



Group Project
On

**CLINIC DATABASE MANAGEMENT
SYSTEM**

Submitted for
Relational Database Management System

To
Dr. Geetanjali Sahi

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DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

CERTIFICATE

This is to certify that Project Report entitled “Clinic Database Management System” which is submitted by **Daksh Kapoor, Nishant Bharadwaj, Rahul Bhutra, Prateek Rai** and **Aman Sareen** in partial fulfillment of the requirement for the award of degree PGDM Research and Business Analytics, is a record of the candidate own work carried out by him under my/our supervision. The matter embodied in this thesis is original and has not been submitted for the award of any other degree.

Date: 12.01.2022

Supervisor: Dr. Geetanjali Sahi

ACKNOWLEDGEMENT

I would like to express my acknowledgement for valuable efforts which I have taken in this project. However, it would not have been possible without the kind of support and help of many individuals. I would like to extend my sincere thanks to all of them.

I'm highly indebted to Dr. Geetanjali Sahi for the guidance and supervision as well as for providing necessary information and support regarding the project.

I would also like to thank everyone who helped me in providing necessary information, my thanks and appreciation also go to my colleague in developing and completing this project

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ABSTRACT

A **Database Design for Clinic Management System** is the final requirements in Database management system. The system for this database design will be created using XAMPP, SQL, PHP, and HTML. **Clinic Management System** is the one who can manage all the records of the **check-up, patients, appointments, doctor, doctor's schedule and allows admin and doctor to check, approve, decline scheduled appointments**. The main purpose of Clinic Management System is to maintain the details of the patients and make data retrieval easy and efficient.

OBJECTIVE

The objective for the Clinic Database Management system is aimed to manage the details of patients, doctors, support employees and appointments daily. The project is built on administrative end focuses to reduce the manual work of doctors and management to track details about the employees, upcoming appointments, new patient, patient's previous records, doctor's availability and any new joining doctor or patient.

1. LANGUAGES USED

1.1 FRONTEND: PHP EMBEDDED WITH HTML

PHP is a widely used open-source cross-platform, programming language that has been embedded with HTML for the project. This makes easy to handle we server and create dynamic page content to send to the database for further processing.

1.2 BACKEND: MYSQL

MySQL is a open source Relational Database Management System. MySQL is very fast reliable and flexible Database Management System. It provides a very high performance, and it is multi-threaded and multiuser Relational Database management system.

MySQL is one of the most popular relational database Management System on the web. The MySQL Database has become the world's most popular open source Database, because it is free and available on almost all the platforms. The MySQL can run on Unix , window, and Mac OS. MySQL is used for the internet applications as it provides good speed and is very secure. MySQL was developed to manage large volumes of data at very high speed to overcome the problems of existing solutions. MySQL can be used for variety of applications but it is mostly used for the web applications on the internet

1.3 APPLICATION SERVER: XAMPP SERVER

XAMPP is a free and open source cross-platform web server solution stack package, consisting mainly of the Apache HTTP Server, MySQL database, and interpreters for scripts written in the PHP and Perl programming languages.

This software is useful while you are creating dynamic webpages using programming languages like PHP, JSP, Servlets. XAMPP is sometimes used to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package.

1.4 HARDWARE AND SOFTWARE CONFIGURATION USED FOR THE PROJECT:

Front End	: PHP, HTML
Back End	: MySQL
Application Server	: Xampp Server
Operating System	: Windows
Processor	: Intel Core I5 (11 th Generation)
Processor Speed	: 2.42 GHz CPU
RAM	: 16 GB
Hard Disk	: 512 GB SSD

