Group Project
On

CLINIC DATABASE MANAGEMENT SYSTEM

Submitted for
Relational Database Management System

To
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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.

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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 Clinc 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 sourcecross-platformweb 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 (11th Generation)
Processor Speed	: 2.42 GHz CPU
RAM	: 16 GB
Hard Disk	: 512 GB SSD

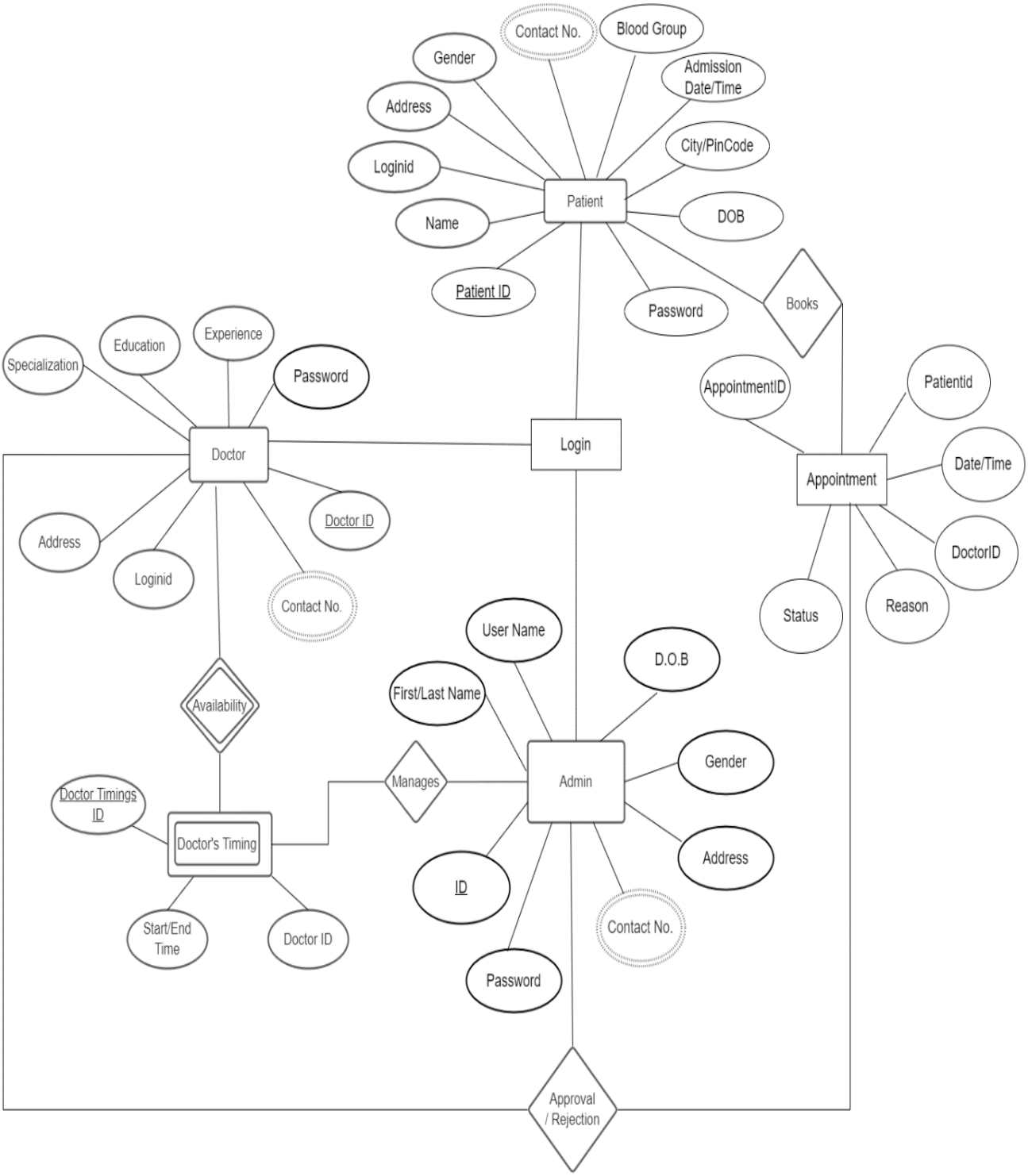
2. STRUCTURE OF THE PROGRAM:

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.

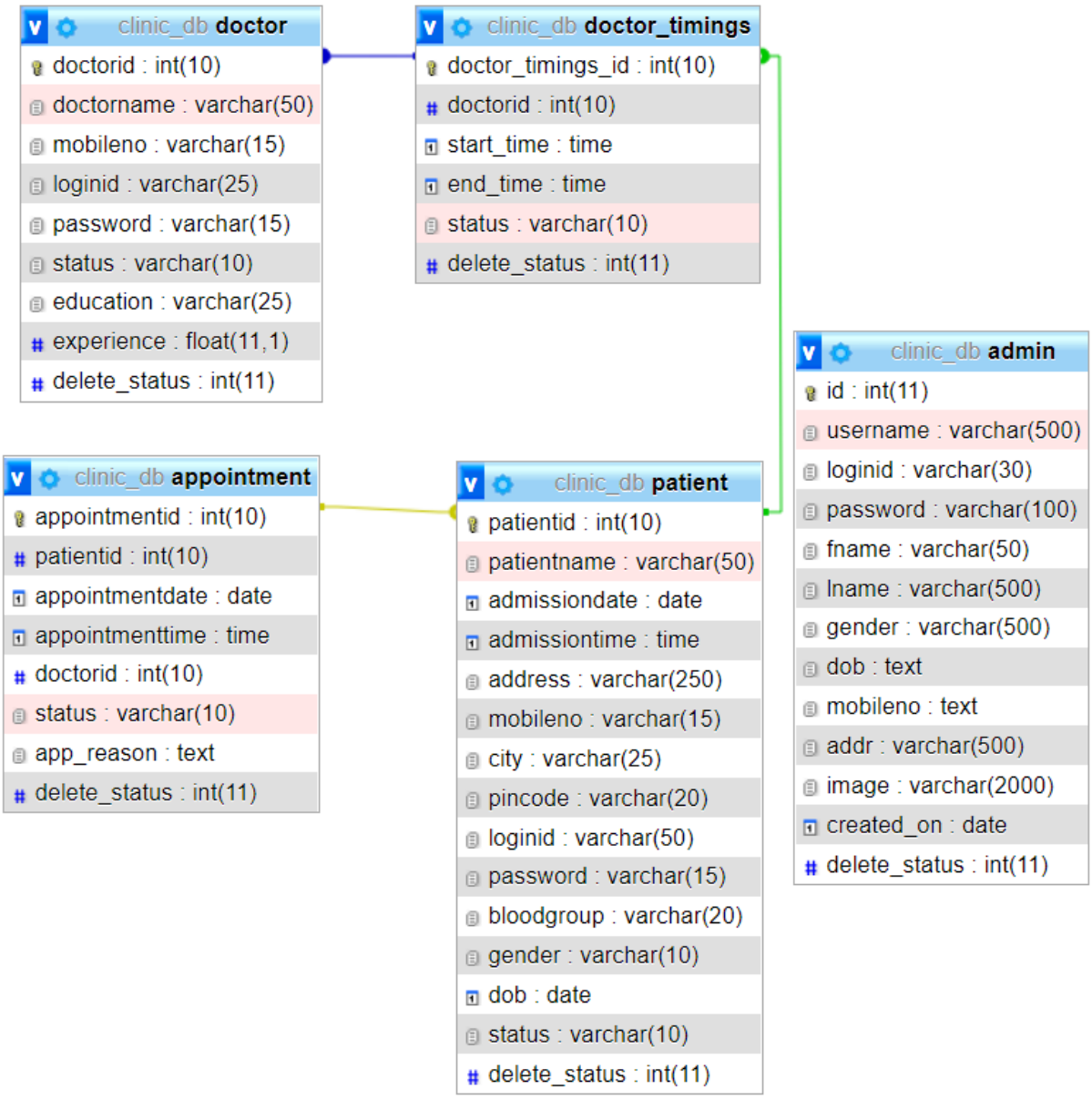
Each patient of our clinic has a unique patient ID and password. By entering User ID and password patient can login to their account through website and patient can view appointment details, make new appointment, doctor's schedule.

