PATIENT MANAGEMENT SYSTEM

19CSE202 DBMS Project



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Abstract

Introduction

Amrita Super Specialty Hospital is a multi-specialty hospital that includes a number of departments, doctors and working staffs. Patients having different kind of ailments come to the hospital and get checked up with the doctor. The aim of this project is to design and develop a database for the hospital to maintain the records of various departments, patients, and doctors in the hospital. The admin of the hospital has the details of all patients ever treated. It also maintains the record of regular patients, patients admitted in the hospital, medical status, and prescriptions.

Functionalities of the System

In a hospital there are many departments, and patients can come and meet the doctor of a particular department based on the disease the patient is suffering from. There is one type of user in this system – Administrator. Admin can access and view the patients records such as number of people getting treated at the hospital for a particular disease, doctor's details that are attending these patients.

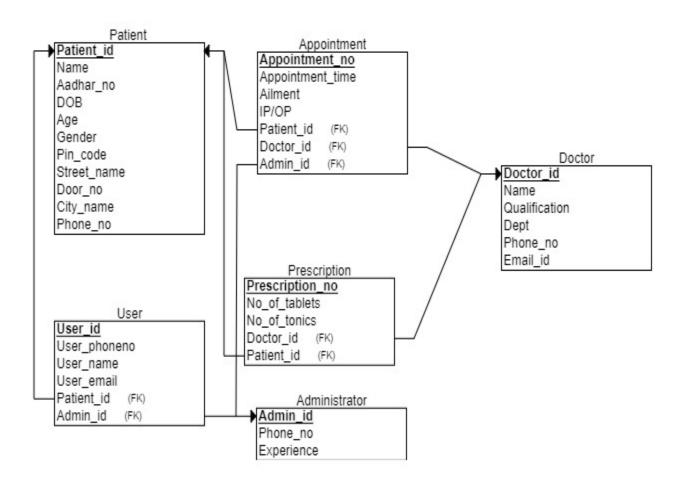
Modules in the system

This system includes the following modules
Patient information
Doctor details
Appointment details
Prescriptions

Benefits of the system

This system supports information on all the patients who have visited the hospital for consulting, treatments and their prescriptions.

Schema Diagram



Extended ER Diagram User Password No. of Tablets Visitor Permanent Employee

NORMALIZATION

BEFORE NORMALIZATION:

- 1. Administrator(admin id , phone no , Experience)
- 2. Patient(Patient_id , Name , Adhar_no , DOB , Gender , Pin_code , Street name , Door no , City name , Phone no)
- 3. Doctor(Doctor_id , Name , Qualification ,Dept , Phone_no , Email_id)
- 4. User(User email, Admin id, Patient id, User password)
- Appointment(Appointment_no, Appointment_time, Ailment, IP_OP, Admin_id,
 Patient id, Doctor id)
- 6. Prescription (Prescription no, No of tablets, No of tonics, Doctor id, Patient id)
- 7. Billing(Bill no, Admin id, Cost, Prescription no)

FUNCTIONAL DEPENDENCIES:

- Administrator(admin_id , phone_no , Experience)
 - admin id \rightarrow phone no
 - admin_id → Experience
- Patient(Patient_id , Name , Adhar_no , DOB , Gender , Pin_code ,
 Street name , Door no , City name , Phone no)
 - Patient_id → Name , Adhar_no , DOB , Age , Gender , Pin_code , Street_name , Door_no , City_name
 - Patient id → Phone no
- Doctor(Doctor_id , Name , Qualification ,Dept , Phone_no , Email_id)
 Doctor_id → Name , Qualification ,Dept ,Email_id
 Doctor_id → Phone_no
- 4. User(User email, Admin id, Patient id, User password)
 - User email → User password
 - User email → Admin id
 - User email → Patient id
- 5. Appointment(Appointment_no, Appointment_time, Ailment, IP_OP, Admin_id, Patient_id, Doctor_id)
 - Appointment_no → Appointment_time , Ailment , IP_OP , Admin_id , Patient_id , Doctor_id

- 6. Prescription (Prescription_no , No_of_tablets , No_of_tonics , Doctor_id , Patient_id)
 - Prescription no → , No of tablets , No of tonics , Doctor id , Patient id
- 7. Billing(Bill no, Admin id, Cost, Prescription no)
 - Bill no , Admin id → Cost , Prescription no

ANOMALIES:

INSERTION ANOMALY:

For example in table appointment when a new record has to be created and then patient_id would be null until the patient_id is created, but if patient_id do not accept null values it results in insertion anomaly.

UPDATION ANOMALY:

Sometimes in Prescription table the same patient_id can have multiple Prescriptions so multiple prescription_no under same doctor_id, here when the particular patient_id's doctor_id change it might not get reflected in other prescriptions

DELETION ANOMALY:

For example in the table patient, if the patient deletes his/her/their account then it deletes the patient_id which will also delete's the patient's important information.

