

Mini Project Part I Submission

Abstract -

In this project we have to develop a database for a hospital. The main aim is to store the details of the patients, doctors and the billing system of the hospital. It stores the data of who people are coming and which doctor are they consulting and in which room are they being admitted if so. We store the patient details with their name, lab reports if any and where they are being admitted to. We will create schema for these entities and integrate them to work properly.

Title -

Hospital Management System

Introduction (Motivation and Objectives) -

Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that supports requiring information. A DBMS makes it possible for end users to read, create, update, delete in a database. The DBMS essentially serves as an interface between the end users or application programs, ensuring that data is consistently organized and remains easily accessible. The DBMS manages three things : the data, the database engine to be accessed, locked and modified and the database schema, which defines the database's logical structure. These 3 foundational elements help provide concurrency, security and data integrity. The DBMS can offer both logical and physical independence. That means it can protect users and applications from needing to know where the data is located or having to be concerned about the changes to the physical structure of data.

The main purpose for having a database system for Hospital is to reduce the manual errors involved in various details involved and make it convenient to maintain details about the patients and the doctors. Due to automation, many loopholes that exist in manual maintenance can be removed. The speed of obtaining and processing the details will be fast.

Problem Definition

The project deal with storing of database for a Hospital. It comprises informaation about the details of the patients, doctors and other relevant information. The hospital management system database project will help to reduce the pen paper work in the hospitals if not completely. There will be many patients admitted in the hospitals. So to keep track about the information like personal details, treatment that is going on etc. There will be doctors who treat these patients. One doctor can treat many patients. So the doctor and the patient are related in the database. This database can also contain the information regarding the doctors, nurses, pharmacists and other hospital staffs. The features that can be included in the hospital management system are as follows:

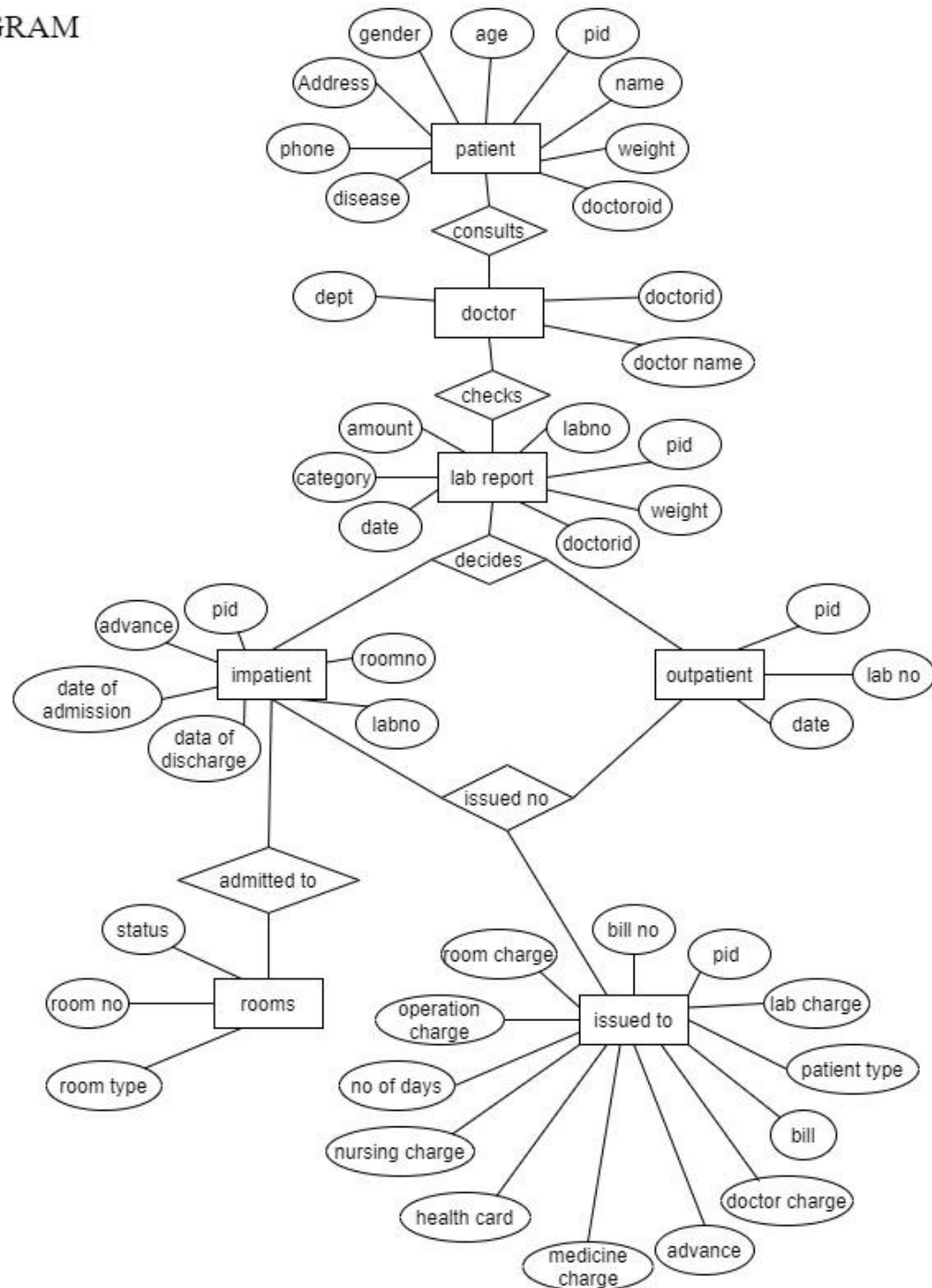
- Patients database management: The details related to the patients like name, address, contact number, disease suffered from, treatment given and so on.
- Staff database management: The details of the staff like the doctors, nurses, back staff, security and other details can be stored using this application.
- Information at one stretch: The information of the staff and the patients can be obtained at just one stretch.

