

IMS PROJECT DOUCEMENTS PART

1) **Names of Group Members:** -

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2) **Batch Information:** -

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3) **Title:** -

Hospital Management System

4) **Introduction:** -

Healthcare is one of the most important sectors of our society and hospitals are the key elements of this crucial sector. The manual handling of data in hospitals is highly prone to errors and is time-consuming at the same time. As hospitals are institutions that deal with a multitude of people every day, it becomes very difficult to manage this data efficiently. Hence, there is a need for an automated system that would ease the overall functioning of a hospital. A hospital management system is a web-based application that integrates information concerning patients, doctors, administration, etc. into one single platform that would help in the smooth functioning of a hospital. This automated system would make the whole process paperless, reduce the costs, improve patient care and quality as well as reduce the time that is consumed by the traditional system.

The system proposed by us would help in managing the day-to-day activities in a hospital such as appointment booking, billing, etc. The system would provide different logins for administration, doctor, and patient. The user would have to enter their user id as well as password to access the system. The administration would be able to access the entire information related to patients

such as appointments, bills, etc and can add or modify the same. The administration would also be able to manage the details of the doctors working in that hospital.

The patients would be able to book their appointments with the doctors and would also be able to view their previous treatment records. All these processes would be computerized which would make it easier to manage as well as to retrieve the data as per the requirement.

The main focus of this project is to digitalize the details related to the patient and the hospital. By using this system, hospitals would be able to provide a better experience in terms of security and accessibility, to the patients who would be visiting the hospital.

5) **Problem Statement:** -

In hospitals, the public usually comes across situations where there is a delay as the result of hefty paperwork. This issue is more common in government hospitals where a great deal of time is squandered in transferring papers and finding out details from files. Private (Corporate based) Nursing homes/Hospitals usually save a ton of time by doing these works in a digitalized design. Still, there are some cases even in private hospitals and clinics, where we have to wait even after reaching the hospital at the allotted time. This is due to the absence of any sort of portal for the end-user (patients), from where they could keep themselves updated about the delay, in real-time.

Hence, it can be concluded that there is a need for a web-based database system that can be used in managing these hospitals.

6) **Objective:** -

The objective of our project is to provide a web-based database system where the end-users (patients/public) would be able to book appointments for visiting a doctor (of a specific specialization) depending on the availability of the doctor. The end-user would also be able to keep themselves updated regarding their allotted time, in case there is any delay.

Since it is a hospital management database system, another objective is to provide doctors access to their appointment details. And to allow the hospital administration to manage their doctors (the details of each doctor) and their patients.

7) **Software Requirements:** -

Windows XP (Service Pack3) / Windows 8.1 / Windows 7 / Windows 10

Mysql

HTML 5

CSS 3

JavaScript

PHP 5.6

Apache Web Server

XAMPP Server

Bootstrap

8) **Proposed System:** -

Our proposed system eliminates the traditional method of collecting and managing the data in the paper. Our proposed system is a web-based database system. The purpose behind making it a web-based application is that it is easy to access. The data and records are organized in a centralized database.

The system would provide different login portals for patients, doctors, and administration. The credentials for the administration are given at first hand which provides them access to the administration dashboard.

It is the responsibility of the administration to manage details regarding doctors and patients i.e. they can add and change details regarding doctors. They also have access to all the events partaking through the website like booking of appointments, feedback, etc.

The website is also equipped with features to accommodate patients and doctors.

Patients can search for a doctor of a particular specialization and book an appointment at their discretion. They would then be notified about their appointment and the details concerning it.

Doctors can then review the appointments that the patients have booked them with.

Our website also has an update feature that updates the details of the user as per the necessity of the user.

