HOSPITAL MANAGEMENT SYSTEM

Health Information System Course
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1-Introduction:

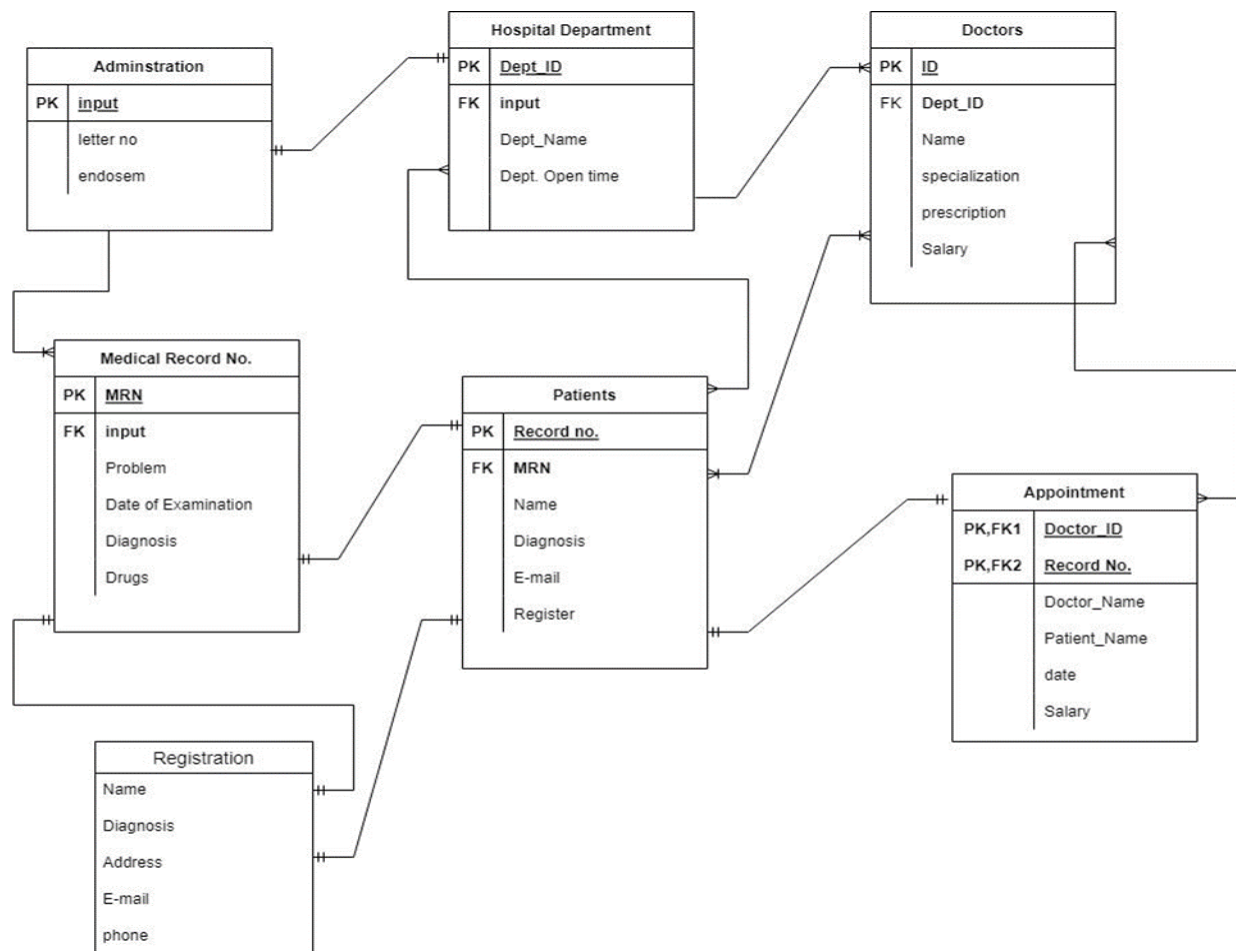In this system. we will show the most important functions in our system.

Hospital management system is a computer system that helps manage the information related to health care and aids in the job completion of health care providers effectively.