NORMALIZATION:

In the relations there are,

- Minimal set of attributes which can uniquely identify a record (primary key) is there in each table.
- Multivalued attributes found in tables admin, doctor, patient

REMOVING MULTIVALUED ATTRIBUTES: MINIMAL COVER:

- 1. Administrator(admin id , phone no , Experience)
 - Admin_exp (admin_id , Experience)
 - Admin phoneno (admin id , phone no)

- 2. Patient(Patient_id , Name , Adhar_no , DOB , Gender , Pin_code , Street_name , Door no , City name , Phone no)
 - Patient_info (Patient_id , Name , Adhar_no , DOB , Age , Gender , Pin_code , Street_name , Door_no , City_name)
 - Patient_phoneno (Patient_id ,Phone_no)
- 3. Doctor(Doctor_id , Name , Qualification ,Dept , Phone_no , Email_id)
 - Doctor info (Doctor id , Name , Qualification ,Dept ,Email id)
 - Doctor phoneno (Doctor id , Phone no)
- 4. User(User email, Admin id, Patient id, User password)

There are no repeating groups.

HENCE THE RELATION SCHEMA IS IN 1NF

5. Appointment(Appointment_no, Appointment_time, Ailment, IP_OP, Admin_id, Patient_id, Doctor_id)

There are no repeating groups.

HENCE THE RELATION SCHEMA IS IN 1NF.

Prescription (Prescription_no, No_of_tablets, No_of_tonics, Doctor_id, Patient id)

There are no repeating groups.

HENCE THE RELATION SCHEMA IS IN 1NF

7. Billing(Bill_no , Admin_id , Cost , Prescription_no) There are no repeating groups.

HENCE THE RELATION SCHEMA IS IN 1NF.

1NF

- 1. Each table has a primary key: minimal set of attributes which can uniquely identify a record
- The values in each column of a table are atomic (No multi-valued attributes allowed).
- 3. There are no repeating groups: two columns do not store similar information in the same table.

FUNCTIONAL DEPENDANCY: REMOVING PARTIAL DEPENDANCIES

admin_id -> Experience 1. New schema: Admin exp(admin id ,Experience) 2. admin_id ->phone_no New schema: Admin_phoneno(admin_id ,phone_no) Patient id -> Name, Adhar no, DOB, Gender, Pin code, Street name, 3. Door no, City_name • New schema: Patient_info(Patient_id , Name , Adhar no , DOB , Gender , Pin code , Street_name , Door_no , City_name) 4. Patient id -> Phone no • New schema: Patient phoneno (Patient id , Phone no) Doctor id -> Name, Qualification, Dept, Email id 5. • New schema: Doctor info (Doctor id ,Name , Qualification ,Dept ,Email id) 6. Doctor id -> Phone no New schema: Doctor phoneno(Doctor id ,Phone no) User_email ,Admin_id, Patient_id , User_password , here : User_email is the primary key User email → User password User email \rightarrow Admin id User email → Patient id New schema: User(User email, Admin id, Patient id, User password) 7. Appointment no → Appointment time, Ailment, IP OP, Admin id, Patient id, Doctor id • New schema: Appointment (Appointment no , Appointment time , Ailment , IP_OP , Admin_id , Patient_id , Doctor_id) Prescription no \rightarrow No of tablets, No of tonics, Doctor id, Patient id) 8. • New schema: Prescription (Prescription no , No of tablets , No of tonics , Doctor_id , Patient_id) 9. Attributes: Bill no, Admin id, Cost, Prescription no • here: Bill_no, Admin_id, Prescription_no act as a candidate key Bill no, Prescription no \rightarrow Cost So cost depends on bill no and Prescription_no which is a subset of candidate key and not on admin id So ,moving cost data item and that part of the primary key ie Bill_no to a new table we get New schema as

New schema: Bill(Bill_no, Admin_id)

New schema : Amount(Bill_no , Prescription_no,Cost)

2NF

- 1. The table is in 1 NF
- 2. Partial dependency in the table billing has been removed.

FUNCTIONAL DEPENDANCY: REMOVING TRANSITIVE DEPENDANCIES

- 1. Admin_exp(admin_id ,Experience) NO Transitivity found
- 2. Admin_phoneno(admin_id ,phone_no) NO Transitivity found
- (Patient_id , Name , Adhar_no , DOB , Gender , Pin_code , Street_name , Door_no , City_name)
 - Patient id → Adhar no
 - Adhar_no → DOB , Name, Gender, Pin_code , Street_name , Door_no , City

Here every other non – prime key attribute in the relation is dependant on the attribute Aadhar which is also a non – prime key.

This results in transitivity dependency.

To avoid transitive dependency we create new schema

- NEW SCHEMA: Patient aadhar(Patient id ,Adhar no)
- NEW SCHEMA: Patient_info(Adhar_no , DOB , Name, Gender, Pin_code , Street_name , Door_no , City_name)
- 4. Patient_phoneno(Patient_id , Phone_no) NO Transitivity found
- Doctor_info(Doctor_id ,Name , Qualification ,Dept ,Email_id) NO Transitivity found
- 6. Doctor phoneno (Doctor id ,Phone no) NO Transitivity found

User(User_email , Admin_id, Patient_id ,User_password)- NO Transitivity found
 User_email
 →User_password
 User_email → Admin_id
 User_email → Patient_id
 Schema remains same
 Appointment(Appointment_no , Appointment_time , Ailment , IP_OP, Admin_id , Patient_id, Doctor_id)
 Appointment_no → Appointment_time , Ailment , Admin_id , Patient_id , Doctor_id
 Patient id → IP OP

Here non – prime key attribute IP_OP in the relation is dependant on the attribute Ailment which is also a non – prime key and of the form $X \to Y$, $Y \to Z$, $X \to Z$ This results in transitivity dependency.

