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Clinic Management Software

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Abstract: This inventory management system keeps all records and transaction details for a particular clinic. User can handle this project by using a single screen through using its different menus and submenus.
A clinic inventory has to deal with various fields and sections along with different modules. So, to make it simple so that user can handle this project in a simple way.
When the patient will visit on clinic, they will ask to provide their name, address, sex, age and type or problems. As this system will have built in feature that will assign the doctor by taking their type of problem as their input. After entering these fields, user will provide with a registration slip including their name, address, sex, age, name of doctor and chamber number. Each registration form will have unique registration number, arrival time of patient. The doctor will prescribe medicines using patient registration number. For taking medicine user have to give their registration number to the clinic medical shop, where they will get all the medicines.

Keywords- Clinic Management, Medicine

I.INTRODUCTION

Clinic Management Systems are computer software products that coordinate and integrate all the inherent activities involved in the management and running of a healthcare facility. They must meet specified security, technology and functionality standards for managing electronic medical records and practice management information.

Some systems maintain the complete Patient Information coupled with the Electronic Medical Records (EMR), Medical billing, technology & functional standards.

Clinic management system, is created to computerize manual operations in clinics. The primary purpose is to digitize patient records so as to make data retrieval easy and efficient. Economically, clinics benefit from constant cost savings as a result of increased productivity and overall efficiency. This project will help to remove unnecessary human errors from their daily activities.

II. RELATED WORK

There are few software programs mainly designed for hospital, we designed this software to make the better interaction between receptionist, doctor and pharmacist more ease, we referred "MEDEIL Pharmacy Management system 1.0".

III. METHODOLOGY

This Clinic-ware inserts, updates the quires in SQL Server from the Database by the help of SQL server.

The reason behind this program is to simplify the data entry to the receptionist at the counter while registration of the patients.

As the Patient enters the clinic, they go to receptionist and they give their detail like name, age, weight and other details. The receptionist's computer is equipped with windows form which helps to enters the details into the Database and returns a token number to the receptionist's computer and receptionist to patient.

The patient waits outside the doctor's cabin until the next call, the doctor will be prepared to examine the patient because the patient's history is available in the screen.

The doctor examines the patient and updates the patient report also including the medications to the Database.

While exiting the clinic the patient receives the prescribed medicines from the pharmacy. The pharmacist checks the Database and provides the prescribed medicines

Program Modules

3.1.Reception Module:

In this module the receptionist can enter the details of patients like name, age, weight, blood group, gender…. Etc.
Receptionist will can also view the details of all the patients in the grid.
Once the patient is registered, the details can also be altered using the update button.
The automatic ID/Token will generated and Receptionist will give it to patient
Can also view the number of patients remaining through grid view

