

EASY HOSPITAL MANAGEMENT SYSTEM

Ankesh Jaihind Patel

Prof. Umesh Anandrao Patil

D. Y. Patil Technical Campus faculty of Engineering & Faculty of Management, Talsande

Abstract

The main problem doctor is facing in that is writing the prescriptions is more time consuming. This will lead problems for both the patients and doctors as they won't have the record history or medical history. Sometimes when the doctor and the patient cannot meet in because of some unavoidable circumstances then there is no exchange of physical prescription which becomes a barrier for a patient to get medicines at the right time and the doctor can't recall which medicine he was given to him and it was big issues for doctor.

Keywords: Medical History, Patient Details, Documents, Hospital Management.

I. Introduction

The project Hospital Management system includes registration of patients, storing their details into the system. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id. My project Hospital Management System include registration of patients, storing their detail into the system and also computerized. The hospital also keep the information of the employees. Management and information system, which may keep the record of each patient, employee and medicine. This is a software system that incorporates various factors needed for smooth working and management of a hospital. This hospital management system allows administrator to store and manage various resources according to patients and doctor's requirements. The project is developed to eliminate human efforts in managing hospital records and data manually. The system also stores the patient data in a well-defined manner. The patient details include his name, number, address and various health parameters and resources being used by them. It also maintains all doctors information working in the hospital like his personal details, salary and the patients assigned to them. The system even calculates the bill of patient according to treatment taken and number of days of stay.

II. Problem Statement

It is very important to maintain efficient software to handle information of a Hospital. This application provides away to record this information and to access these in a simple way.

Objectives

1. Make all the system computerize.
2. Reduce time consumption
3. Reduce error scope
4. All system managements are automated
5. Centralized data base management
6. Easy operations for operator of the system.