To avoid transitive dependency we create new schema

- NEW SCHEMA: Appointment_info(Appointment_no, Appointment_time, Ailment, Admin_id, Patient_id, Doctor_id)
- NEW SCHEMA: Appointment_ailment(Patient_id ,IP_OP)
- Prescription (Prescription_no , No_of_tablets , No_of_tonics , Doctor_id , Patient_id) - NO Transitivity found
- 10. Bill(Bill_no , Admin_id) NO Transitivity found
- 11. Amount(Bill no ,Cost , Prescription no) NO Transitivity found

3NF

- 1. The table is in 2NF
- 2. Transitive dependencies in the relation are removed

FUNCTIONAL DEPENDENCY: CHECKING IF EVERY DETERMINANT IS A CANDIDATE KEY

- 1. Admin exp(admin id ,Experience) NO CHANGE
- Admin_phoneno(admin_id ,phone_no) NO CHANGE
- Patient aadhar(Patient id ,Adhar no) NO CHANGE

- 4. Patient_info(Adhar_no , DOB , Name, Gender, Pin_code , Street_name , Door_no ,City_name)- NO CHANGE
- 5. Patient_phoneno(Patient_id , Phone_no) NO CHANGE
- 6. Doctor_info(Doctor_id ,Name , Qualification ,Dept ,Email_id) NO CHANGE
- 7. Doctor phoneno (Doctor id ,Phone no) NO CHANGE
- 8. User(User_email, Admin_id, Patient_id, User_password) NO CHANGE
- Appointment_info(Appointment_no , Appointment_time , Ailment ,Admin_id , Patient_id , Doctor_id)- NO CHANGE
- 10. Appointment ailment(Patient id, IP OP)- NO CHANGE
- 11. Prescription (Prescription_no , No_of_tablets , No_of_tonics , Doctor_id , Patient_id) NO CHANGE
- 12. Bill(Bill_no , Admin_id) NO CHANGE
- 13. Amount(Bill no ,Cost , Prescription no) NO CHANGE

BCNF - Boyce-Codd normal form

- 1. Above relations are in 3NF.
- 2. In the above relations, one can see that only the super key determines all the other attributes in that relation.

So all the relations are in BCNF.

RELATIONS AFTER NORMALISATION:

- 1. Admin exp(admin id ,Experience)
- 2. Admin phoneno(admin id ,phone no)
- 3. Patient_aadhar(Patient_id ,Adhar_no)
- 4. Patient_info(Adhar_no, DOB, Name, Gender, Pin_code, Street_name, Door_no, City_name)
- 5. Patient_phoneno(Patient_id , Phone_no)
- 6. Doctor_info(Doctor_id ,Name , Qualification ,Dept ,Email_id)
- 7. Doctor phoneno (Doctor id ,Phone no)
- 8. User(User email, Admin id, Patient id, User password)
- Appointment_info(Appointment_no , Appointment_time , Ailment , Admin_id , Patient_id , Doctor_id)
- 10. Appointment ailment(Patient id, IP OP)
- 11. Prescription (Prescription no, No of tablets, No of tonics, Doctor id, Patient id)
- 12. Bill(Bill no, Admin id)
- 13. Amount(Bill no ,Cost , Prescription no)

Backend Design

Table creation commands

1. Admin_exp

create table admin_exp(admin_id varchar2(20), Experience varchar2(50), primary key(admin_id));

2. Admin phoneno

create table admin_phoneno(admin_id varchar2(20),admin_phone int,primary key (admin_phone), foreign key(admin_id) references admin_exp(admin_id));

3. Patient_aadhaar

create table patient_aadhaar(patient_id varchar2(10),aadhaar_no int,primary key (patient_id));

4. Patient info

create table patient_info(aadhaar_no int, DOB date,patient_name varchar2(100),gender varchar2(10),pin_code int,street_name varchar2(100),door_no varchar2(100), city_name varchar2(50), primary key (aadhaar_no));

5. Patient phoneno

create table patient_phoneno(patient_id varchar2(10),patient_phone int, foreign key(patient_id) references patient_aadhaar(patient_id),primary key (patient_phone));

6. Doctor_info

create table doctor_info(doctor_id varchar2(10),doctor_name varchar2(50),qualification varchar2(50),department varchar2(50),doctor_email varchar2(50), primary key (doctor_id));

7. Doctor_phoneno

create table doctor_phoneno(doctor_id varchar2(10),doctor_phone int, foreign key(doctor_id) references doctor_info(doctor_id), primary key (doctor_phone));

8. User

create table user_(user_email varchar2(20),admin_id varchar2(20), patient_id varchar2(20),user_password varchar2(10),foreign key(admin_id) references admin exp(admin_id),foreign key(patient_id) references

```
patient aadhaar(patient id), primary key (user email));
```

9. Appointment_info

create table appointment_info(appointment_no int , appointment_time varchar2(20) , ailment varchar2(20) , admin_id varchar2(20) , patient_id varchar2(20) NOTNULL, doctor_id varchar2(20),foreign key(admin_id) references admin_exp(admin_id),foreign key(patient_id) references patient_aadhaar(patient_id),foreign key(doctor_id) references doctor_info(doctor_id), primary key (appointment_no),);

10. Appointment_ailment

create table appointment_ailment(patient_id varchar2(20),IP_OP varchar2(20), foreign key(patient_id) references patient_aadhaar(patient_id));

