Project Report on Hospital Management System

Submitted by:- Rishabh Sharma

Shailender Kumar

Submitted to:- Dr. Sandeep Saxena

Content :-

Description of project

- Hospital are the essential part of our lives. Providing best medical facilities to people suffering from various ailment, which may be due to change in climate conditions, increased work-load etc.
- It necessary for the hospitals to keep track of its day-to-day activities & records of its patient , doctors ,nurse ward boy and other staff personal that keep the hospital running smoothly & successfully.

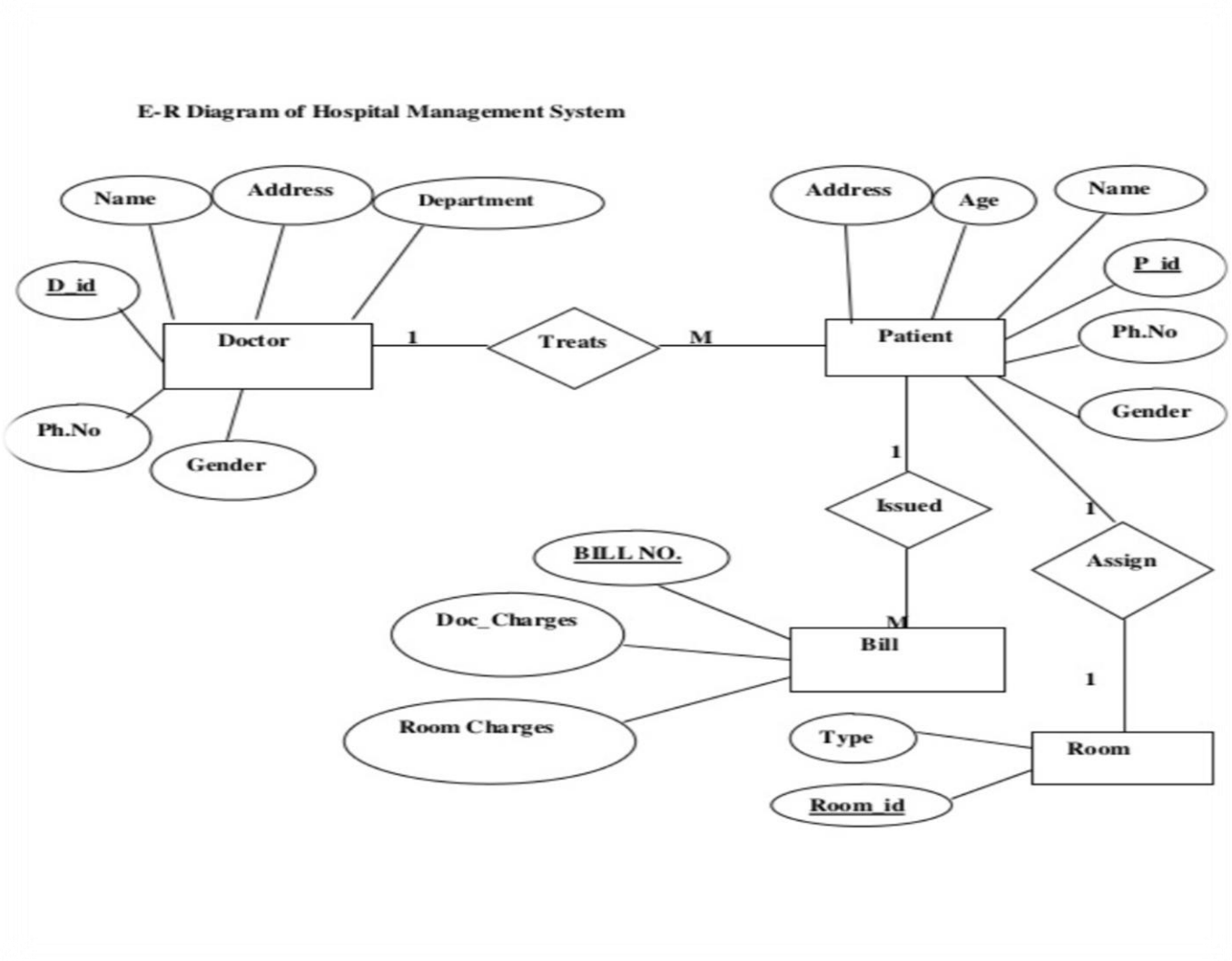
Abstract

- My project hospital management system includes registration of patients, storing their details into the system and also my software has the facilities to give a unique id for every patients and stores the details of every doctors as well for the betterment in hospital management
- It is accessible either administrator or receptionist . only they can add , modify & delete data in data base. The interface is very user friendly .