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	mobileno	start_time	admissiondate	appointmentdate
	password	loginid	end_time	admissiontime	appointmenttime
	fname	password	status	address	doctorid (foreign key)
	lname	status		mobileno	status
	gender	education		city	app_reason
	dob	experience		pincode	
	mobileno			loginid	
	Addr			password	
				bloodgroup	
				gender	
				dob	
				status	


Contact No.
Blood Group
Gender
Admission Date/Time
Address
City/PinCode
Loginid
Patient
Name
DOB
Patient ID
Password
Books
Specialization
Education
Experience
Password
AppointmentID
Patientid
Doctor
Login
Appointment
Date/Time
Address
Doctor ID
DoctorID
Loginid
Contact No.
Status
Reason
User Name
D.O.B
Availability
First/Last Name
Gender
Doctor Timings ID
Manages
Admin
Doctor's Timing
Address
ID
Contact No.
Start/End Time
Doctor ID
Password
Approval / Rejection

ER Diagram



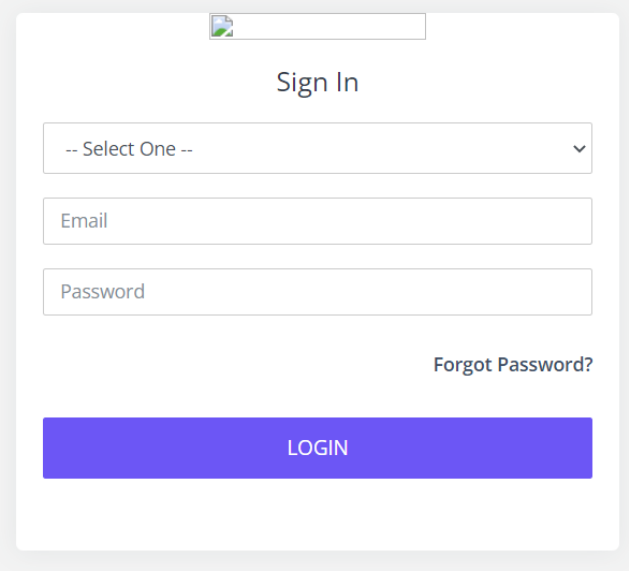
Mapping of Database

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.