11. Prescription

create table prescription(prescription_no int,no_of_tablets int,no_of_tonics int, doctor_id varchar2(20),patient_id varchar2(20), foreign key(patient_id) references patient_aadhaar(patient_id),foreign key(doctor_id) references doctor_info(doctor_id), primary key(prescription_no));

12. Bill

create table bill(bill_no int, admin_id varchar2(20),primary key(bill_no),foreign key(admin_id) references admin exp(admin id));

13. Amount

create table amount(bill_no int, prescription_no int,bill_cost varchar2(50),foreign key (bill_no) references bill(bill_no),foreign key(prescription_no) references prescription(prescription_no));

INSERTION OF RECORDS

```
insert into admin_exp values('A01','10 Years'); insert into admin_exp values('A02','11 Years'); insert into admin_exp values('A03','12 Years'); insert into admin_exp values('A04','13 Years'); insert into admin_exp values('A05','14 Years'); insert into admin_exp values('A06','15 Years'); insert into admin_exp values('A07','16 Years'); insert into admin_exp values('A08','17 Years'); insert into admin_exp values('A09','18 Years');
```

insert into admin_exp values('A10','20 Years'); select*
from admin_exp

```
insert into admin phoneno values('A01',9734527645);
insert into admin phoneno values('A02',9784645326);
insert into admin phoneno values('A03',7344567645);
insert into admin phoneno values('A04',9873476553);
insert into admin phoneno values('A05',9934578776);
insert into admin_phoneno values('A06',7345310023);
insert into admin phoneno values('A07',8098459864);
insert into admin phoneno values('A08',9988779876);
insert into admin phoneno values('A09',7798644325);
insert into admin phoneno values('A10',9440678730);
select *from admin phoneno
insert into patient aadhaar values('P01',223245637635);
insert into patient aadhaar values('P02',465837526475);
insert into patient aadhaar values('P03',846372239654);
insert into patient aadhaar values('P04',927475784329);
insert into patient aadhaar values('P05',938465436254);
insert into patient aadhaar values('P06',247564837256);
insert into patient aadhaar values('P07',674326298573);
insert into patient aadhaar values('P08',623546352372);
insert into patient aadhaar values('P09',932823574256);
insert into patient aadhaar values('P10',223273645434);
select * from patient aadhaar
insert into patient info values(223245637635,DATE' 2002-09-
02', 'Balakrishna', 'Male', 500049, 'Gachibowli', 'HNO1234', 'Hyderabad'); insert
into patient info values (465837526475, DATE' 2003-08-
13', 'Gopal', 'Male', 534649, 'Connaught Place', 'HNO7354', 'New Delhi'); insert
into patient info values (846372239654, DATE' 2004-07-
22', 'Anushka', 'Female', 518002, 'Colaba causeway', 'HNO4567', 'Mumbai'); insert
into patient info values(927475784329,DATE' 2005-06-12','Ram
Charan', 'Male', 465854, 'Dadabhai Naoroji Road', 'HNO9375', 'Mumbai'); insert
into patient info values(938465436254,DATE' 1996-05-06','Alia
Bhatt', 'Female', 518004, 'Fontainhas', 'HNO2345', 'Goa');
insert into patient info values(247564837256,DATE' 1987-04-
15', 'Prabhas', 'Male', 500736, 'Suchithra Circle', 'HNO9876', 'Hyderabad'); insert
into patient info values(674326298573,DATE' 1968-03-30','Pawan
Kalyan', 'Male', 501234, 'Jubilee Hills', 'HNO5678', 'Hyderabad');
```

```
insert into patient info values(623546352372,DATE' 1998-02-
26', 'Samantha', 'Female', 764857, 'Hitex', 'HNO9452', 'Hyderabad');
insert into patient info values(932823574256,DATE' 1999-01-
23','Pooja','Female',456633,'Mall Road','HNO7634','Shimla');
insert into patient info values(223273645434,DATE' 1978-12-31','M.S
Dhoni', 'Male', 518006, 'Hazratganj', 'HNO2758', 'Lucknow');
select*from patient info
insert into patient phoneno values ('P01',9876543221);
insert into patient phoneno values ('P02',8765432921);
insert into patient phoneno values ('P03',7654356221);
insert into patient phoneno values ('P04',7655443221);
insert into patient phoneno values ('P05',9835543226);
insert into patient phoneno values ('P06',9997394421);
insert into patient phoneno values ('P07',9765542424);
insert into patient phoneno values ('P08',8658434232);
insert into patient phoneno values ('P09',9757363416);
insert into patient phoneno values ('P10',7666623421);
select*from patient_phoneno
insert into doctor info
values('D01','DR.RAMESH','MBBS','Cardiology','ramesh123@gmail.com'); insert
into doctor info
values('D02','DR.SURESH','MS','Ophthalmology','suresh123@gmail.com'); insert
into doctor info
values('D03','DR.MUKESH','MD','Radiology','mukesh123@gmail.com'); insert into
doctor info values('D04','DR.ARJUN','MS','Nephrology','arjun123@gmail.com');
insert into doctor info
values('D05','DR.TARAK','MBBS','Neurology','tarak123@gmail.com'); insert into
doctor info
values('D06','DR.ARVINDH','MD','Pulmonology','arvindh123@gmail.com'); insert