Acknowledgement

- Whenever the project is completely successful . Here by take the opportunity to thanks those entire people who help me in many different ways.
- I am grateful to my thesis guide Professor Sandeep Saxena, Sharda University.

Er-diagram


E-R Diagram of Hospital Management System
Name
Address
Department
D_id
Doctor
Ph.No
Gender
1
Treats
M
Address
Age
Name
P_id
Ph.No
Gender
Patient
1
Issued
M
1
Assign
1
BILL NO.
Doc_Charges
Room Charges
Bill
Type
Room_id
Room

Tables

CREATE Doctor table

Doctor details		
name	type	size
D _ id	integer	_
D _ name	varchar	20
D _ address	varchar	40
D _ gender	varchar	10

D_id	D_name	D_address	D_gender	D_phone
101	Uttam	Noida	M	7739345669
102	Shuhail	Delhi	M	7890456778
103	Aman	Patna	M	9856784534
104	Ashish	Delhi	M	9056782345

create Room table

Name	Type	Size
Room _ no	int	
Room _ type	varchar	15

Room_no	Room_type	
101	AC	
102	Non-AC	
103	AC	
104	Non-AC	
105	AC	

Patient table

Name	Type	Size
Name	varchar	20
Id	int	
Age	int	
Gender	varchar	10
Address	varchar	20
date	varchar	10

Name	Id	Address	Age	Gender	date
Sunil	101	Noida	19	M	20/11/18
Uman	102	Delhi	20	M	18/11/18
Manish	103	Gr . Noida	18	M	16/11/18

Bill _No	Patient _Id	Name	Gender	Room _No	Date
101	101	Shuhail	M	102	20/11/18
102	103	Uttam	M	101	17/11/18
103	102	Sanjay	M	103	19/11/18

Normalisation:

FIRST NF:

First Normal Form (**1NF**) A table is said to be in First Normal Form (**1NF**) if and only if each attribute of the relation is atomic. That is, Each row in a table should be identified by primary key (a unique column value or group of unique column values) No rows of data should have repeating group of column values.

SECOND NF:

Second normal form (**2NF**) is a normal form used in database normalization. ... Specifically: a relation is in**2NF** if it is in 1NF and no non-prime attribute is dependent on any proper subset of any candidate key of the relation.

THIRD NF:

Third Normal Form (**3NF**) A relation will be in **3NF** if it is in 2NF and not contain any transitive partial dependency. **3NF** is used to reduce the data duplication. It is also used to achieve the data integrity. If there is no

transitive dependency for non-prime attributes, then the relation must be in third normal form.

All the tabels are in 3NF

Relation between tables

- Here Doctor _ id , Bill _ no , Patient _ id and Room _ id is primary key
- Relation between doctor and patient is ‘ treats’ with one to many
- Relation between patient and bill is ‘issued ‘ with one to many
- Relation between patient and room is ‘Assign ‘ with one to one