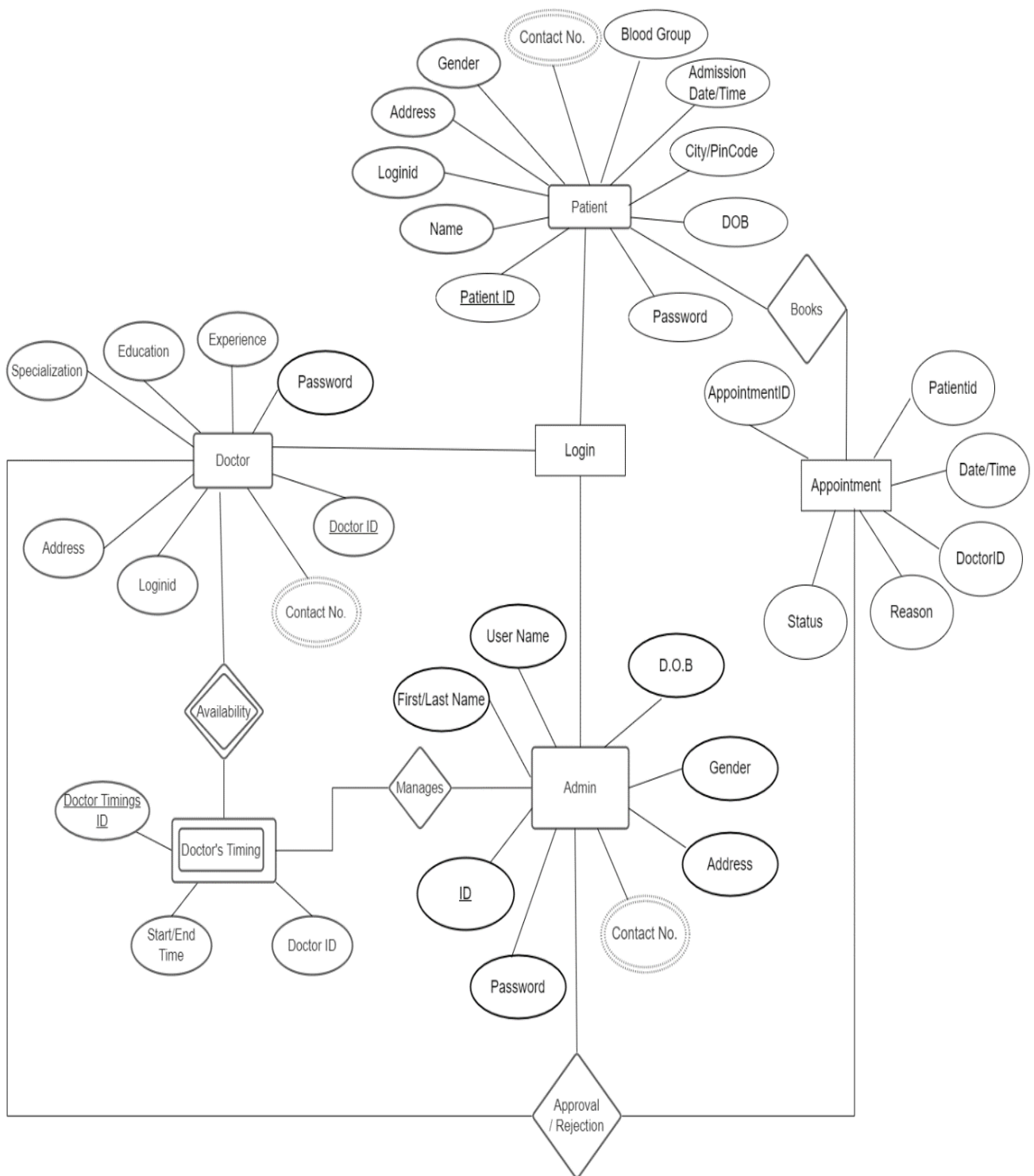
2. STRUCTURE OF THE PROGRAM:

This website covers features of Doctors Details, Patients Records, Online appointments. The project supports to administrator to access complete application, Patient takes appointment through Online/Offline, Doctors manages patient reports, admin approves patient's appointment.

