**Integrated Hospital Management System ( IHMS)**

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**Abstract**

We intend to build a hospital management system. Each patient has a unique ID, as well as a full description includng his/her personal details such as address, blood group, phone number, past illness as well as the disease and current treatment going on. The database also comprises of details of the doctors, their qualifications and the patients they are attending to. The software’s capabilites include adding new data into the system, maintaining and updating the doctor and blood bank data base, as well as providing information regarding bed availability in the hospital. The user can also search for availability of particular doctors from a particular medical department, as well as view the list of scheduled appointments

**Problem statement**

To design and implement an Integrated system for managing patient, doctor and other hospital records. The user is exposed to an easy to use GUI. The application is very intuitive and assists the user to structure his/her hospital appointments and view various other information. Its core functionalities involve storing, updating and retreiving information pertaining to doctors, appointments, blood bank through user-friendly menu driven modules. The data requirements involve the patient records, doctor and department records, blood bank details, room booking details as well as the appointment details. This develops and is superior to the already existing systems in that it allows the desired level of transparency to the user and allows better control to the doctors. We aim to achieve better health care as well as an increasingly transparent hospital management to ensure healthcare for all.

**Schema**

Patient ( pid, pat\_name, dob, gender, email, address, blood\_group)

Doctor(did, dno, doc\_name, address, email, phone, gender)

Appointment(pid, did, ap\_date, ap\_time)

Room(rno, type,floor)

Dependent(pid, dep\_name, gender, relation)

Blood\_bank(pid, bd\_day, blood\_group, quantity)

Booking(rno, pid, in\_date, out\_date)

Department(dno, dname, dept\_head)

**DDL Commands to Create Tables**

create table patient(

pid number(4) primary key,

pat\_name varchar(20) not null,

dob varchar(10),

gender varchar(1) not null,

email varchar(20),

address varchar(20),

blood\_group varchar(3) not null,

check (gender in (‘M’, ‘F’, ‘m’, ‘f’))

);

create table appointment(

pid number(4) references patient,

did number(4) references doctor,

ap\_date date,

primary key(pid,did,ap\_date));

create table doctor(

did number(4) primary key,

dno number(3) references department,

doc\_name varchar(20),

address varchar(15),

email varchar(20),

gender varchar(1) not null,

phone number(10),

check (gender in (‘M’, ‘F’, ‘m’, ‘f’))

);

create table room(

rno number(4) primary key,

type varchar(10),

floor number(2)

);

create table blood bank(

pid number(4) references patient,

bd\_day date,

blood\_group varchar(3),

amount number(4),

primary key(pid,timestamp)

);

create table dependent(

pid number(4) primary key references patient,

dep\_name varchar(20) not null,

gender varchar(1) not null,

relation varchar(10),

check (gender in (‘M’, ‘F’, ‘m’, ‘f’))

);

create table booking(

pid number(4) references patient,

rno number(4) references room,

in\_date date,

out\_date date

primary key(pid,rno));

create table department(

dno number(3) primary key,

dept\_name varchar(10),

dept\_head number(4) references doctor(did));

**List of Queries Used**