3.1.1.Receptionist to register a new patient

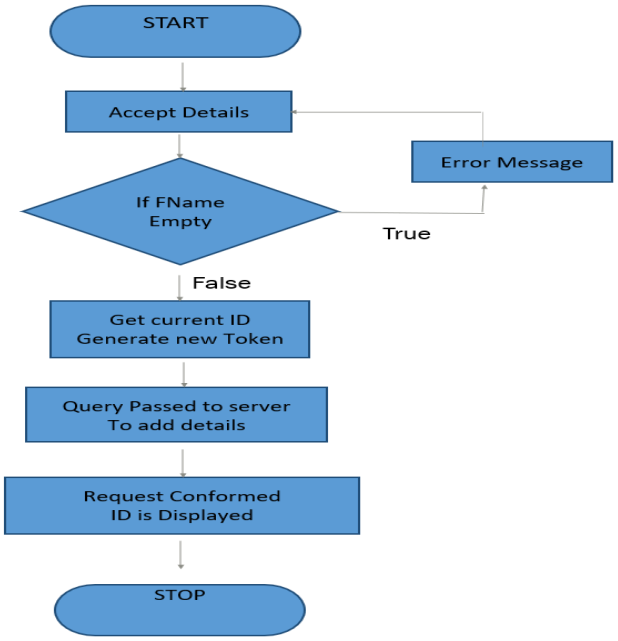

Fig.1

3.1.2.Receptionist to alter patient detail

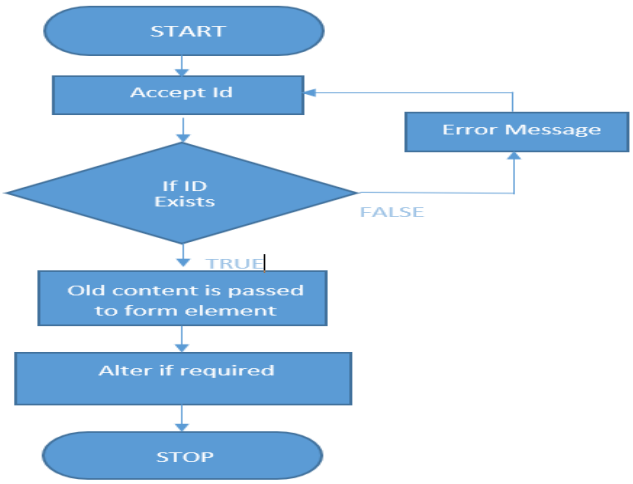

Fig.2

3.1.3Receptionist to remove patient

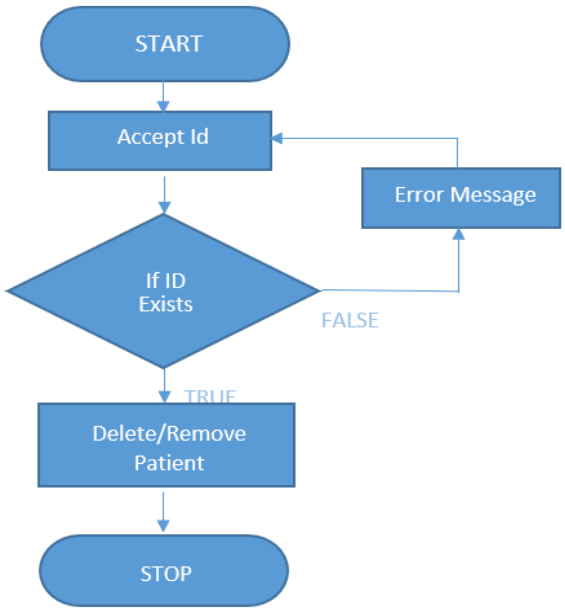

Fig.3

3.2.Doctor Module:

Before patient enters the doctor's, cabin doctor can know the basic details of patient like id, name etc. Doctor will be knowing the number of patients waiting outside the cabin.
Doctor can enter the medicine into database and pharmacists will retrieve it easily There will be no handwriting problem
Doctor can also know the number of patients he has been examined

3.2.1Doctor module: inserting data

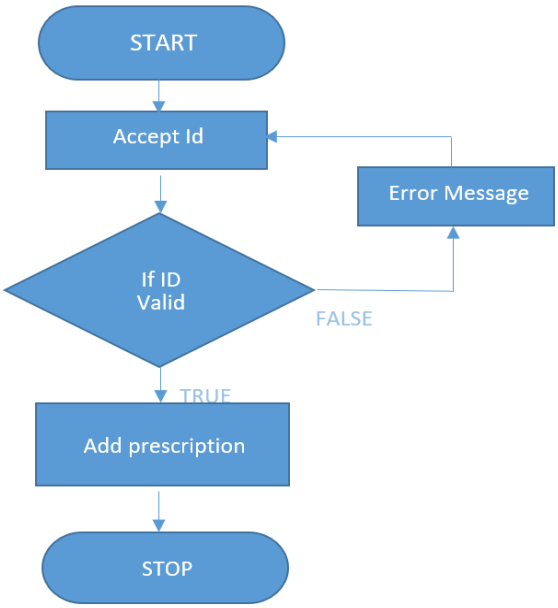

Fig.4

3.3.Pharmacists Module

The pharmacists will enter the id of patient and retrieve the prescribed medicines and the quantity entered by the doctor to the patient and he will receive the amount of medicine. The pharmacist will not get any private details of patient.

3.3.1.Pharmacists Module

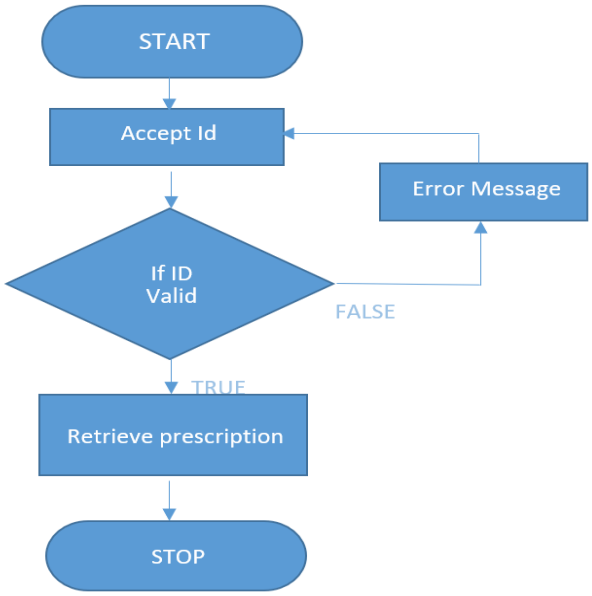

Fig.5

IV. IMPLEMENTATION

System specification

Hardware Requirement:

Minimum 3 PC/Laptop
Minimum 1GB RAM
RJ45 Cables or Wireless interface for connection
Mini Switch

Software Requirement:

Operating System : Windows 7/ 8/ 8.1
Programming language : C#
Backend Server : Microsoft SQL Server Management System
Code created on : Visual Studio