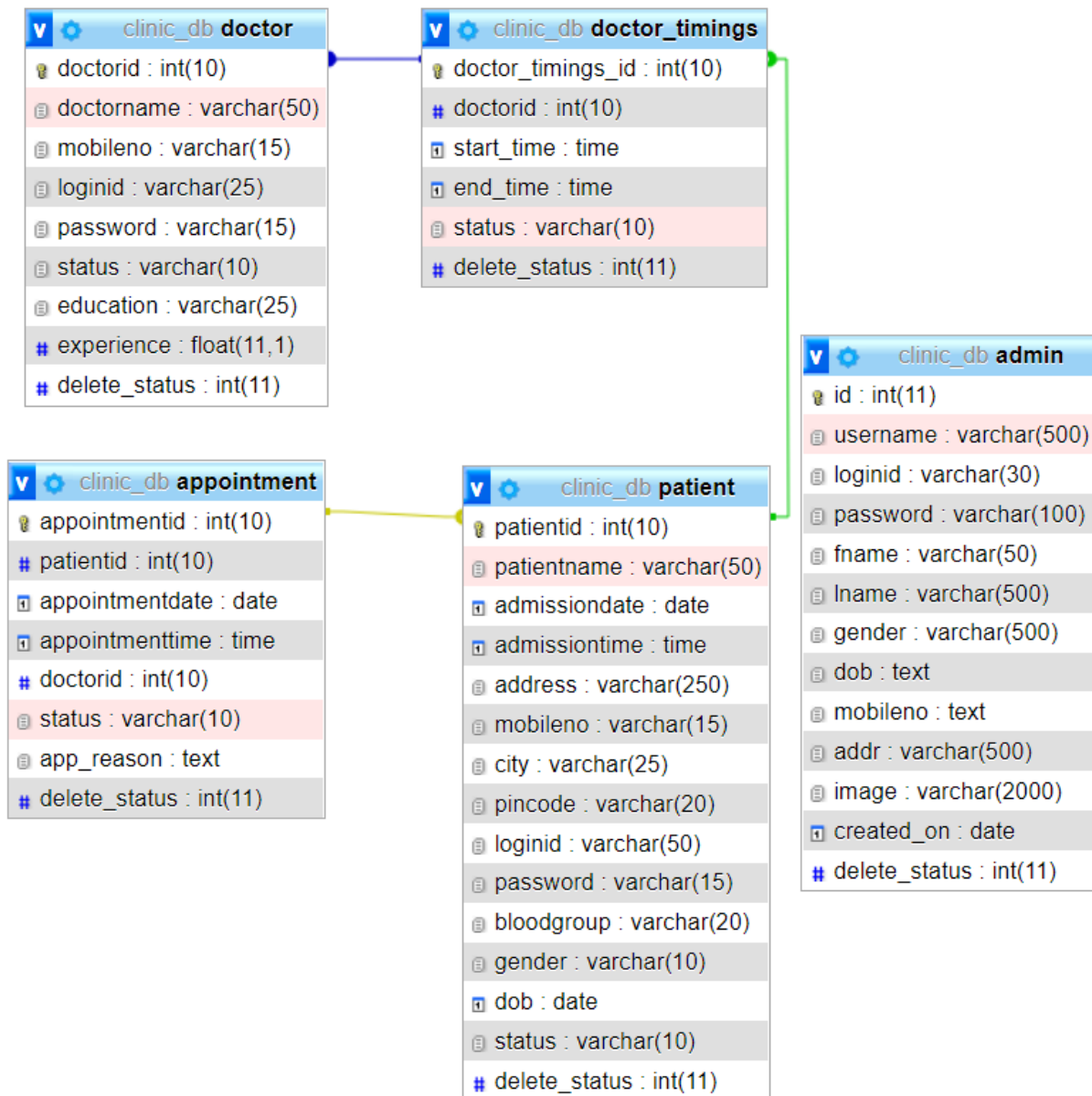
Each patient of our clinic has a unique patient ID and password. By entering User ID and password patient can login to their account through website and patient can view appointment details, make new appointment, doctor's schedule.

2.1 ENTITIES AND ATTRIBUTES USED:

Entity	Admin	Doctor	Doctor_timings	Patient	Appointment
Attributes	Id (primary key)	Doctorid (primary key)	doctor_timings_id (primary key)	Patientid (primary key)	Appointmentid (primary key)
	username	doctorname	doctorid	patientname	patientid (foreign key)
	loginid	mobilenos	start_time	admissiondate	appointmentdate
	password	loginid	end_time	admissiontime	appointmenttime
	fname	password	status	address	doctorid (foreign key)
	lname	status		mobilenos	status
	gender	education		city	app_reason
	dob	experience		pincode	
	mobilenos			loginid	
	Addr			password	
				bloodgroup	
				gender	
				dob	
				status	



ER Diagram



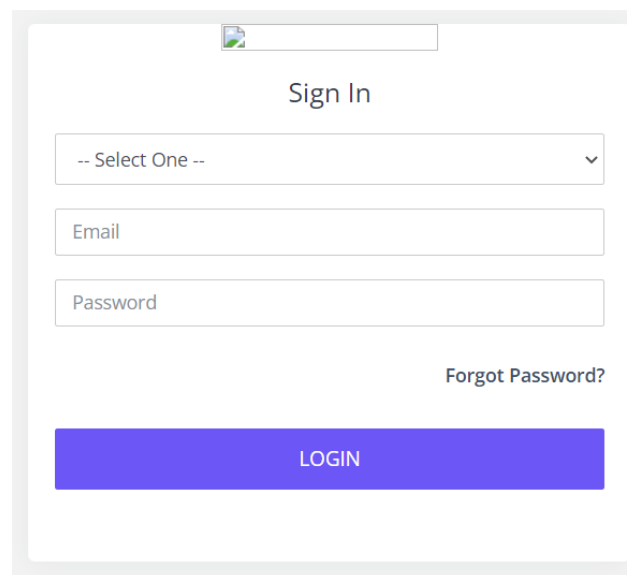
Mapping of Database

3. SYSTEM FEATURES

3.1 LOGIN ACCOUNT:

To open the user account the users, must enter login information. The Login account consists of email id, password and the login can be done by Admin, Doctor and Patient.