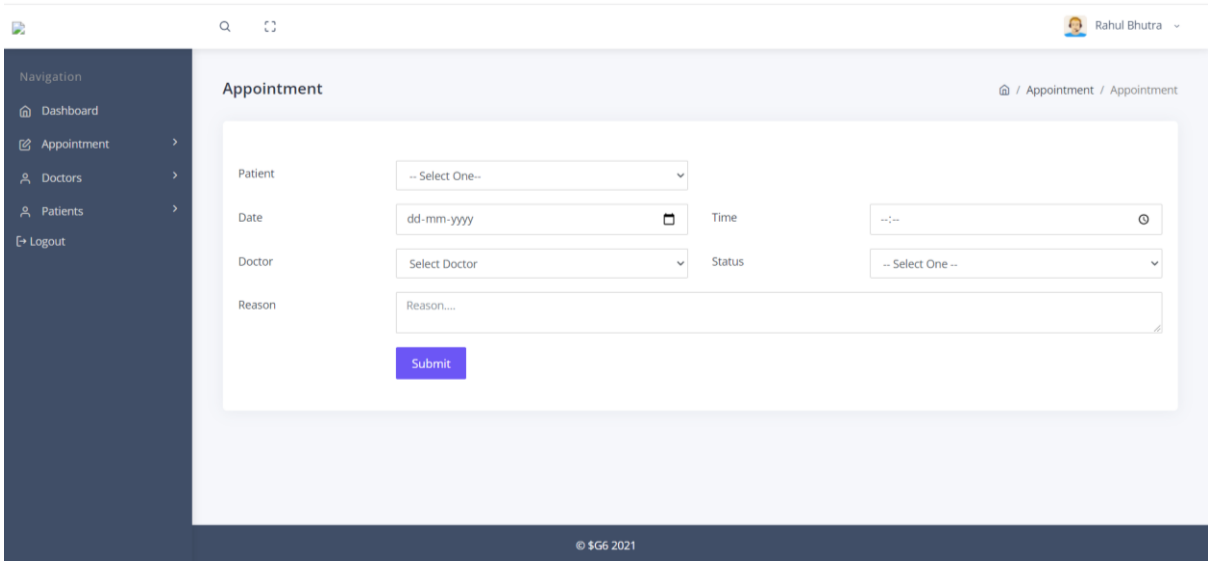
Login Page

3.2 ADMIN'S MODULE:

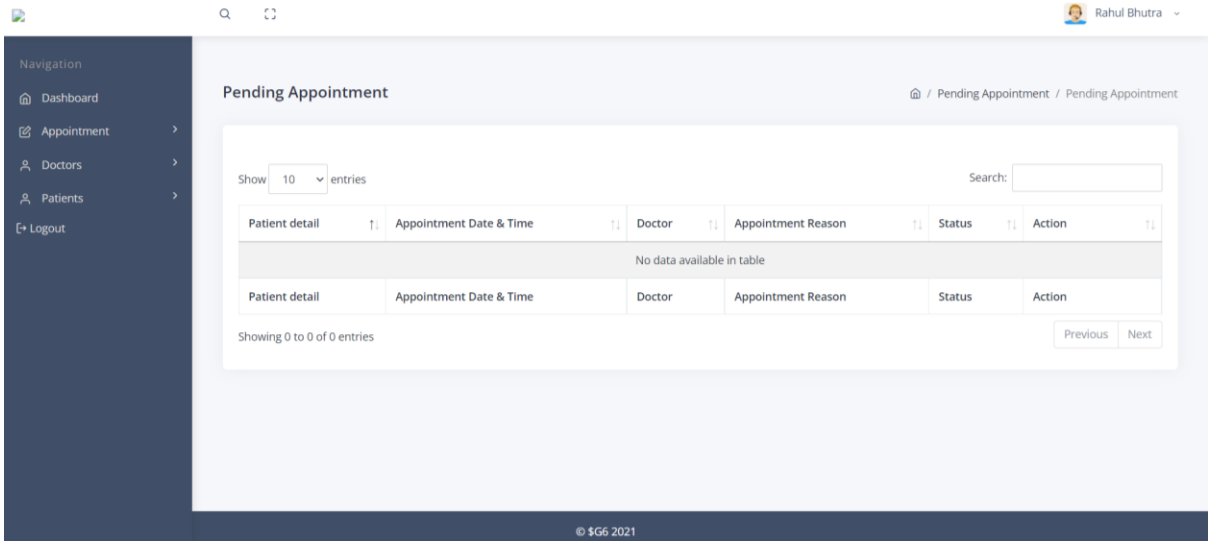
Admin is a super-user. He/she is able to control the whole system. Admin can add, delete, update and modify the system.

3.2.1 ONLINE APPOINTMENT:

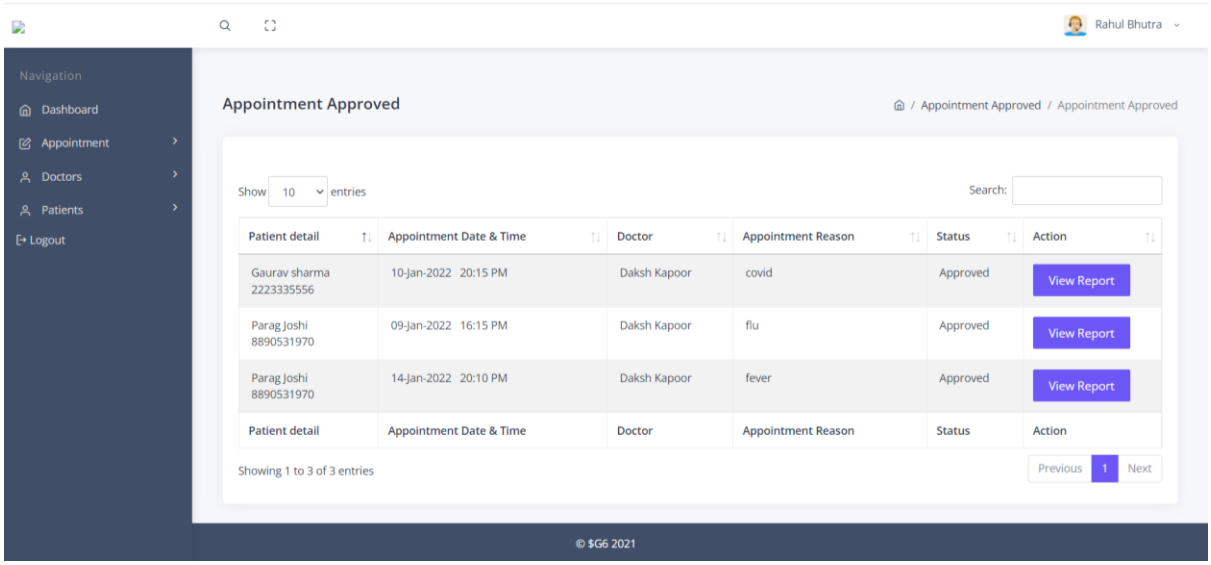
Admin can add new appointments, can view pending appointments wherein admin can approve or decline the appointments and can view previously approved appointments.