into doctor info values('D07','DR.LOKESH
KUMAR', 'MBBS', 'Pediatrics', 'lokesh123@gmail.com');
insert into doctor info
values('D08','DR.PUNEETH','MD','Dermatology','puneeth123@gmail.com'); insert
into doctor info
values('D09','DR.SANJAY','MD','Psychiatry','sanjay123@gmail.com'); insert into
doctor info values('D10','DR.RITA
BHAKSHI', 'MS', 'Oncology', 'rita123@gmail.com');
select *from doctor_info
insert into doctor phoneno values('D01', 7364652345);
```

```
insert into doctor phoneno values('D02', 9323564642);
insert into doctor phoneno values('D03', 8234512919);
insert into doctor phoneno values('D04', 7345391644);
insert into doctor_phoneno values('D05', 9935264533);
insert into doctor phoneno values('D06', 9435474756);
insert into doctor_phoneno values('D07', 7734734825);
insert into doctor_phoneno values('D08', 8765343233);
insert into doctor phoneno values('D09', 9000800763);
insert into doctor_phoneno values('D10', 8099283553);
select* from doctor_phoneno
insert into user values('user1@gmail.com','A01','P01','User1@01'); insert
into user values('user2@gmail.com','A02','P02','User2@02'); insert into
user values('user3@gmail.com','A03','P03','User3@03'); insert into user
values('user4@gmail.com','A04','P04','User4@04'); insert into user
values('user5@gmail.com','A05','P05','User5@05'); insert into user
values('user6@gmail.com','A06','P06','User6@06'); insert into user
values('user7@gmail.com','A07','P07','User7@07'); insert into user
values('user8@gmail.com','A08','P08','User8@08'); insert into user
values('user9@gmail.com','A09','P09','User9@09'); insert into user
values('user10@gmail.com','A10','P10','User10@10'); select * from user_
insert into appointment info values(001, '9AM', 'Arrhythmia', 'A01', 'P01', 'D01'); insert
into appointment info values(002, '9.15AM', 'Malaria', 'A02', 'P02', 'D02'); insert into
appointment info values(003, '9.30AM', 'Hepatitis', 'A03', 'P03', 'D03'); insert into
appointment info values(004,'9.45AM','Dengue','A04','P04','D04'); insert into
appointment info values(005, '9.50AM', 'Tuberculosis', 'A05', 'P05', 'D05'); insert into
appointment info values(006, '9.55AM', 'Diabetes', 'A06', 'P06', 'D06'); insert into
appointment info values(007,'9.20AM','Alzheimer','A07','P07','D07'); insert into
appointment info values(008,'10AM','HIV','A08','P08','D08');
insert into appointment info values(009, '10.20AM', 'Jaundice', 'A09', 'P09', 'D09');
insert into appointment info values(010,'11AM','Pneumonia','A10','P10','D10');
select * from appointment info
insert into appointment ailment values('P01', 'IP');
insert into appointment ailment values('P02', 'OP');
insert into appointment ailment values('P03', 'IP');
insert into appointment ailment values('P04', 'OP');
insert into appointment ailment values('P05', 'IP');
insert into appointment ailment values('P06', 'OP');
insert into appointment ailment values('P07', 'IP');
insert into appointment ailment values('P08', 'OP');
```

```
insert into appointment ailment values('P09', 'OP');
insert into appointment ailment values('P10', 'IP');
select * from appointment ailment
insert into prescription values(1111,2,3,'D01','P01');
insert into prescription values(1112,5,6,'D02','P02');
insert into prescription values(1113,7,8,'D03','P03');
insert into prescription values(1114,4,3,'D04','P04');
insert into prescription values(1115,8,4,'D05','P05');
insert into prescription values(1116,6,4,'D06','P06');
insert into prescription values(1117,2,5,'D07','P07');
insert into prescription values(1118,3,7,'D08','P08');
insert into prescription values(1119,7,2,'D09','P09');
insert into prescription values(1110,6,8,'D10','P10');
select * from prescription
insert into bill values(1000,'A01');
insert into bill values(2000, 'A02');
insert into bill values(3000,'A03');
insert into bill values(4000,'A04');
insert into bill values(5000,'A05');
insert into bill values(6000,'A06');
insert into bill values(7000,'A07');
insert into bill values(8000, 'A08');
insert into bill values(9000,'A09');
insert into bill values(10001,'A10');
select * from bill
insert into amount values (1000,1111, 'RS 30,000');
insert into amount values (2000,1112, 'RS 35,000');
insert into amount values (3000,1113, 'RS 40,000');
insert into amount values (4000,1114,'RS 45,000');
insert into amount values (5000,1115, 'RS 50,000');
insert into amount values (6000,1116, 'RS 55,000');
insert into amount values (7000,1117,'RS 60,000');
insert into amount values (8000,1118, 'RS 65,000');
insert into amount values (9000,1119,'RS 70,000');
insert into amount values (10001,1110,'RS 75,000');
SELECT *FROM amount
```

Sample instances of the tables:

Admin_exp table:

ADMIN_ID	EXPERIENCE
A01	10 Years
A02	11 Years
A03	12 Years
A04	13 Years
A05	14 Years
A06	15 Years
A07	16 Years
A08	17 Years
A09	18 Years
A10	20 Years

Admin_phoneno table:

ADMIN_ID	ADMIN_PHONE
A01	9734527645
A02	9784645326
A03	7344567645
A04	9873476553
A05	9934578776
A06	7345310023
A07	8098459864
A08	9988779876
A09	7798644325
A10	9440678730

Patient_aadhaar table:

PATIENT_ID	AADHAAR_NO
P01	223245637635
P02	465837526475
P03	846372239654
P04	927475784329
P05	938465436254
P06	247564837256
P07	674326298573
P08	623546352372
P09	932823574256
P10	223273645434

Patient_info table:

AADHAAR_NO	DOB	PATIENT_NAME	GENDER	PIN_CODE	STREET_NAME	DOOR_NO	CITY_NAME
223245637635	02-SEP-02	Balakrishna	Male	500049	Gachibowli	HN01234	Hyderabad
465837526475	13-AUG-03	Gopal	Male	534649	Connaught Place	HN07354	New Delhi
846372239654	22-JUL-04	Anushka	Female	518002	Colaba causeway	HN04567	Mumbai
927475784329	12-JUN-05	Ram Charan	Male	465854	Dadabhai Naoroji Road	HN09375	Mumbai
938465436254	06-MAY-96	Alia Bhatt	Female	518004	Fontainhas	HN02345	Goa
247564837256	15-APR-87	Prabhas	Male	500736	Suchithra Circle	HN09876	Hyderabad
674326298573	30-MAR-68	Pawan Kalyan	Male	501234	Jubilee Hills	HN05678	Hyderabad
623546352372	26-FEB-98	Samantha	Female	764857	Hitex	HN09452	Hyderabad
932823574256	23-JAN-99	Pooja	Female	456633	Mall Road	HN07634	Shimla
223273645434	31-DEC-78	M.S Dhoni	Male	518006	Hazratganj	HN02758	Lucknow

Patient_phoneno table:

PATIENT_ID	PATIENT_PHONE
P01	9876543221
P02	8765432921
P03	7654356221
P04	7655443221
P05	9835543226
P06	9997394421
P07	9765542424
P08	8658434232
P09	9757363416
P10	7666623421

Doctor_info table:

DOCTOR_ID	DOCTOR_NAME	QUALIFICATION	DEPARTMENT	DOCTOR_EMAIL
D01	DR.RAMESH	MBBS	Cardiology	ramesh123@gmail.com
D02	DR.SURESH	MS	Ophthalmology	suresh123@gmail.com
D03	DR.MUKESH	MD	Radiology	mukesh123@gmail.com
D04	DR.ARJUN	MS	Nephrology	arjun123@gmail.com
DØ5	DR.TARAK	MBBS	Neurology	tarak123@gmail.com
D06	DR.ARVINDH	MD	Pulmonology	arvindh123@gmail.com
D07	DR.LOKESH KUMAR	MBBS	Pediatrics	lokesh123@gmail.com
D08	DR.PUNEETH	MD	Dermatology	puneeth123@gmail.com
D09	DR.SANJAY	MD	Psychiatry	sanjay123@gmail.com
D10	DR.RITA BHAKSHI	MS	Oncology	rita123@gmail.com

Doctor_phoneno table:

DOCTOR_ID	DOCTOR_PHONE
D01	7364652345
D02	9323564642
D03	8234512919
D04	7345391644
D05	9935264533
D06	9435474756
D07	7734734825
D08	8765343233
D09	9000800763
D10	8099283553

User table:

USER_EMAIL	ADMIN_ID	PATIENT_ID	USER_PASSWORD
user1@gmail.com	A01	P01	User1@01
user2@gmail.com	A02	P02	User2@02
user3@gmail.com	A03	P03	User3@03
user4@gmail.com	A04	P04	User4@04
user5@gmail.com	A05	P05	User5@05
user6@gmail.com	A06	P06	User6@06
user7@gmail.com	A07	P07	User7@07
user8@gmail.com	A08	P08	User8@08
user9@gmail.com	A09	P09	User9@09
user10@gmail.com	A10	P10	User10@10

Appointment_info table:

APPOINTMENT_NO	APPOINTMENT_TIME	AILMENT	ADMIN_ID	PATIENT_ID	DOCTOR_ID
1	9AM	Arrhythmia	A01	P01	D01
2	9.15AM	Malaria	A02	P02	D02
3	9.30AM	Hepatitis	A03	P03	D03
4	9.45AM	Dengue	A04	P04	D04
5	9.50AM	Tuberculosis	A05	P05	D05
6	9.55AM	Diabetes	A06	P06	D06
7	9.20AM	Alzheimer	A07	P07	D07
8	10AM	HIV	A08	P08	D08
9	10.20AM	Jaundice	A09	P09	D09
10	11AM	Pneumonia	A10	P10	D10

Appointment_ailment table:

PATIENT_ID	IP_OP
P01	IP
P02	OP
P03	IP
P04	OP
P05	IP
P06	OP
P07	IP
P08	OP
P09	OP
P10	IP

Prescription table:

PRESCRIPTION_NO	NO_OF_TABLETS	NO_OF_TONICS	DOCTOR_ID	PATIENT_ID
1111	2	3	D01	P01
1112	5	6	D02	P02
1113	7	8	D03	P03
1114	4	3	D04	P04
1115	8	4	DØ5	P05
1116	6	4	D06	P06
1117	2	5	D07	P07
1118	3	7	D08	P08
1119	7	2	D09	P09
1110	6	8	D10	P10