User must enter valid user id and password to open user page. If it is valid then it links to user account page. It is mandatory to login for user to approve appointment, schedule an appointment, to view visiting hours, view pending appointments.

A screenshot of a web application's login page. At the top, there is a small profile picture placeholder. Below it, the text "Sign In" is centered. Underneath, there is a dropdown menu with the text "-- Select One --" and a downward arrow. Below the dropdown are two input fields: "Email" and "Password". To the right of the "Password" field, there is a link that says "Forgot Password?". At the bottom of the form, there is a large blue button with the text "LOGIN" in white capital letters.

Login Page

3.2 ADMIN'S MODULE:

Admin is a super-user. He/she is able to control the whole system. Admin can add, delete, update and modify the system.

3.2.1 ONLINE APPOINTMENT:

Admin can add new appointments, can view pending appointments wherein admin can approve or decline the appointments and can view previously approved appointments.

Navigation

- Dashboard
- Appointment
- Doctors
- Patients
- Logout

Appointment

Patient: -- Select One --

Date: dd-mm-yyyy

Time: --:--

Doctor: Select Doctor

Status: -- Select One --

Reason: Reason....

Submit

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New Appointment

Navigation

- Dashboard
- Appointment
- Doctors
- Patients
- Logout

Pending Appointment

Show: 10 entries

Search:

Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action
No data available in table					
Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action

Showing 0 to 0 of 0 entries

Previous Next

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View Pending Appointments

Navigation

- Dashboard
- Appointment
- Doctors
- Patients
- Logout

Appointment Approved

Show: 10 entries

Search:

Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action
Gaurav sharma 2223335556	10-Jan-2022 20:15 PM	Daksh Kapoor	covid	Approved	View Report
Parag Joshi 8890531970	09-Jan-2022 16:15 PM	Daksh Kapoor	flu	Approved	View Report
Parag Joshi 8890531970	14-Jan-2022 20:10 PM	Daksh Kapoor	fever	Approved	View Report
Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action

Showing 1 to 3 of 3 entries

Previous 1 Next

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View Approved appointments

3.2.2 DOCTORS:

Admin can add new doctors joining the clinic and can also view and edit previously working doctors' detail.

The screenshot shows the 'New Doctor' form in the admin dashboard. The form is titled 'Doctor' and is located in the 'Doctors' section of the sidebar. The form fields are: Doctor Name (text input), Mobile No (text input), Login Id (text input), Password (text input), Confirm Password (text input), Education (text input), Experience (text input), Consultancy Charge (text input), and Status (dropdown menu). A 'Submit' button is located at the bottom of the form. The sidebar on the left contains links to Dashboard, Appointment, Doctors, Patients, and Logout. The top right corner shows the user profile 'Rahul Bhutra'.

Doctor Name	Mobile No	Login Id	Password	Confirm Password	Education	Experience	Consultancy Charge	Status
Enter name....	Enter mobilenumber....							-- Select One --

New Doctor

The screenshot shows the 'View Doctors' table in the admin dashboard. The table is titled 'Doctor' and is located in the 'Doctors' section of the sidebar. The table has 9 columns: Doctor Name, Mobile Number, Department, Login ID, Consultancy Charge, Education, Experience, Status, and Action. The table contains 3 rows of data. The 'Action' column has 'Edit' and 'Delete' buttons for each row. The sidebar on the left contains links to Dashboard, Appointment, Doctors, Patients, and Logout. The top right corner shows the user profile 'Rahul Bhutra'.

Doctor Name	Mobile Number	Department	Login ID	Consultancy Charge	Education	Experience	Status	Action
Rahul Bhutra	9876543218	drb@gmail.com	Cardiologist	5.0 year	Active			Edit Delete
Daksh Kapoor	7485153640	daksh@gmail.com	MD	3.0 year	Active			Edit Delete
Nishant Bharadwaj	9971993407	nishant@gmail.com	MBBS	6.5 year	Active			Edit Delete

View Doctors

3.2.3 PATIENTS:

Admin can add a new patient manually into the database and can view records of already existing patients.