New Appointment



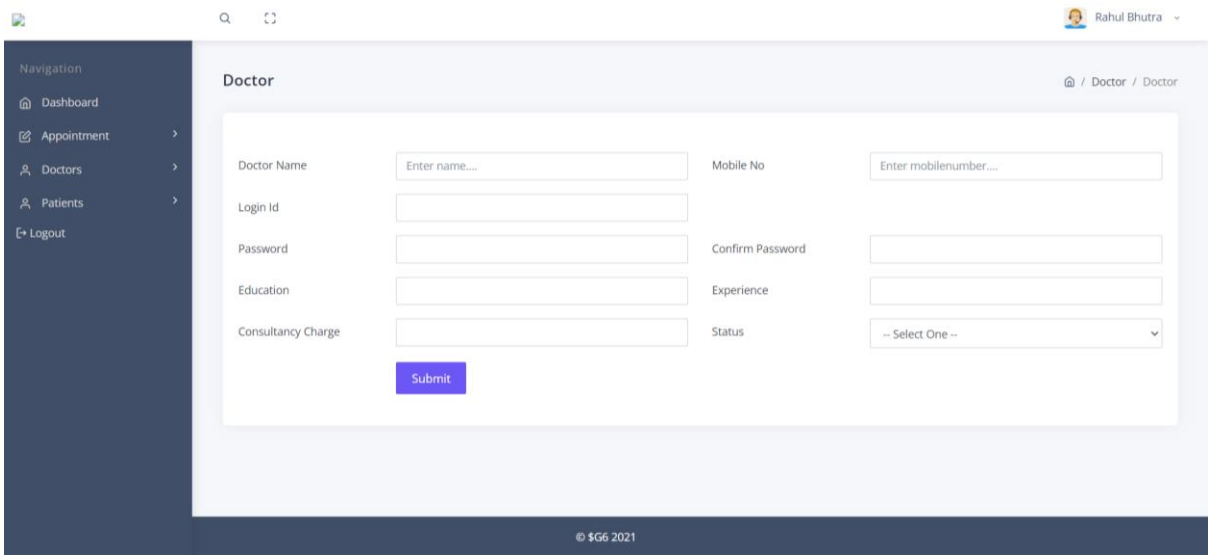
View Pending Appointments



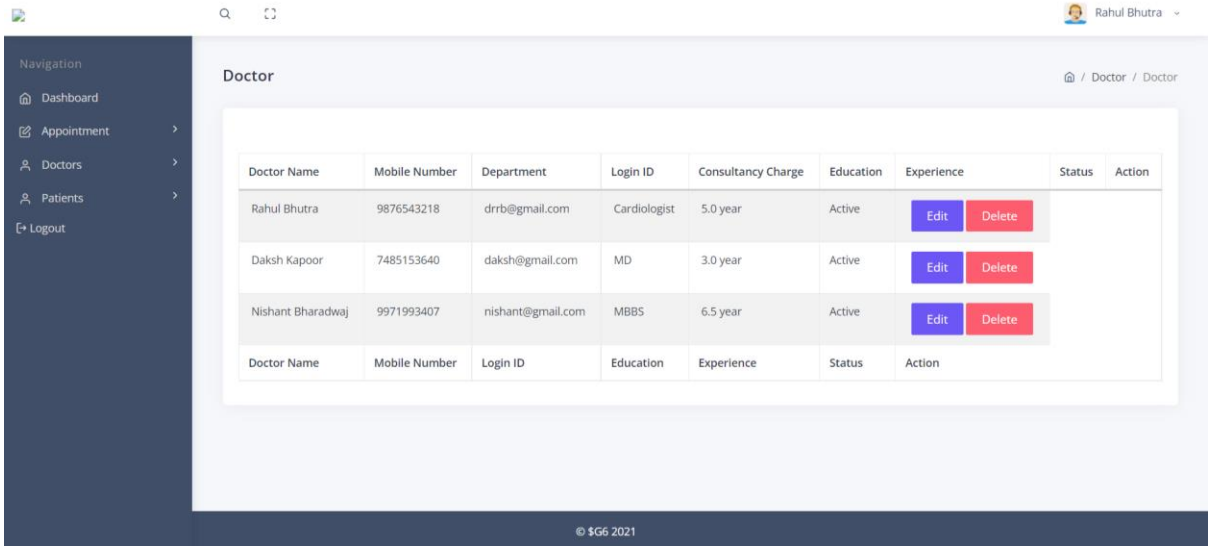
View Approved appointments

3.2.2 DOCTORS:

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



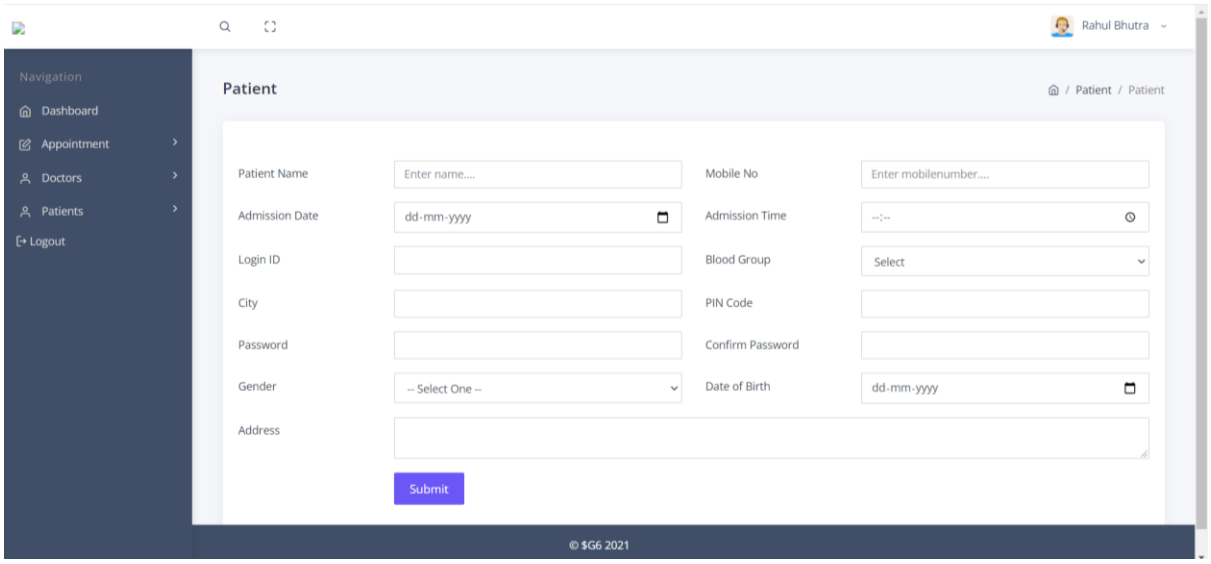
New Doctor



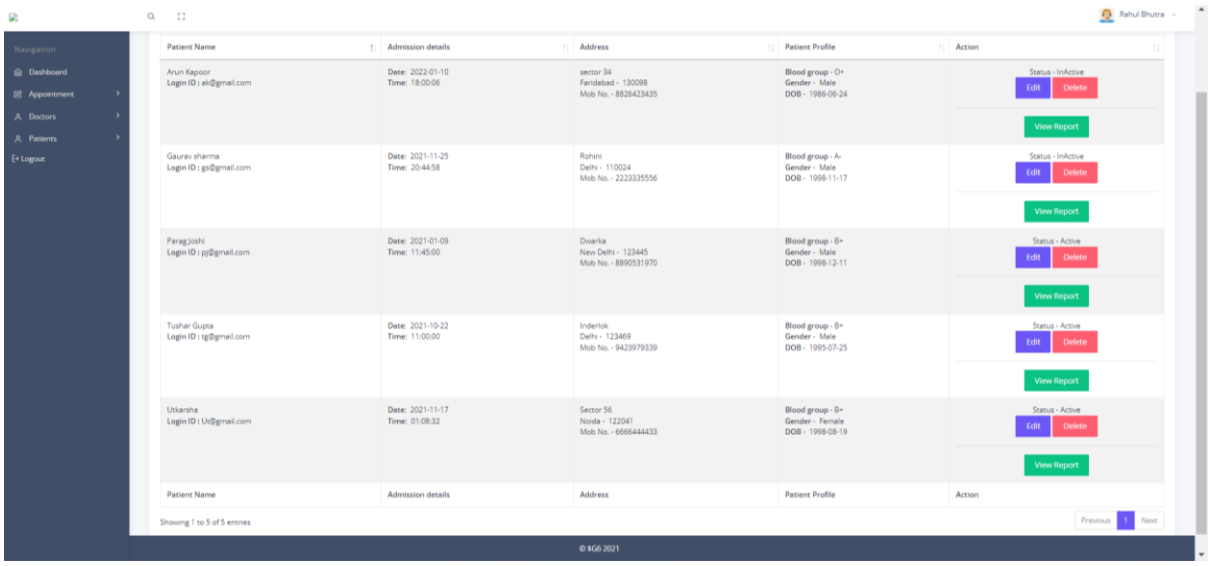
View Doctors

3.2.3 PATIENTS:

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