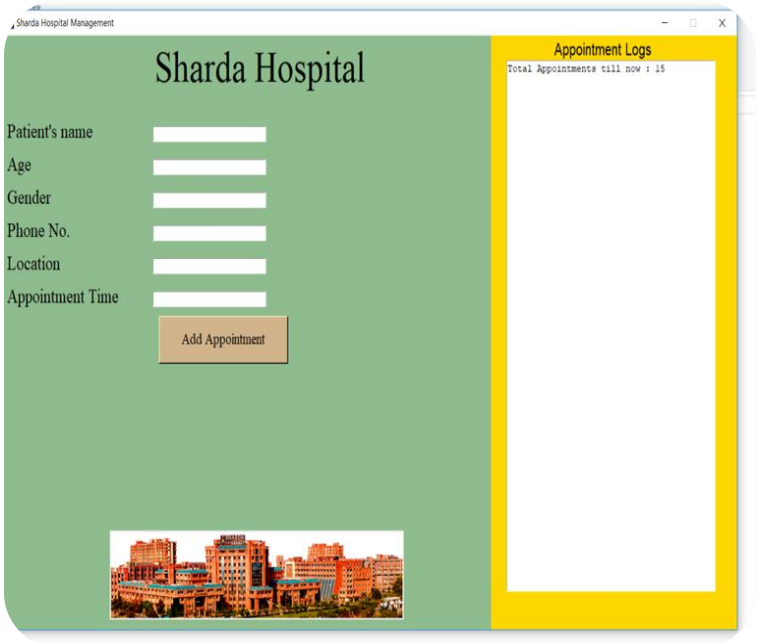
SQL queries

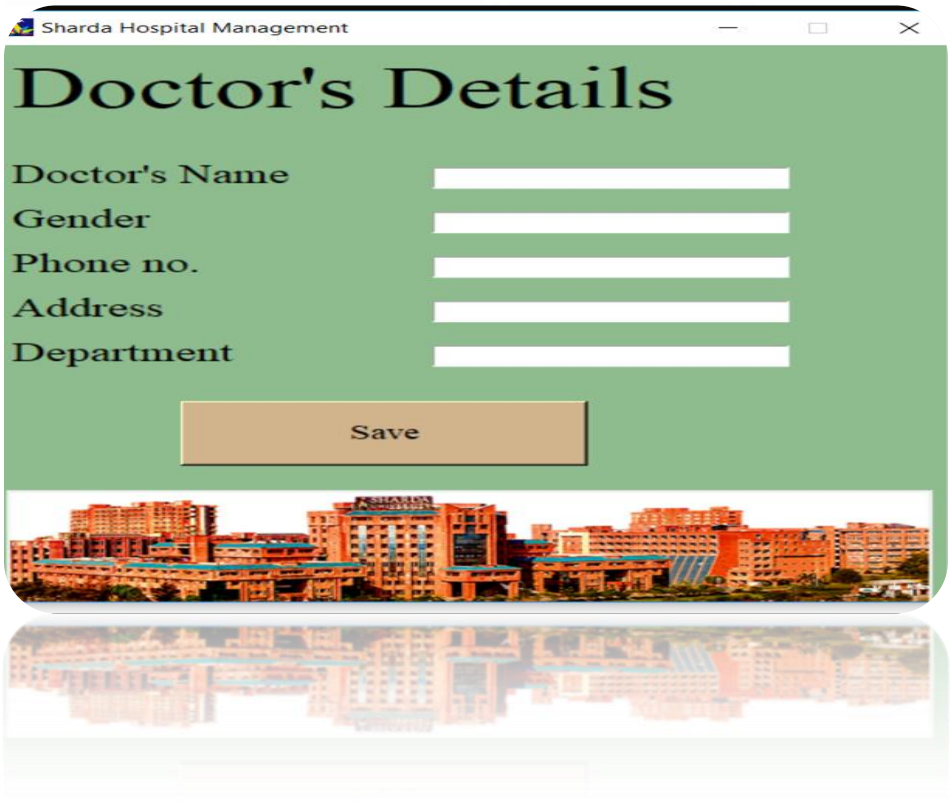
"INSERT INTO 'doctor' (d_name , d_department , d_gender , d_phone , d_address) VALUES(?,?,?,?,?)“

"SELECT * FROM appointments WHERE name LIKE ?“

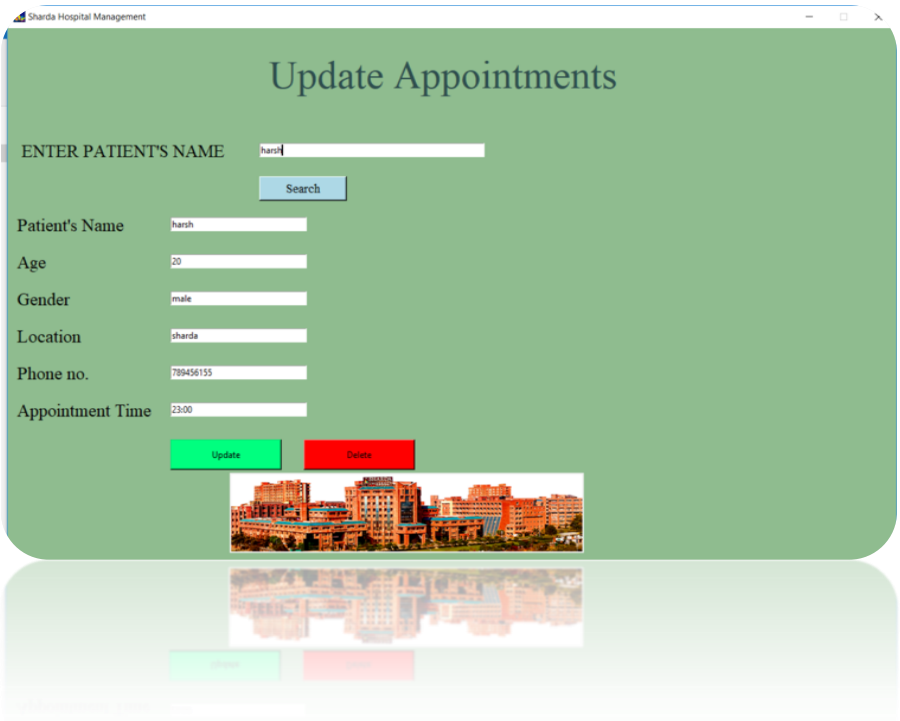
"UPDATE appointments SET NAME=?, AGE=?, GENDER=?, LOCATION=?, PHONE=?, SCHEDULED_TIME=? WHERE NAME LIKE ?“
"DELETE FROM appointments WHERE name LIKE ?"