Navigation: Dashboard, Appointment, Doctors, Patients, Logout

Patient

Patient Name: Mobile No:

Admission Date: Admission Time:

Login ID: Blood Group:

City: PIN Code:

Password: Confirm Password:

Gender: Date of Birth:

Address:

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New Patient

Patients Name	Admission details	Address	Patient Profile	Action
Arun Kapoor Login ID : ak@gmail.com	Date: 2022-01-10 Time: 18:00:06	Sector 34 Faridabad - 130098 Mob No. - 8828423435	Blood group - O+ Gender - Male DOB - 1988-06-24	Status - Inactive <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="View Report"/>
Gaurav sharma Login ID : gs@gmail.com	Date: 2021-11-25 Time: 20:44:58	Rohini Delhi - 110024 Mob No. - 2223335556	Blood group - A- Gender - Male DOB - 1998-11-17	Status - Inactive <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="View Report"/>
Parag Joshi Login ID : pj@gmail.com	Date: 2021-01-09 Time: 11:45:00	Dwarka New Delhi - 123445 Mob No. - 8890531970	Blood group - B+ Gender - Male DOB - 1998-12-11	Status - Active <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="View Report"/>
Tushar Gupta Login ID : tg@gmail.com	Date: 2021-10-22 Time: 11:00:00	Inderlok Delhi - 123469 Mob No. - 9423979339	Blood group - B+ Gender - Male DOB - 1995-07-25	Status - Active <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="View Report"/>
Utsavsha Login ID : Ut@gmail.com	Date: 2021-11-17 Time: 01:08:32	Sector 56 Noida - 122041 Mob No. - 6666444433	Blood group - B+ Gender - Female DOB - 1998-08-19	Status - Active <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="button" value="View Report"/>

Showing 1 to 5 of 5 entries


Previous Next

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View Patient Record

3.3 DOCTORS MODULE:

Doctors can check appointments taken by patients. As well as approve or reject the patient's appointment considering as per doctor's schedule. Doctor can change his/her visiting hours as per his/her schedule. The doctor can also view the patients record.



Search

Refresh

Rahul Bhutra

Navigation

Dashboard

Appointment

Doctors

Patients

Logout

Pending Appointment

Home

 / Pending Appointment / Pending Appointment

Show 10 entries

Search:

Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action
No data available in table					
Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action


Showing 0 to 0 of 0 entries

Previous

Next

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Pending Appointments



Search

Refresh

Rahul Bhutra

Navigation

Dashboard

Appointment

Doctors

Patients

Logout

Appointment Approved

Home

 / Appointment Approved / Appointment Approved

Show 10 entries

Search:

Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action
Gaurav sharma 2223335556	10-Jan-2022 20:15 PM	Daksh Kapoor	covid	Approved	View Report
Parag Joshi 8890531970	09-Jan-2022 16:15 PM	Daksh Kapoor	flu	Approved	View Report
Parag Joshi 8890531970	14-Jan-2022 20:10 PM	Daksh Kapoor	fever	Approved	View Report
Patient detail	Appointment Date & Time	Doctor	Appointment Reason	Status	Action