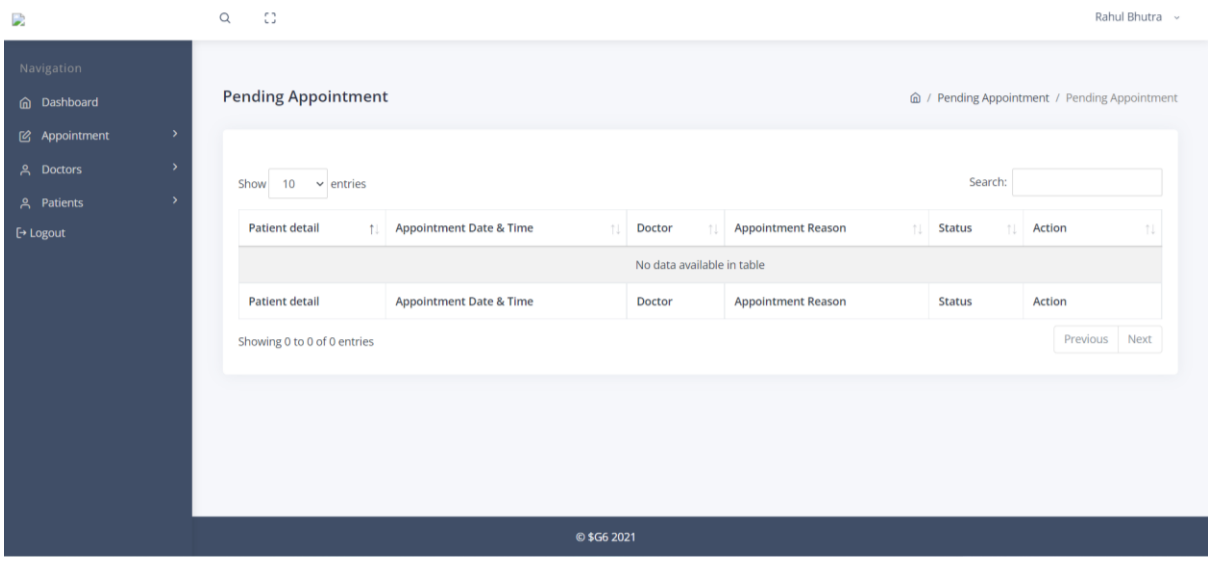
New Patient



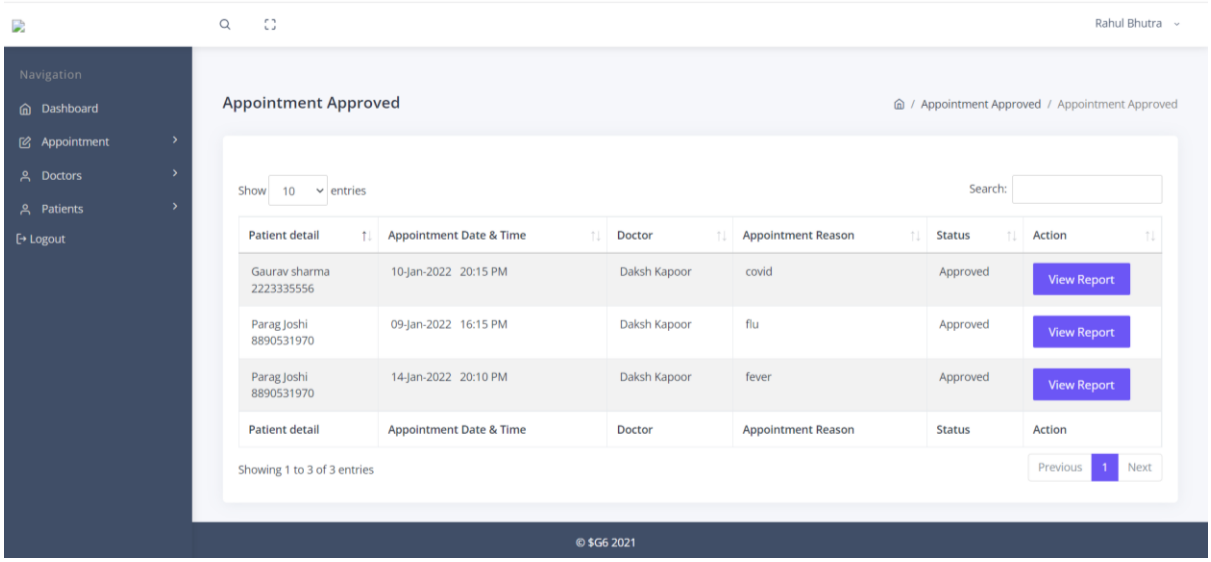
View Patient Record

3.3 DOCTORS MODULE:

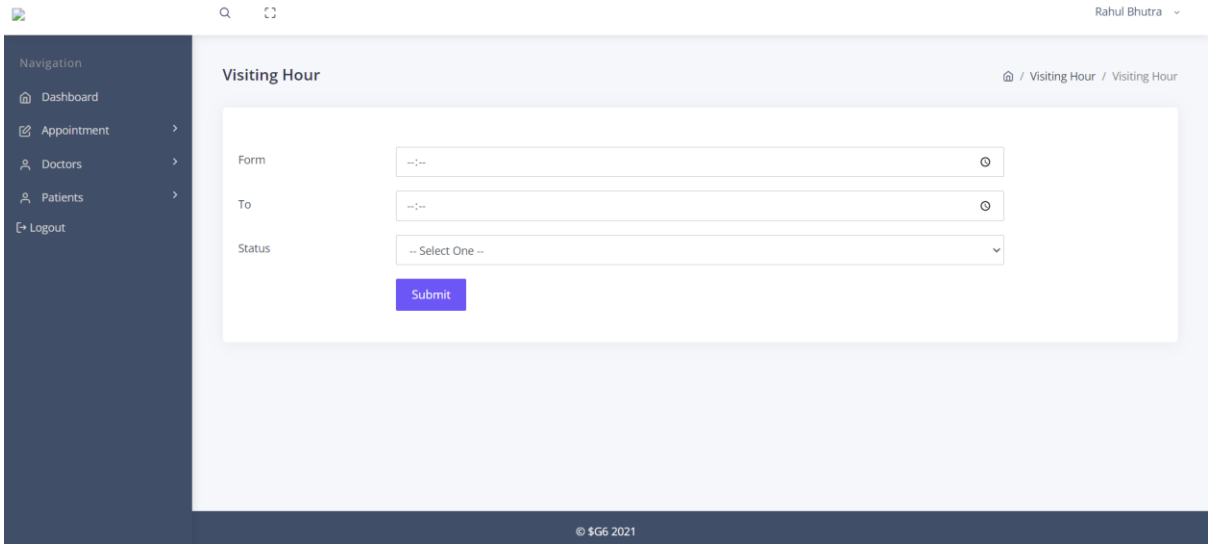
Doctors can check appointments taken by patients. As well as approve or reject the patient's appointment considering as per doctor's schedule. Doctor can change his/her visiting hours as per his/her schedule. The doctor can also view the patients record.