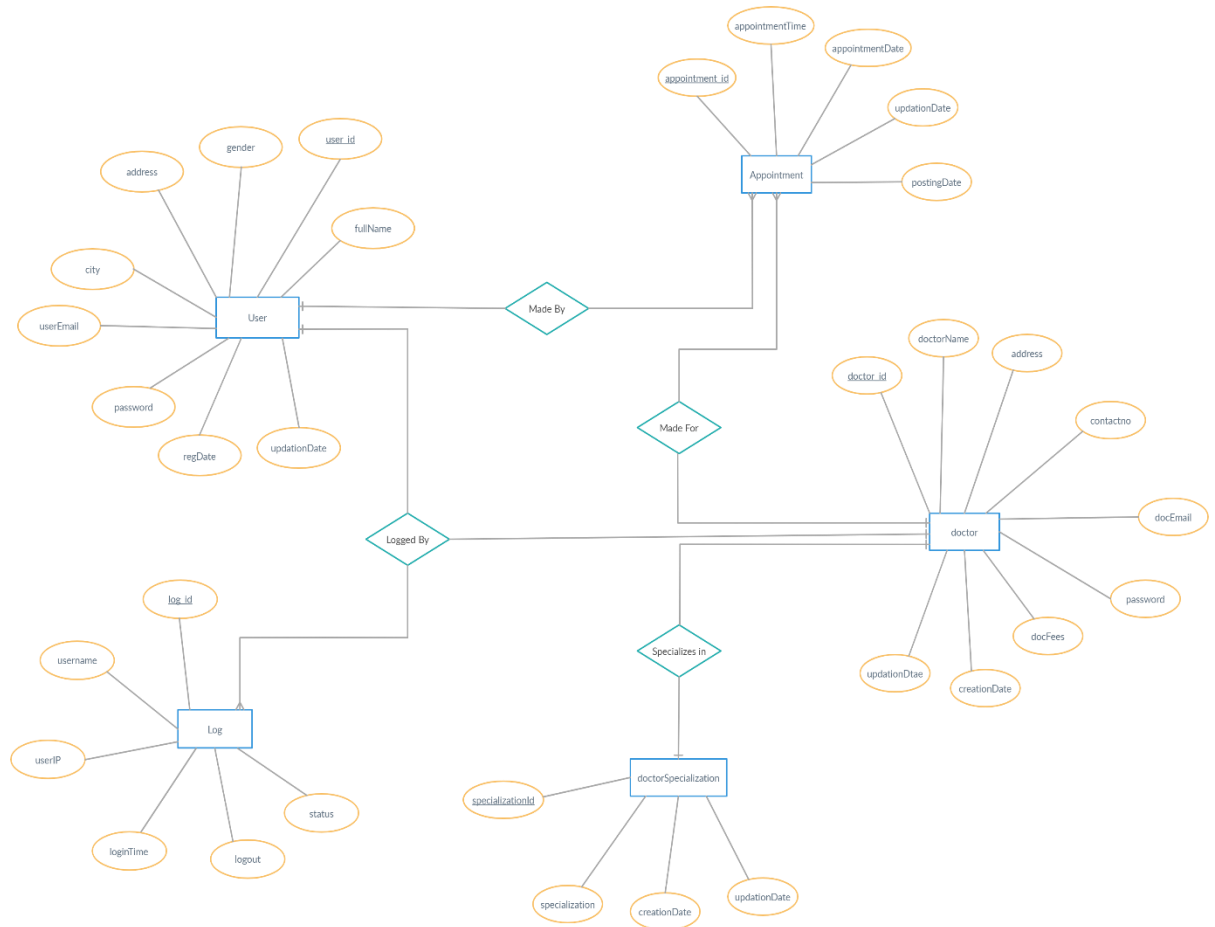
The database consists of five main tables :

1. Doctor
2. User
3. Appointment
4. DoctorSpecialization
5. Log

These tables store all the information related to doctors, patients, and appointments. The doctor and patient tables store all the basic details of the user which would be collected at the time of registration, like name, email, password, contact information, and address. The appointment table contains the relevant information regarding an appointment, like the doctor and patient name, the doctor's fee, the appointment date and time, and the status of the appointment. The log table keeps a track of all the appointments so that they can be viewed by both the doctors and the patients

Apart from these tables, there are also some tables in the database which store the login credentials.

9) Entity-relationship Diagram: -



10) Relational Model: -