Showing 1 to 3 of 3 entries


Previous

1

Next

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Approved Appointments



Search

Refresh

Rahul Bhutra

Navigation

Dashboard

Appointment

Doctors

Patients

Logout

Visiting Hour

Home

 / Visiting Hour / Visiting Hour

Form

--:--

🕒

To

--:--

🕒

Status

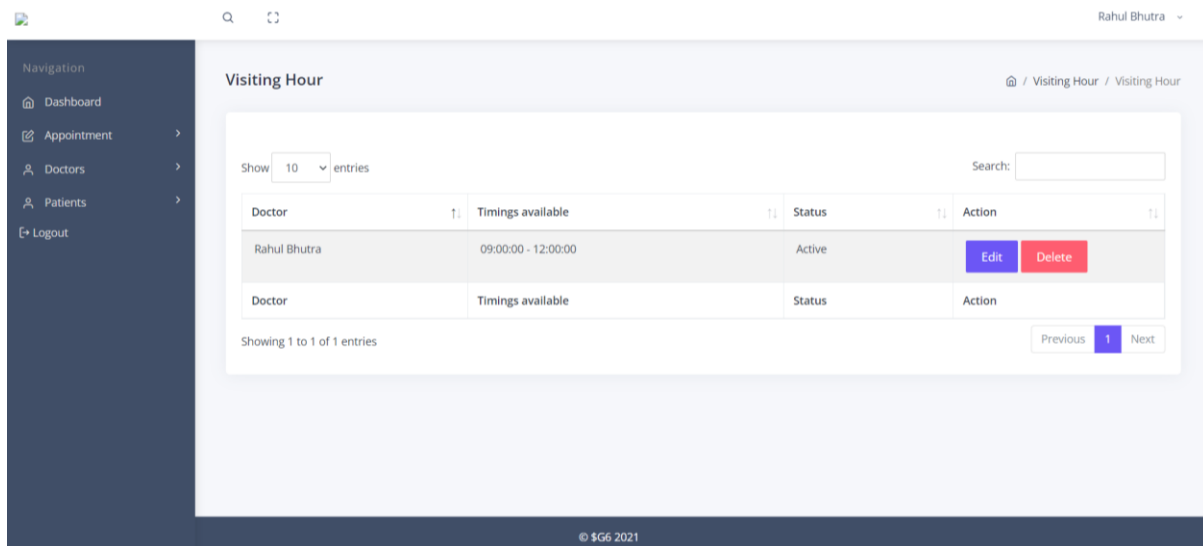
-- Select One --

▼

Submit

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New Visiting Hours



Visiting Hours

Patient Records

Showing 1 to 5 of 5 entries

Patient Name	Admission details	Address	Patient Profile	Action
Arun Kapoor Login ID : ak@gmail.com	Date: 2022-01-10 Time: 18:00:06	sector 34 Faridabad - 130098 Mob No. - 8826423435	Blood group - O+ Gender - Male DOB - 1986-06-24	Status - InActive
Gaurav sharma Login ID : gs@gmail.com	Date: 2021-11-25 Time: 20:44:58	Rohini Delhi - 110024 Mob No. - 2223335556	Blood group - A- Gender - Male DOB - 1998-11-17	Status - InActive
Parag Joshi Login ID : pj@gmail.com	Date: 2021-01-09 Time: 11:45:00	Dwarka New Delhi - 123445 Mob No. - 8890531970	Blood group - B+ Gender - Male DOB - 1998-12-11	Status - Active
Tushar Gupta Login ID : tg@gmail.com	Date: 2021-10-22 Time: 11:00:00	Inderlok Delhi - 123469 Mob No. - 9423979339	Blood group - B+ Gender - Male DOB - 1995-07-25	Status - Active
Utkarsha Login ID : Ut@gmail.com	Date: 2021-11-17 Time: 01:08:32	Sector 56 Noida - 122041 Mob No. - 6666444433	Blood group - B+ Gender - Female DOB - 1998-08-19	Status - Active

Patient Records

3.3 PATIENTS MODULE:

Patient can take appointment and can view his/her previous appointments.

Navigation

- Dashboard
- Appointment
- Logout

Appointment

Patient: -- Select One --

Date: dd-mm-yyyy

Time: --:--

Doctor: Select Doctor

Status: -- Select One --

Reason: Reason....

Submit

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New Appointments

Navigation

- Dashboard
- Appointment
- Logout

View Appointments Record

Show 10 entries

Search:

Patient detail	Appointment Date & Time	Doctor	Reason	Status	Action
Gaurav sharma 2223335556	10-Jan-2022 20:15 PM	Daksh Kapoor	covid	Approved	View Report

Showing 1 to 1 of 1 entries

Previous 1 Next

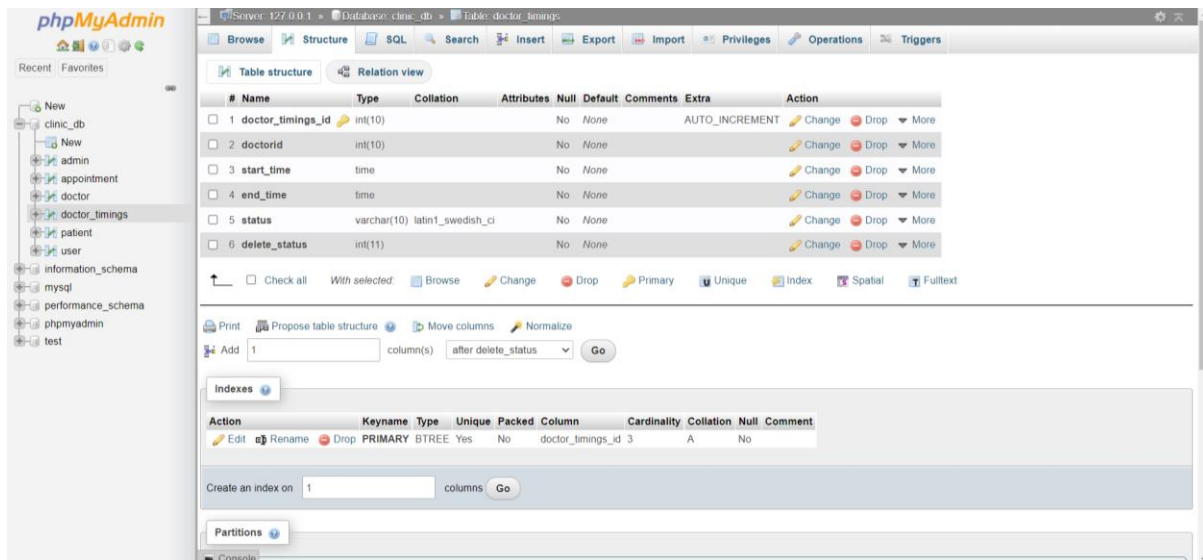
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View Appointment Records