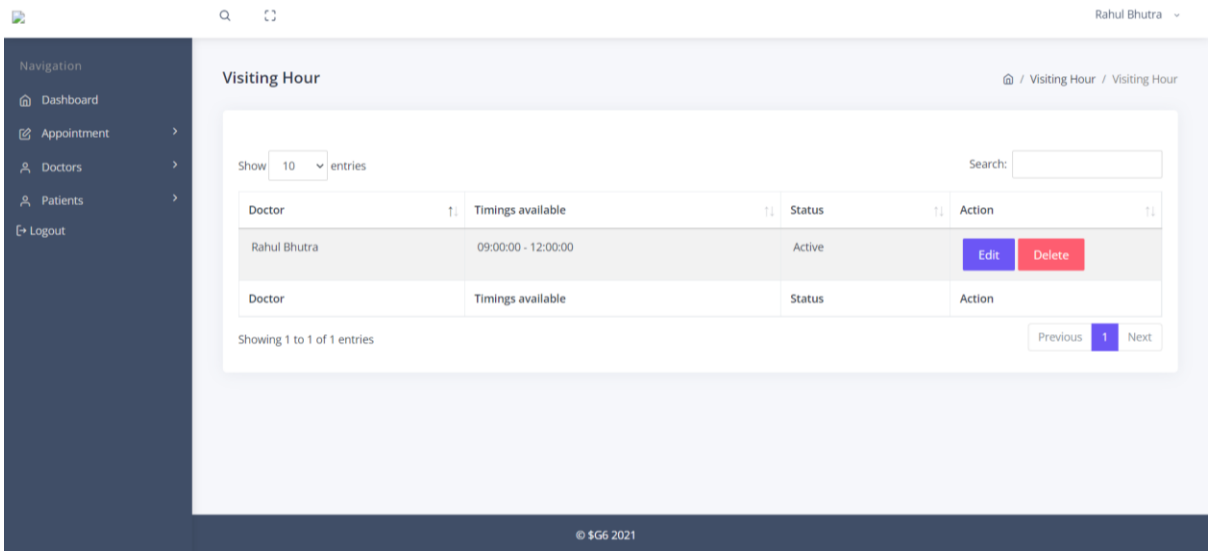
Pending Appointments



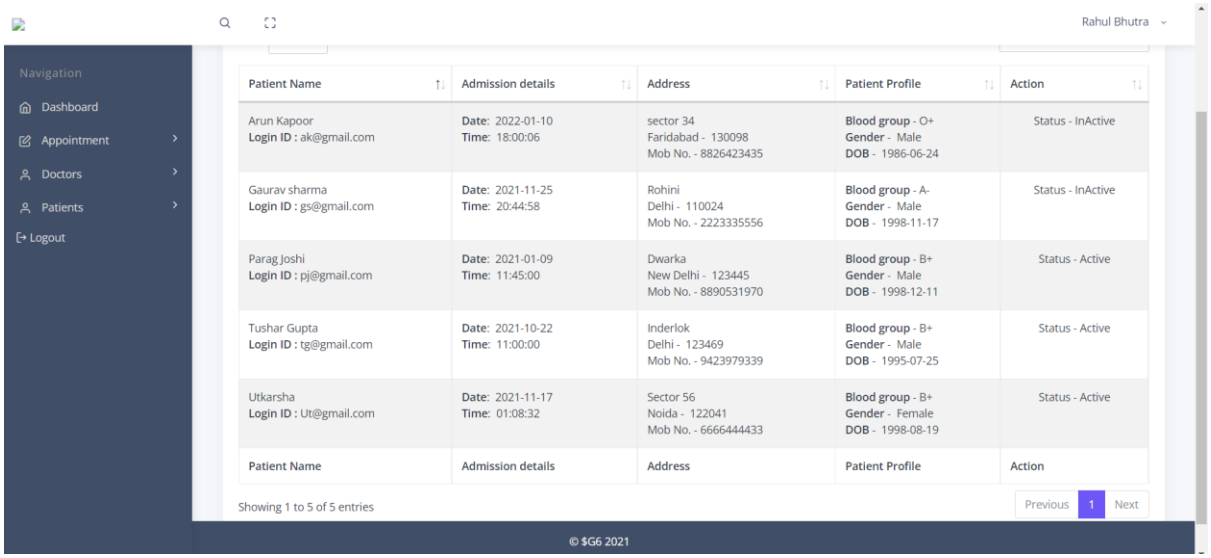
Approved Appointments



New Visiting Hours



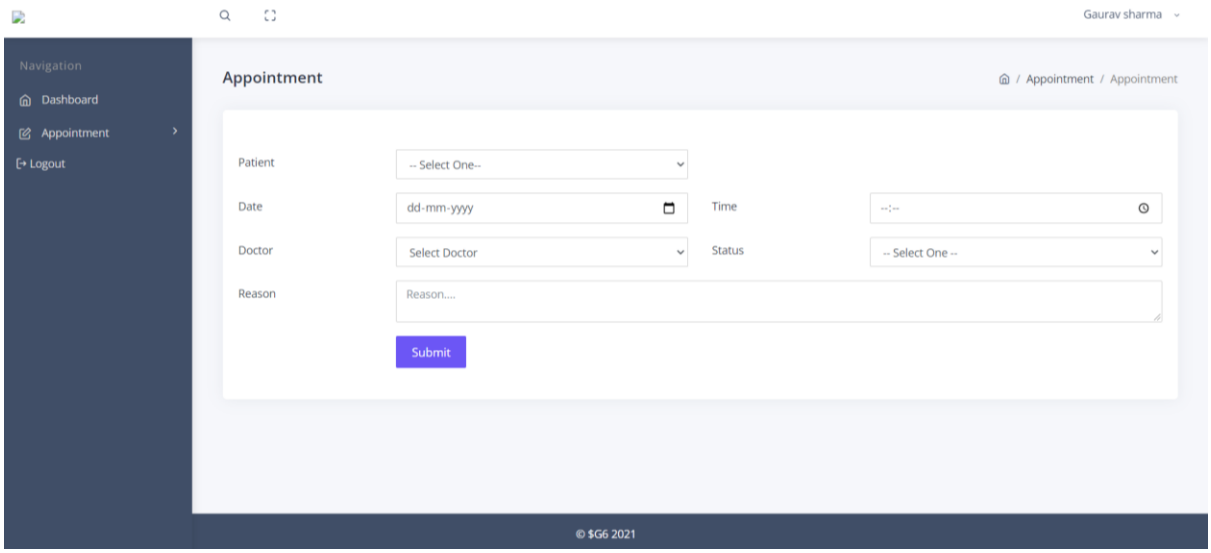
Visiting Hours



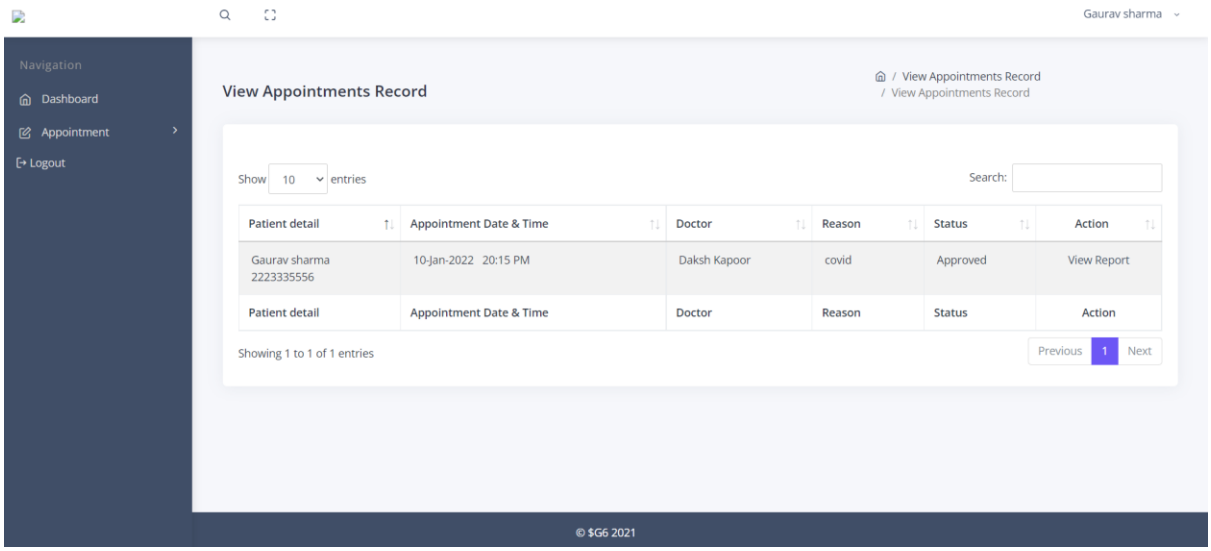