Bill table:

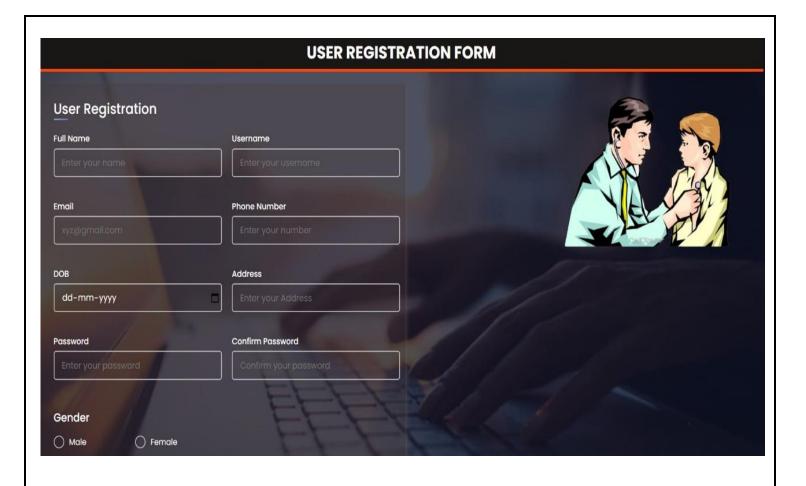
BILL_NO	ADMIN_ID
1000	A01
2000	A02
3000	A03
4000	A04
5000	A05
6000	A06
7000	A07
8000	A08
9000	A09
10001	A10

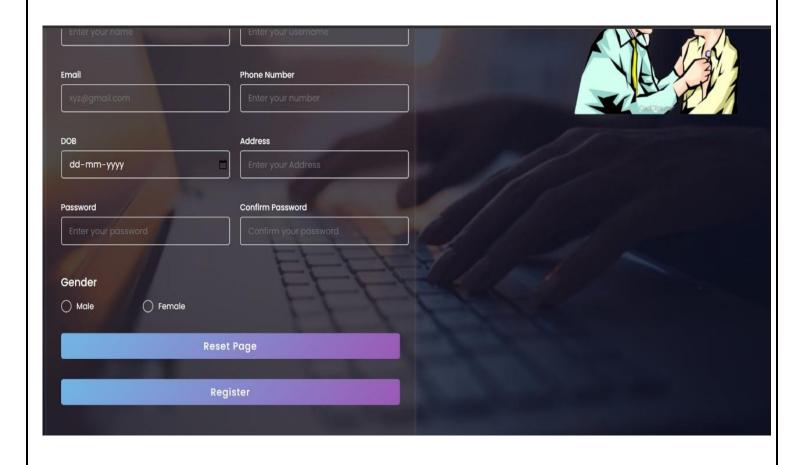
Amount table:

BILL_NO	PRESCRIPTION_NO	BILL_COST	
1000	1111	RS 30,000	
2000	1112	RS 35,000	
3000	1113	RS 40,000	
4000	1114	RS 45,000	
5000	1115	RS 50,000	
6000	1116	RS 55,000	
7000	1117	RS 60,000	
8000	1118	RS 65,000	
9000	1119	RS 70,000	
10001	1110	RS 75,000	

User Interface Design Screens:









WHAT DO YOU WANT TO DO?









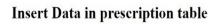


Doctor_id	Doctor_name	Qualification	Department	Doctor_email
D01	DR.RAMESH	MBBS	Cardiology	ramesh123@gmail.com
D02	DR.SURESH	MS	Ophthalmology	suresh123@gmail.com
D03	DR.MUKESH	MD	Radiology	mukesh123@gmail.com
D04	DR.ARJUN	MS	Nephrology	arjun123@gmail.com
D05	DR.TARAK	MBBS	Neurology	tarak123@gmail.com
D06	DR.ARVINDH	MD	Pulmonology	arvindh123@gmail.com
D07	DR.LOKESH KUMAR	MBBS	Pediatrics	lokesh123@gmail.com
D08	DR.PUNEETH	MD	Dermatology	puneeth123@gmail.com
D09	DR.SANJAY	MD	Psychiatry	sanjay123@gmail.com
D10	DR.RITA BHAKSHI	MS	Oncology	rita123@gmail.com
D11	Dr.Ramkumar	MBBS	Neurology	ram1996@gmail.com
D12	Dr.Ramya	MBBS	Neurology	ramya1996@gmail.com
D15	Dr.Rishik	MDS	Dentist	rishik1996@gmail.com



Prescription_no	No_of_tablets	No_of_tonics	Doctor_id	Patient_id
12	3	3	D04	P04
1110	6	8	D10	P10
1111	2	3	D01	P01
1112	5	6	D02	P02
1113	7	8	D03	P03
1114	4	3	D04	P04
1115	8	4	D05	P05
1116	6	4	D06	P06
1117	2	5	D07	P07
1118	3	7	D08	P08
1119	7	2	D09	P09
1222	4	4	D01	P03
1223	4	4	D01	P03
1333	3	3	D11	P02