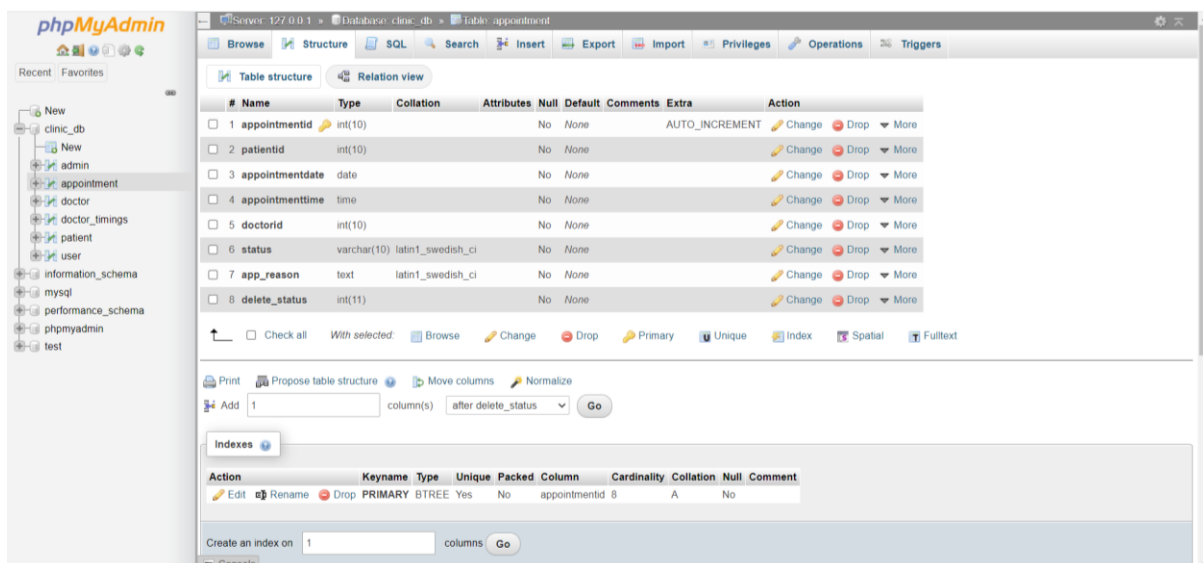
4. DATABASE:

The name of our database is clinic_db. Consists of 5 entities with their attributes and schemas as follows:

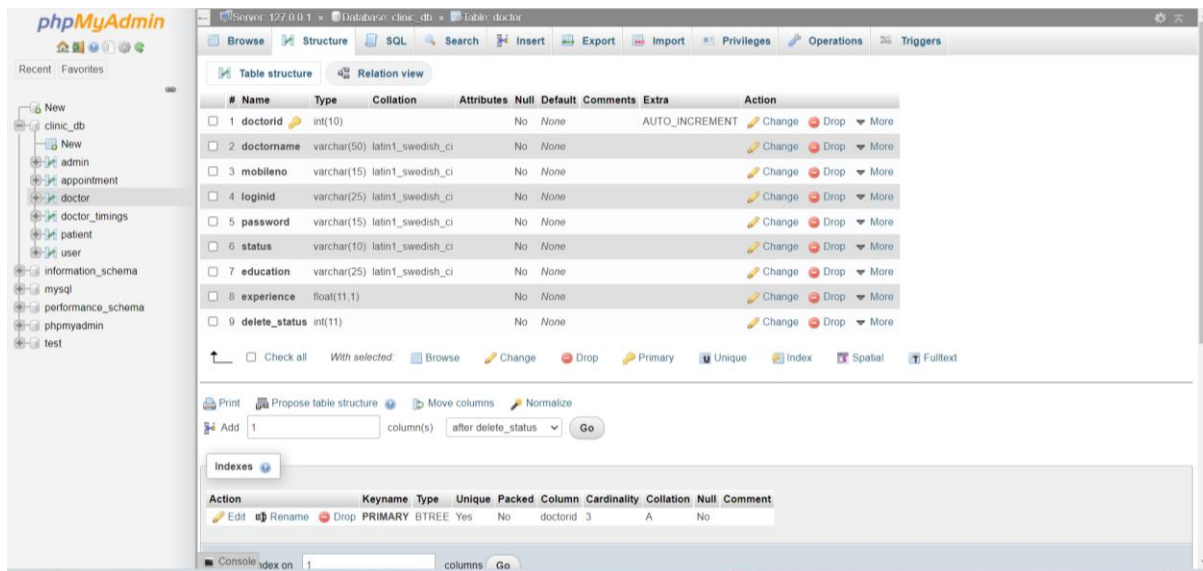
1. Admin: Id (primary key), username, loginid, password, fname, lname, gender, dob, mobileno, Addr