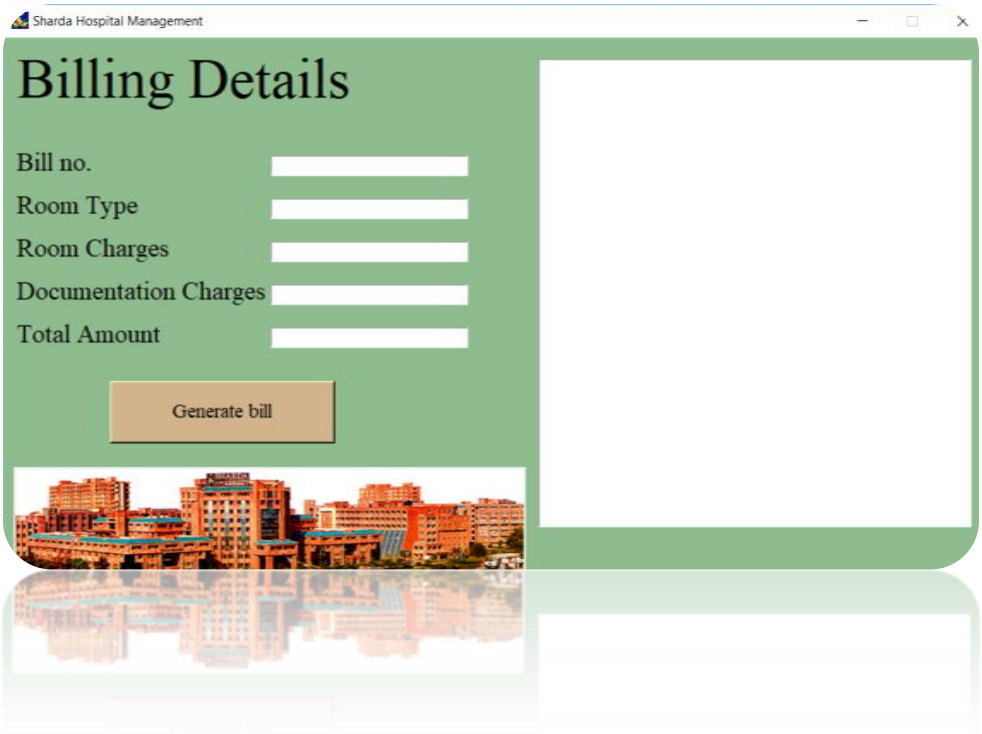
Images of front end


Sharda Hospital Management
Sharda Hospital
Patient's name
Age
Gender
Phone No.
Location
Appointment Time
Add Appointment
Appointment Logs
Total Appointments till now : 15


Sharda Hospital Management
Doctor's Details
Doctor's Name
Gender
Phone no.
Address
Department
Save

v


Sharda Hospital Management
Update Appointments
ENTER PATIENT'S NAME
harsh
Search
Patient's Name
harsh
Age
20
Gender
male
Location
sharda
Phone no.
789456155
Appointment Time
23:00
Update
Delete


Sharda Hospital Management
Billing Details
Bill no.
Room Type
Room Charges
Documentation Charges
Total Amount
Generate bill

THANK YOU