Architecture

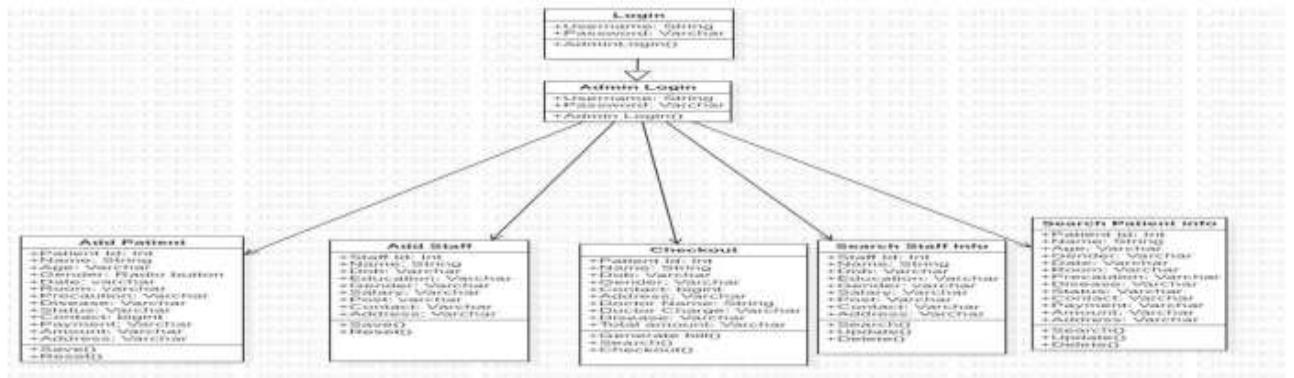


Fig 1: Proposed System Diagram

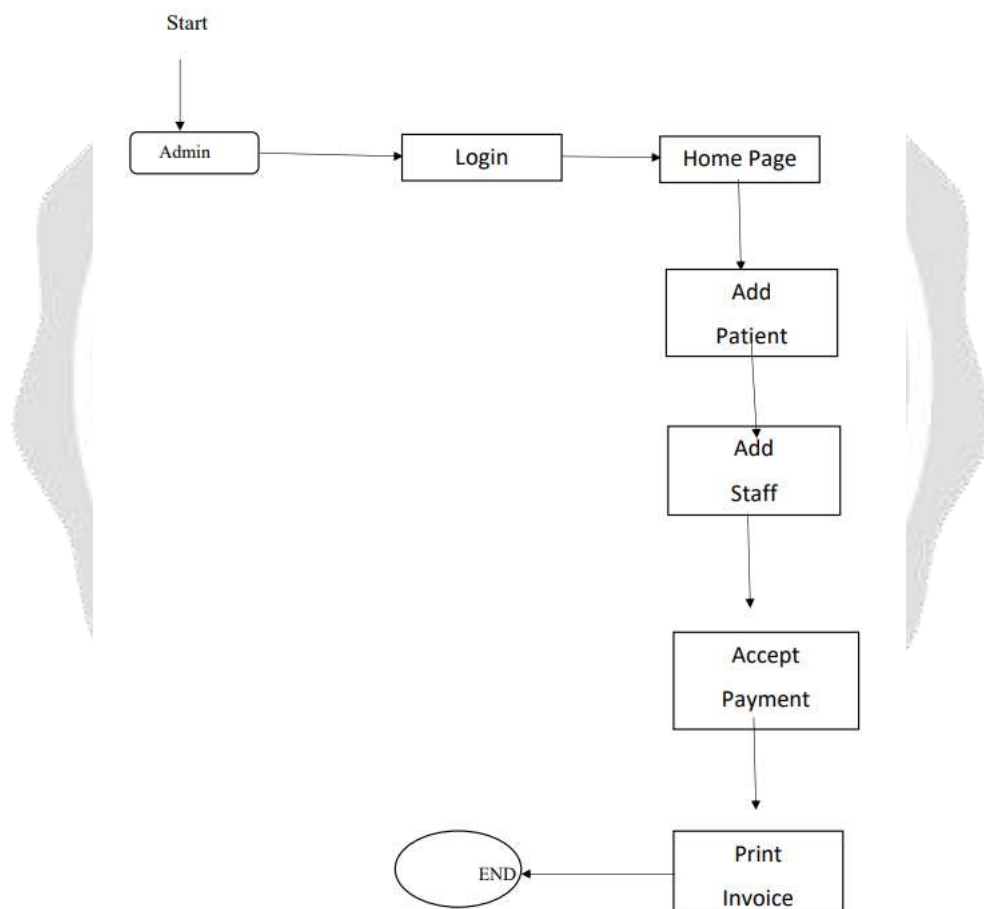


Fig 2: Dataflow Diagram

IV. RESULT AND DISCUSSION

1. Login Module – This module records only user id and password. This module is only used by administrator or receptionist.
2. Patient Module – It keeps track of all details of both in-patient and outpatient. Patient id, name, date of birth, gender, city name, state name, phone number, doctor id are entered in a form and stored for the future

reference. Also, particular patient detail can be view in the table using a separate form with an attribute patient id.

3. Billing Module-

The patient billing module handles all type of billing for long term care. This module facilities cashier and billing operation for different categories of patient like out- patient and in-patient. It provide automatic posting of charges related to different services like bed charges, lab tests conducted, medicines issued, consultant's fee, food, beverage and telephone charges etc

4. Staff Module –

It keeps track of all details of Staff. staff id, name, joining date, gender, address, phone number are entered in a form and stored for the future reference. Also, particular Staff detail can be view in the table using a separate form with an attribute Staff id.

5. Data Design:

Data design is the first design activity, which results in less complex, modular and efficient program structure. The information domain model developed during analysis phase is transformed into data structures needed for implementing the software. The data objects, attributes, and relationships depicted in entity relationship diagrams and the information stored in data dictionary provide a base for data design activity. During the data design process, data types are specified along with the integrity rules required for the data. Database design involves Classifying data and identifying interrelationship between the data Software contains mainly 5 tables namely Patient Registration, Patient info ,Staff Registration , Staff Information, Checkout. In Patient registration table there are 13 columns in which the patient registration table contain PID, Pname, ppage, ptgender ,ptdates, ptdisease, ptstatus, ptroom. ptcontact, ptaddress, ptamount.

Requirement Analysis

Hardware:

1. RAM: 2 GB
2. Storage: 8 GB
3. Mobile – Android 5+ OS

Software:

1. VisualStudio2019 (For Frontend)
2. MicrosoftSQLServer2019 (For Backend)

FEATURES

1. Easy Checkout.
2. Easy admitting.
3. Proper Mangement.

CONCLUSION

An attempt is made in all its earnest towards the successful completion of the project the system is verified with valid as well as invalid data. The system is user friendly since it has been developed in visual studio 2019 a successful GUI environment. since the connections can be extended to any database The control will be more powerful. Upgrading the system if may can be done without affecting the current proper functioning of the system. Although I have put my best efforts to make the software flexible, easy to operate but limitations cannot be ruled out even by me. List of limitation which is available in the Hospital Management System. In my software the patient details print manually.Since Software is Desktop application so client cannot place their online or at their home and unfortunately client have to visit hospital in any case.

REFERENCES

To prepare this project we required information regarding how to develop efficient & proper software on library management system