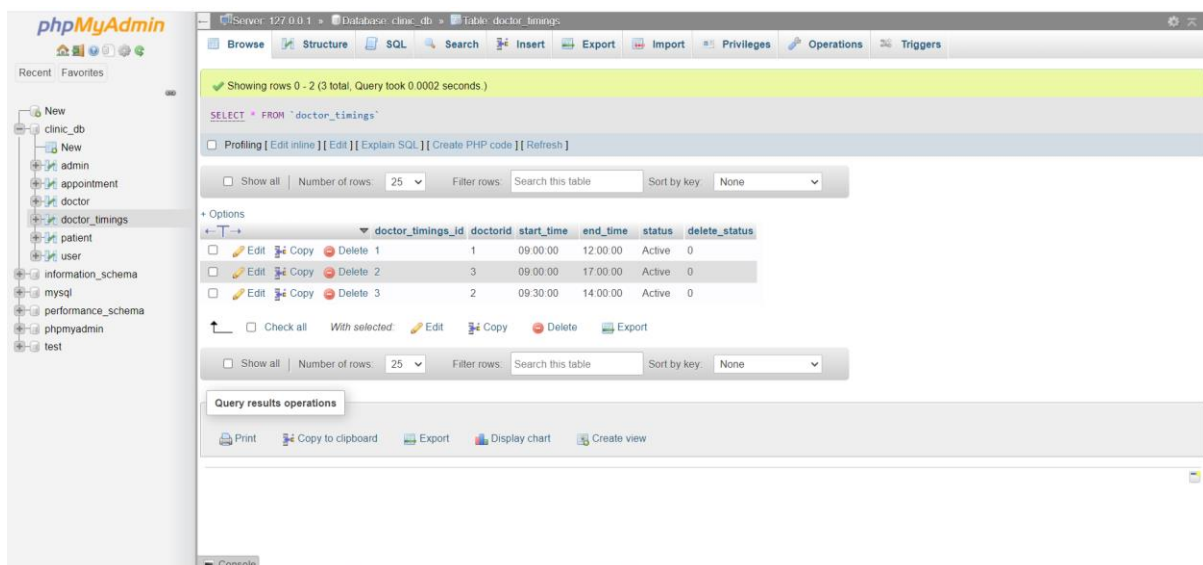
2. Appointment: Appointmentid (primary key), patientid(foreign key), appointmentdate, appointmenttime, doctorid (foreign key), status, app_reason



3. Doctor: Doctorid (primary key), doctorname, mobileno, loginid, password, status, education, experience



4. Doctor_timings: doctor_timings_id (primary key), doctored, start_time, end_time, status



5. Patient: Patientid (primary key), patientname, admissiondate, admissiontime, address, mobileno, city, pincode, loginid, password, bloodgroup, gender, dob, status

Server: 127.0.0.1 * Database: clinic_db * Table: patient

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	patientid	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	patientname	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
3	admissiondate	date			No	None			Change Drop More
4	admissiontime	time			No	None			Change Drop More
5	address	varchar(250)	latin1_swedish_ci		No	None			Change Drop More
6	mobilen	varchar(15)	latin1_swedish_ci		No	None			Change Drop More
7	city	varchar(25)	latin1_swedish_ci		No	None			Change Drop More
8	pincode	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
9	loginid	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
10	password	varchar(15)	latin1_swedish_ci		No	None			Change Drop More
11	bloodgroup	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
12	gender	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
13	dob	date			No	None			Change Drop More
14	status	varchar(10)	latin1_swedish_ci		No	None			Change Drop More
15	delete_status	int(11)			No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

Propose table structure Move columns Normalize

CONCLUSION:

On Completion of project, we were able to create a working model of clinic database management system implementing the features (for admin, doctors and patients) intended to smoothen the workflow at the clinic. The scope of the project is extensive to manage a clinic on for all kinds of users and create easy to navigate, schedule, view and register for a new user.