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The Quick Software Development Team

QSDT

Kidest Mariam Clinic patient management system

KMCPMS

# Introduction

Kidist Mariam clinic is located at Goro, Addis Ababa, Ethiopia. The clinic has been founded by Dr.\_\_ and Dr. \_\_\_ in \_\_\_\_\_\_. The clinic provides OPD, Imergency, lab, and minor oprations to patients 24 hours and 7 days of a week. The clinic has two dedicated doctors a lab technitian a reception and a nurse. The clinic reports daily for disease like Covid based on probable or its assurance. They also do weekly report on patient statistics. In addition there is a quarterly patient statistics report based on prevalence of the disease, sex, age and case. At the moment the clinic manages its patients data on a paper based system

# Problem statement

The clinic after doing business and keep track of patients on a paper-based system, it has decided to change the current system to an electronic system. And therefore, the former way of doing business has been regarded as a problem. These problems might be lose of documents of patient and routine and repetitive activity to produce the reports.

# Objective

## General objective

The object of the project is to analyze, design and implement a web based application that can track patients health progress and do daily, weekly and monthly reports.

## Specific objectives

* Gather requirements
* Analyze and find out stories for the actors in the system
* Choose an implementation technology for front-end and back-end
* Choose a hosting company based on technology support and price
* Design the database
* Implement back-end or API for the system
* Implement the front-end as per the technology chosen
* Deploy the system
* Train the users of the system to assure the success of the project

# System analysis

In the proposed electronic or computer based system there are 5 actors which are, doctor, receptionist, the nurse, lab assistant and patient. As the team gathered the requirements of the system it has been found that only 3 of the actors has a direct interaction with the system. These are doctor, nurse and lab asystant. The following few paragraphs outline each of the actors stories in the system.

## The nurse Young nurse guiding information with the hand | Nurse ...

1. Nurse meet the patient
2. Nurse finds out if the patient is new or existent
3. Nurse will continue in one of the following two options

|  |  |
| --- | --- |
| existent | new |
| * 1. nurse will search the patient in the system using name or card no   2. nurse will label the patient as OPD or Emergency   3. nurse will dispatch the patient to the doctor | * 1. the nurse will register the patient with all necessary information   2. the nurse will then label the patient as OPD or Emergency   3. nurse will finally dispatch the patient to the doctor |

System design

System implementation

Conclusion