East West University

Department of Computer Science and engineering

Project Report

CSE:411, sec-03

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**Title:** Hospital Management System

**Introduction:**

Providing best medical facilities to people suffering from various ailments, which may be due to change in climatic conditions, increased work-load,emotional trauma stress etc. It is necessary for the hospitals to keep track of its day-to-day activities & records of its patients, doctors,nurses, ward boys and other staff personals that keep the hospital running smoothly & successfully.

But keeping track of all the activities and their records on paper is very cumbersome and error

prone. It also is very inefficient and a time-consuming process .Observing the continuous increase in population and number of people visiting the hospital. Recording and maintaining all these records is highly unreliable, inefficient and error-prone. It is also not economically & technically feasible to maintain these records on paper.

Thuswe have developed an automated version of the manual system, named as “Hospital Management System”.The main aim of our project is to provide a paper-less hospital.It also aims at providing low-cost reliable automation of the existing systems. The system also provides

excellent security of data at every level of user-system interaction and also provides robust &

reliable storage.

Our Software is for the automation of Hospital Management. It maintains two levels of users - **Administrator Level** and **User Level**. Registration, Providing Prescription, Create Appointment, Give Feedback are the parts for a patient. A doctor can change his/her password, provide prescription, view own appointment list, Search medicine (company or compound) etc. Add another admin, add doctor, view feedback (given by patients) are the parts for admin.

This hospital management system is a self-contained system that manages activities of the hospital as admin, doctor and patient info. Various stakeholders are involved in this system.

**Objectives of the system:**

* To computerize all details regarding patient details & doctor details.
* Scheduling the appointment of patient with doctors to make it convenient for both.
* It should be able to handle the prescription and feedback of patients
* Information about medicine should be kept.
* The information of the patients should be kept up to date and there record should be kept

in the system for historical purposes.

**Requirement Analysis:**

Requirement analysis including two parts-

1. Functional Requirement:

* Login (No user can use this system without login)
* Add User (An admin can add different user)
* Change Password (Admin, doctors can change their password)
* Add Doctor (No doctor can be added without admin)
* Register (Patient can register and create account to this system)
* View Doctor Info (Patient can be find any information of doctor)
* Book appointment (patient can booking for appointment)
* Cancel Appointment (patient can cancel the appointment)
* Provide Prescription (Doctor provide a prescription)
* Search Medicine by company name or compound (doctor can search medicine)
* Logout (must have to logout)

(2) Non-Functional Requirement:

* System should be developed in php.
* Improve Response Time (for better performance) .
* Keep Backup data (what if original data id destroyed).
* No one can access the system without login.
* Only admin can add doctor and another admin.

**System Diagrams:**

1. Use case Diagram
2. Class Diagram
3. Sequence Diagram

**Limitation :**

* The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
* Training for simple computer operations is necessary for the users working on the system.

**Future work:**

* We can add receptionist part .
* We can also generate different lab test result.
* In Future, we will add different test report generation part and will keep a payment option.
* We can enhance this system by including more facilities like pharmacy system for the stock details of medicines in the pharmacy.

**Conclusion:**

The project **Hospital Management System** is for computerizing the working in a hospital. It is a great improvement over the manual system. The computerization of the system has speed up the process. In the current system, the front office managing is very slow. The software takes care of all the requirements of an average hospital and is capable to provide easy and effective storage of information related to patients that come up to the hospital.