4.1.1.Receptionist to register a new patient

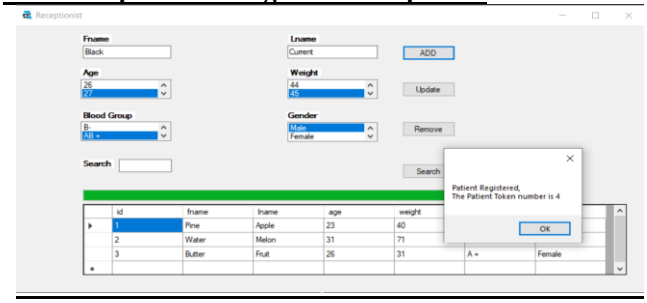

Fig 4.1.1

The Reception will enter the details of patient into database

4.1.2.Receptionist to alter patient detail

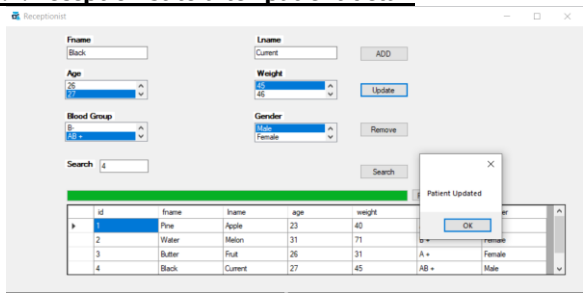

Fig 4.1.2

He/she can update the patient details by searching them using ID number.

4.1.3.Receptionist to remove patient

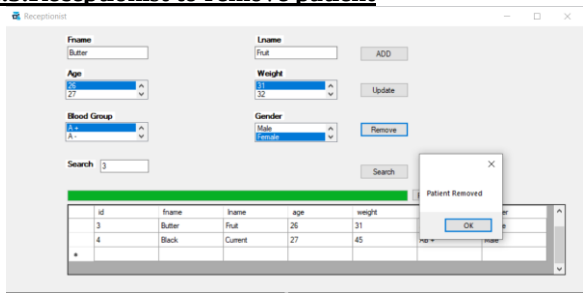

Fig 4.1.3

The receptionist can also remove the patient details in case of the patient decides to cancel the appointment.

4.2.1Doctor module: Searching record

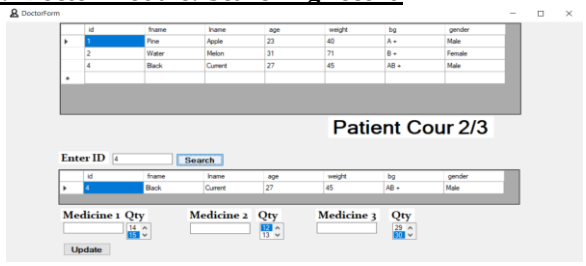

Fig 4.2.1

The doctor has to search the patient using the patient's token number.

4.2.2.Doctor module: Adding Prescription record

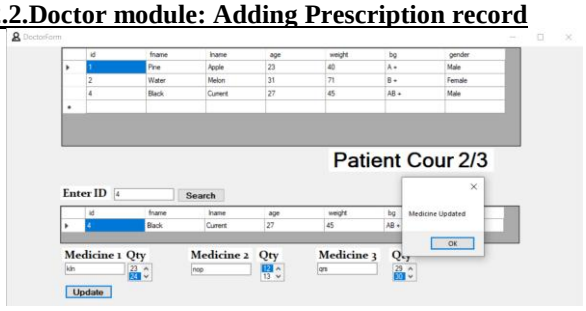

Fig 4.2.2

They examine the patient and the prescriptions and quantity is entered to the database.
They will also know the count current patient and the total patient in real time

4.3.1.Pharmacists Module: Retrieving prescription

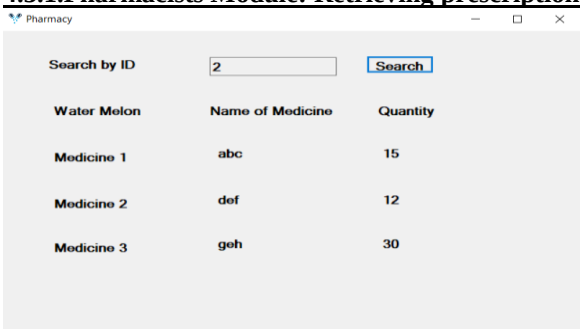

Fig 4.3.1

The pharmacists will retrieve the medicine from database which is been entered by doctor.

V. CONCLUSION AND FUTURE WORK

Now we are providing login to only one doctor further we are trying to provide it to multiple doctor Right now, the database can only be accessed only in LAN further we will provide access to the database all over the world for remote access.
Currently the server only supports for windows 7,8 and 8.1 platform in the future we will make it support for Windows 10. We will retrieve the history of the patient.

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