the mobile application. And also the people in the community will be educated and become aware of sickle cell problems since they will share their idea, experiences and consultations.

BACKGROUND: In the past there is no any system designed to be used in mnazi mmoja specifically on the sickler patient management. Currently there is related system in mnazi mmoja which is used for all diseases but not specifically on the sickle cell problems

FEASIBILITY STUDY REPORT

Operational Feasibility

- i. There is high management support toward this project that is proposed and to be developed.
- ii. The system will be user friend and will be not difficult to interact with this system, So honestly the user gives their support to this system because is going to bring a lot of benefits to them and organization as well.
- iii. Honestly our system is not going to affect the workforce, the employee will continue to perform their duties as usually but they will simplify and make accuracy of those duties through the use of the information system.
- iv. Before install this system or software the users will be trained on who to use this system because most of the staff have no enough idea about the use of computer and the information system
- v. There is good involvement of the users in the new system because now they are aware on this system and they realize that this system is going to help them.

Technical Feasibility

- i. An organization has necessary hardware and software and network resources for this system.
- ii. An organization needs the technical experience so as to be able to interact with this new system because is going to perform the important operations.
- iii. This proposed system has a sufficient capability and can perform different tasks or activities effectively and efficiently.

- iv. The hardware and software environment will be reliable and this system will not integrate with other companies information systems.

Economic Feasibility

- i. The new system will bring benefits since the actual cost do not exceed the estimated cost.

Legal Feasibility

- i. There is no any difficult in developing this new system. So the system is legal.