Patient Records

3.3 PATIENTS MODULE:

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



New Appointments

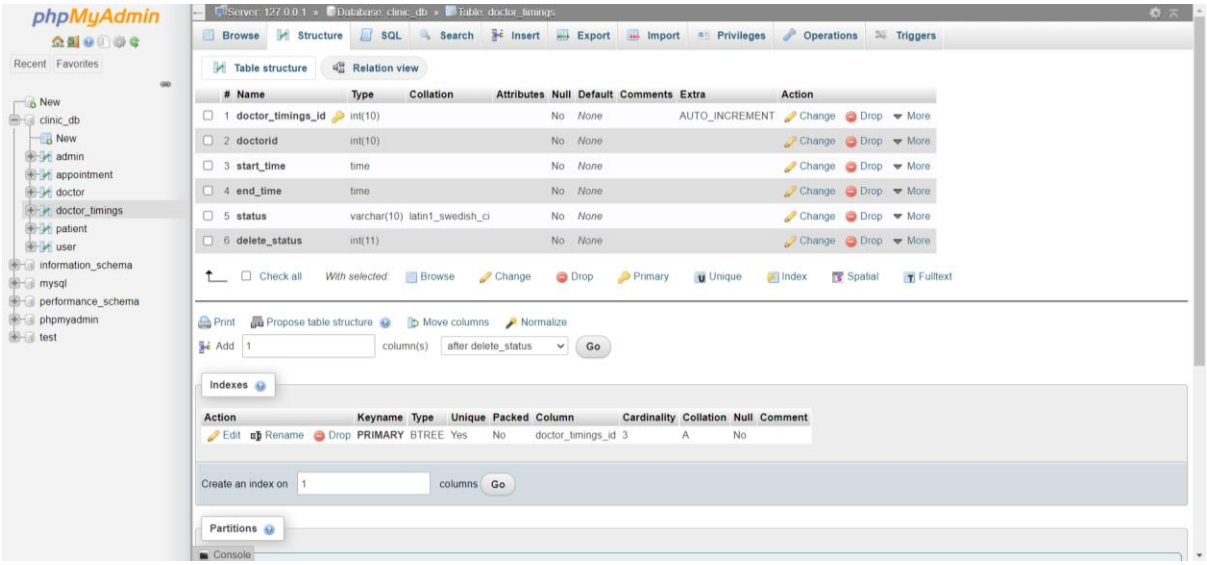


View Appointment Records

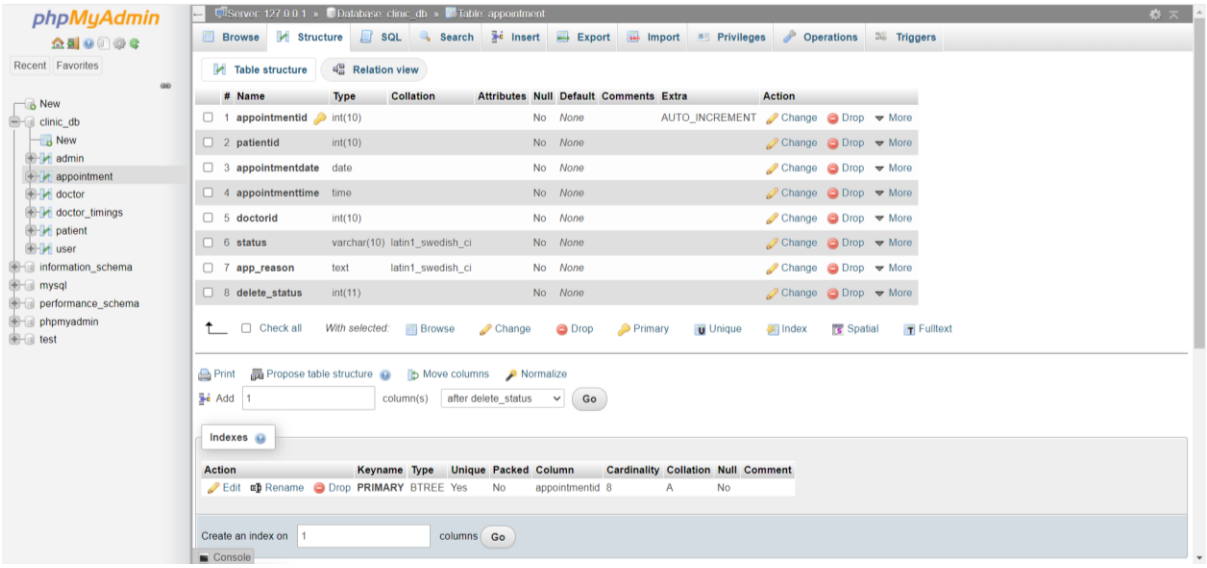
4. DATABASE:

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

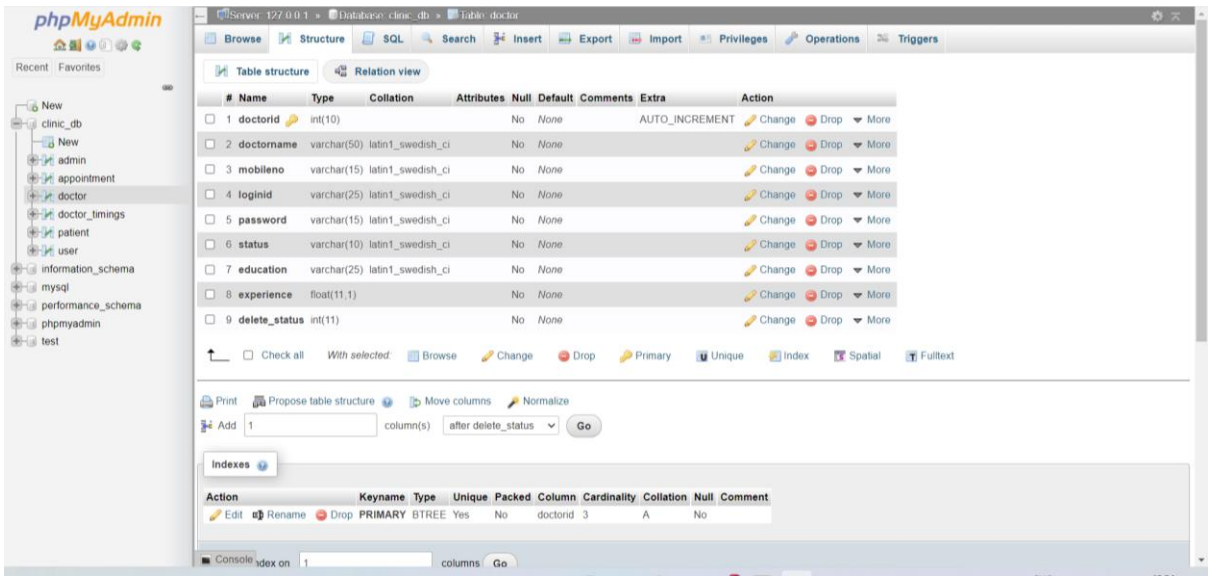
1. Admin: Id (primary key), username, loginid, password, fname, lname, gender, dob, mobileno, Addr



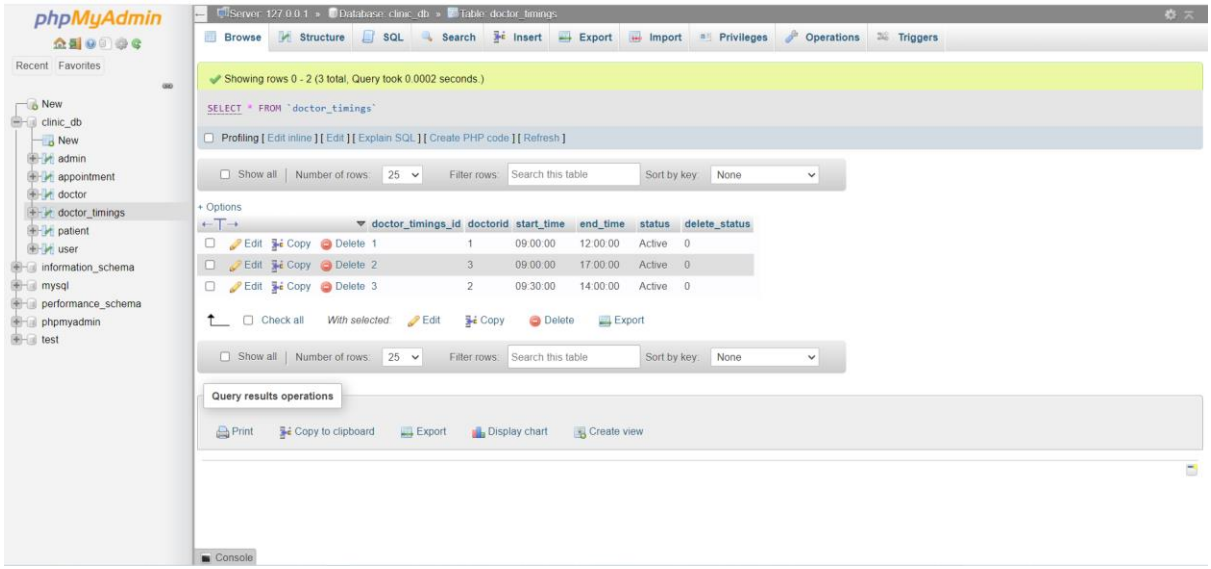
2. Appointment: Appointmentid (primary key), patientid(foreign key), appointmentdate, appointmenttime, doctorid (foreign key), status, app_reason



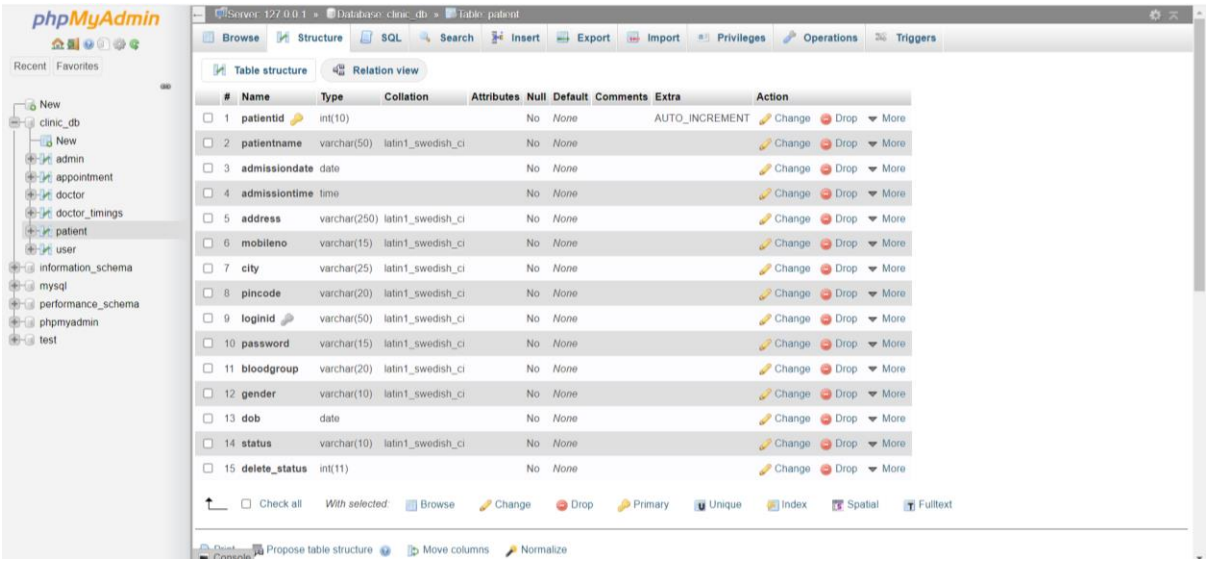
3. Doctor: Doctored (primary key), doctorname, mobileno, loginid, password, status, education, experience



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



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.