Tools and Technologies -

- Java/C++
- SQL

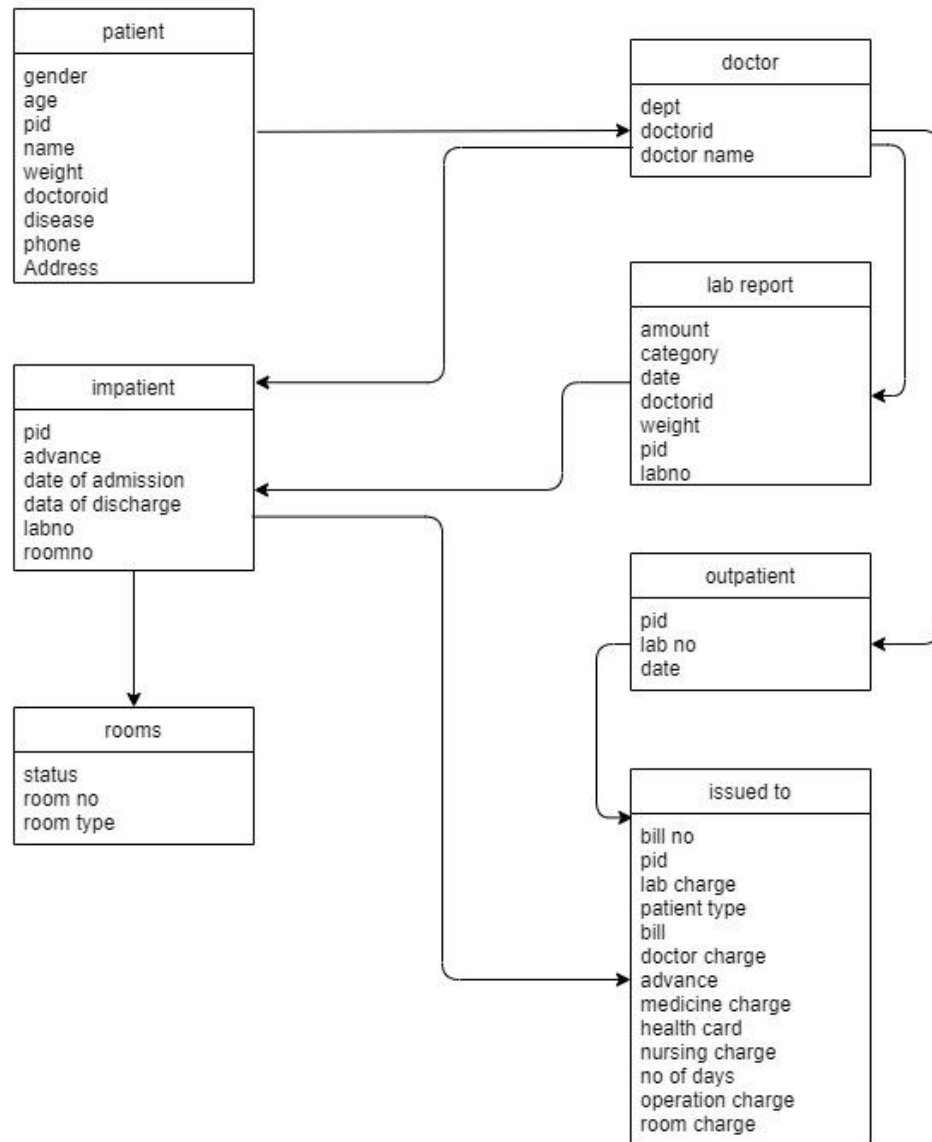
Database Design(ER diagram) -

HOSPITAL MANAGEMENT SYSTEM ER DIAGRAM



Database Schema -

HOTEL MANAGEMENT SYSTEM SCHEMA DIAGRAM



Group Name -

- PB07 Mayur Pingale
- PB11 Rohit Patil
- PB13 Karan Patil
- PB39 Hrishikesh Neymade