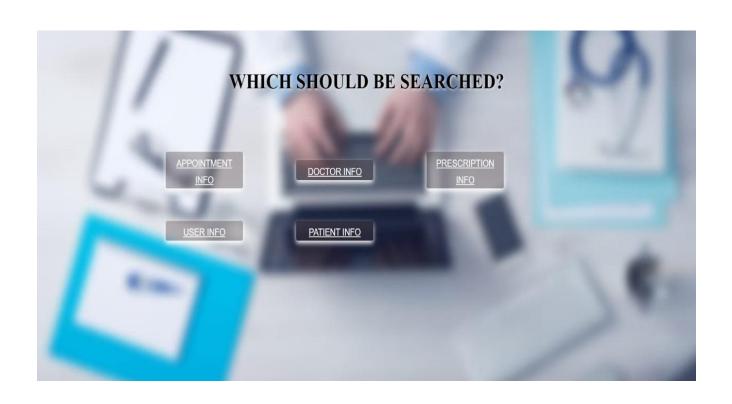


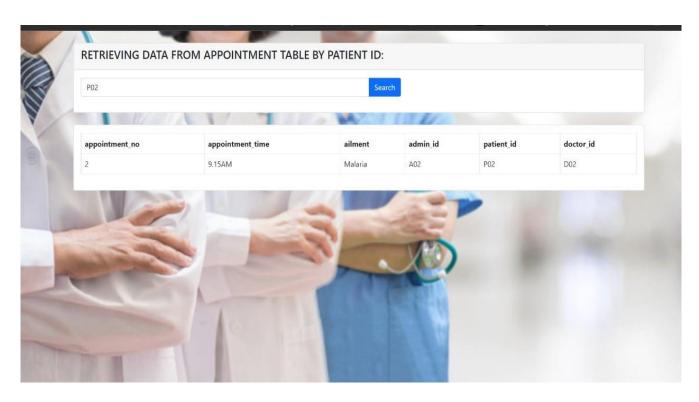




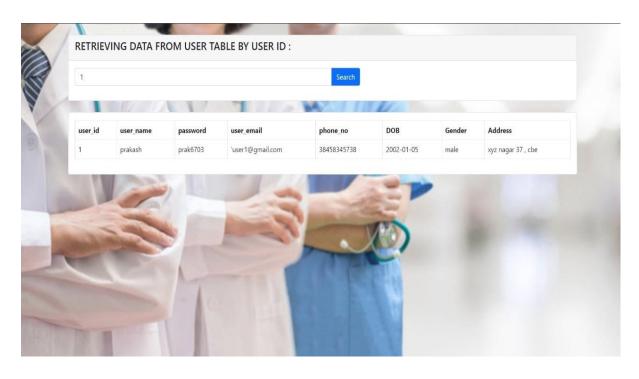
data stored in the database successfully.

19 P04 3 3 D12









CONNECTIVITY CODE:

Insertion of patient details in patient_info table :

```
$conn = mysqli_connect("localhost", "root", "", "patient_management");
// Check connection
if($conn === false){
die("ERROR: Could not connect."
. mysqli_connect_error());
$aadhar_no = $_POST['aadhar_no'];
$DOB = $_POST['DOB'];
$patient_name = $_POST['patient_name'];
$gender = $_POST['gender'];
$pin_code = $_POST['pin_code'];
$street_name = $_POST['street_name'];
$door_no = $_POST['door_no'];
$city_name = $_POST['city_name'];
           // Performing insert query execution
             // here our table name is college
        $sql = "INSERT INTO patient_info VALUES ('$aadhar_no',
         '$DOB','$patient_name','$gender','$pin_code','$street_name','$door_no','$city_name')";
         if(mysqli_query($conn, $sql)){
            echo "<h3>data stored in the database successfully."
            ."</h3>";
  echo nl2br("\n$aadhar_no\n $DOB\n "
   . "$patient_name\n $gender\n $pin_code\n $street_name\n $door_no\n $city_name");
    }
   else {
  echo "ERROR: Hush! Sorry $sql. "
    . mysqli_error($conn);
   // Close connection
   mysqli_close($conn);
```

Searching appointment details based on patient id: <?php \$con = mysqli_connect("localhost","root","","patient_management"); if(isset(\$_GET['search'])) \$filtervalues = \$_GET['search']; \$query = "SELECT * FROM appointment_info WHERE CONCAT(patient_id) LIKE '%\$filtervalues%' "; \$query_run = mysqli_query(\$con, \$query); if(mysqli_num_rows(\$query_run) > 0) foreach(\$query_run as \$items) <?= \$items['appointment_no']; ?> <?= \$items['appointment_time']; ?> <?= \$items['ailment']; ?> <?= \$items['admin_id']; ?> <?= \$items['patient_id']; ?> <?= \$items['doctor_id']; ?> No Record Found <?php

Searching doctor info based on doctor's department

```
<?php
$con = mysqli_connect("localhost","root","","patient_management");
if(isset($_GET['search']))
  $filtervalues = $_GET['search'];
  $query = "SELECT * FROM doctor_info WHERE CONCAT(department) LIKE '%$filtervalues%' ";
  $query_run = mysqli_query($con, $query);
  if(mysqli_num_rows($query_run) > 0)
   foreach($query_run as $items)
       <?= $items['doctor_id']; ?>
       <?= $items['doctor_name']; ?>
       <?= $items['qualification']; ?>
       <?= $items['department']; ?>
       <?= $items['doctor_email']; ?>
     <?php
  else
       No Record Found
    <?php
```