

MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____
(Filled by the Department)

Academic Year : 2021- 22

Year of Admission : 2020

1. Title of the Project : Clinic Management System
2. Name of the Guide : Muhammad Jabir C
3. Student Details (in BLOCK LETTERS)

Name

Register Number

Signature

SOORAJ M

MES20MCA-2052



Date: 16/04/2022

Approval Status : Approved / Not Approved

Signature of
Committee Members }

Comments of the Guide

Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator

Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

CLINIC MANAGEMENT SYSTEM

SOORAJ M

Introduction:

Clinic Management System will be used to support and automate the daily operations of a clinic. This system will involve all the clinic operations from patient registration until billing. The patients will be able to register online for their appointment. They will know when and at what time the doctors are available. This system helps to reduce the problems that occur when using written records. This system stores all the patient details, patient treatment history, billing, and medicine details. It enables the clinic assistant to manage patient records, medicine stock, appointment and to produce reports. Here data can be recorded and retrieved easily. The patient gets the treatment and data about the treatment is recorded into the system, which will make it easier for the retrieval of treatment history of the patient. This will also make it easier for the doctors to know the prescribed medicines and the treatment that the patient has received before and can treat them according to that information. This prevents accidental loss of the patient's treatment records and their details. This will also keep track of each medicine which is available in the clinic. If any medicine becomes out of stock, then that medicine's name will be notified. This system also helps in the online delivery and payment of medicines.

Objectives:

The objective of this project is to automate the clinic daily operations by leading the clinic to operate in effective and efficient way throughout the help of the system so that they could eliminate the paper work that originally happened in a clinic. This system is very beneficial for the clinic assistant, doctor and patient. The system can generate report according to the user requirement. It will store the complete patient record which will make it easier for the retrieval of history information of the patient. The system will make it easier to maintain the record of patient, doctor and medicine. This system will overcome the problems that occur while using written records. It will help to reduce the number of lost records for the patient. Patient need to register before to use the facilities of the clinic. As all the information will be keep in the database, the clinic assistant can easily retrieve back the record of existing patient and doctor may view the patient history. This system manages all the medicine stock in the clinic. It will show current quantity of medicine in the clinic. The system will display if the medicine is running out of stock. This system also helps in the online delivery and payment of medicines. This system also manages the appointments of the patients. The system may generate report for the daily operation of the clinic.

Problem Definition:

Clinic Management System is being designed so that the working will become easier, faster and more reliable than before. It is useful for the user because the system has benefits that can help the operation of the clinic. The patient has to register first to use the facilities of the clinic. If the patient never registered before, the patient information is collected and stored in the database. However, if it is an existing patient then their details are searched using the registration number provided to them. This will improve the record of the patient and save the time. The patients can book appointment online. The system shows the time slots available and the patient can choose their desired time slot for the appointment. If they are unable to come the day, they made the appointment then they have the option to cancel it too so that the doctor need not wait for them and if any other patients want to book at that time they can do so. The treatments history of the patient is stored so that the doctor can refer it whenever needed. Thus, the doctor will be able to know the medicines that are prescribed earlier to the patient and can treat them according to their treatment history. If the patients are consulting a new doctor, then that doctor will also be able to know the what and all treatments the patient has taken before. Only authorized user has the right to retrieve data of the own. This will secure the patients information. The doctor can prescribe medicines to the patient using this system. The clinic assistant will view the medicines prescribed and prepare the bills for the patient.

When the bill will be provided to the user, it provides all the details of each medicine which they have purchased. Then the clinic assistant will update the medicine stock and patient record will be kept in database. Also, this system notifies the clinic assistant if any medicine is running out of stock. The Patients can view the details of the medicines that are available in the clinic and can order the medicines they want. The patients will also be provided with an option for making payments online. This system allows the delivery of medicines to the patients.

Basic functionalities:

1. Clinic Assistant :
The clinic assistant is the admin of the clinic. Clinic Assistant can login to the system after entering the username and password. The Clinic assistant controls the overall functionalities of the clinic.
2. Patient :
The patients are the users of the clinic. The user has to register first to make appointments. They can view the doctors, time schedule and available time slot for appointment.
3. Doctor : The doctor has to login using their username and password. The doctor can view the patient details, their treatment history and appointments.

Major functions of Clinic Assistant are:

- Login
- View patient details
- Add or update medicine stock
- Add or update doctors
- Provide time slots for patients
- View Report and Appointment
- Manage Payment details
- Billing
- Delivery

Major functions of Patient are:

- Register and Login
- View treatment history
- Make and cancel Appointment
- View and order medicines available
- Make Payment

Major functions of doctor are:

- Login
- View or Update treatment history
- View Appointments
- View Medicine details

Tools / Platform, Hardware and Software Requirements:

Hardware requirement

- Processor : Intel Core i3 and above
- RAM : 4GB
- Storage : 500GB Hard disk 2.5.1.2

Software requirement

- Operating system : Windows 10
 - Front end : HTML, CSS, PHP
 - Back end : MySQL
 - IDE : Visual studio
 - Web browser : Internet Explorer/Google chrome/Firefox
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