Our system is provided with many functions and features where patient registers first into system, then he sees if he will make an appointment or get in consultation with doctors.
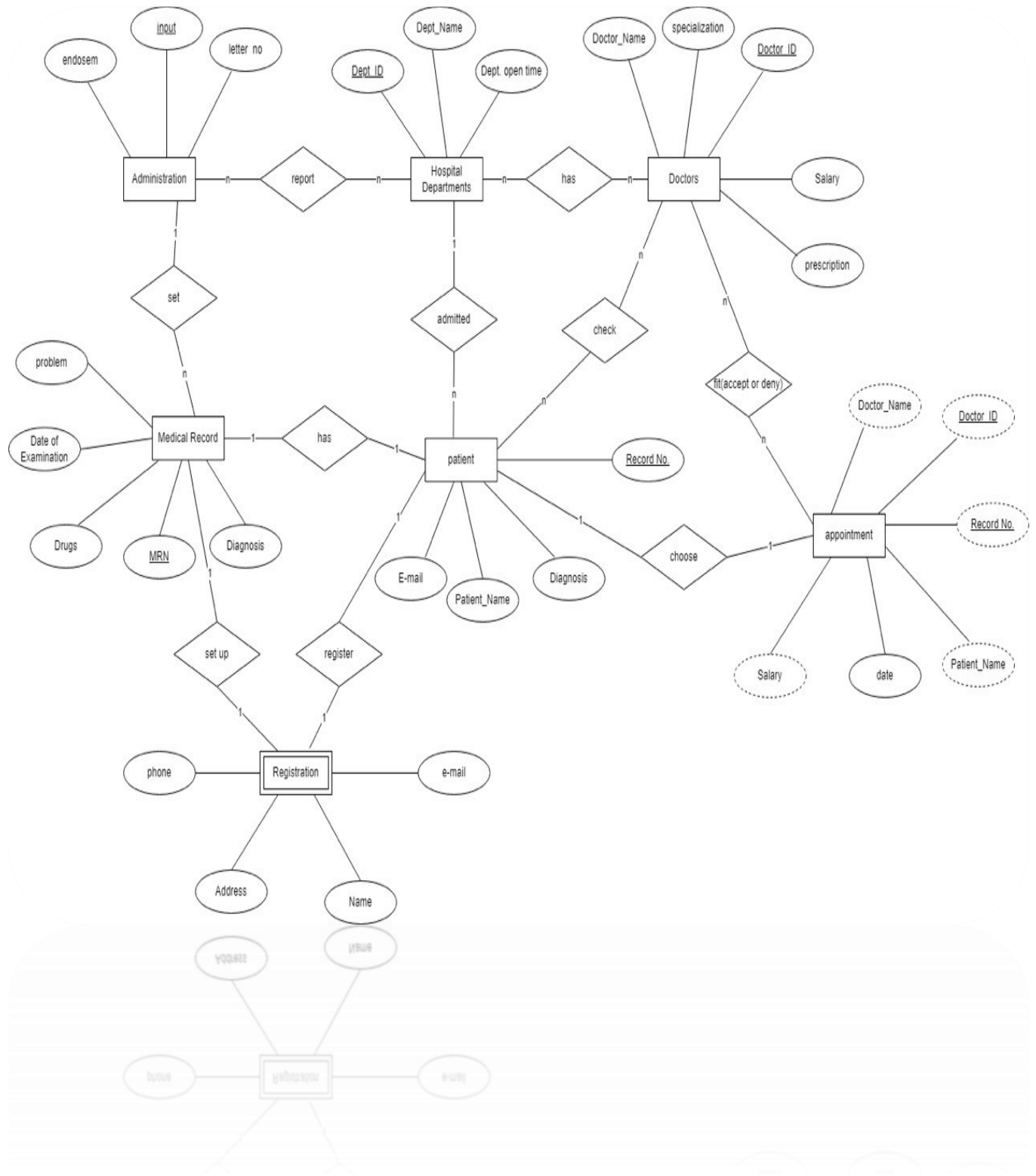
Also, patient can follow our hospital system latest news to be in knowledge with every new in our system.
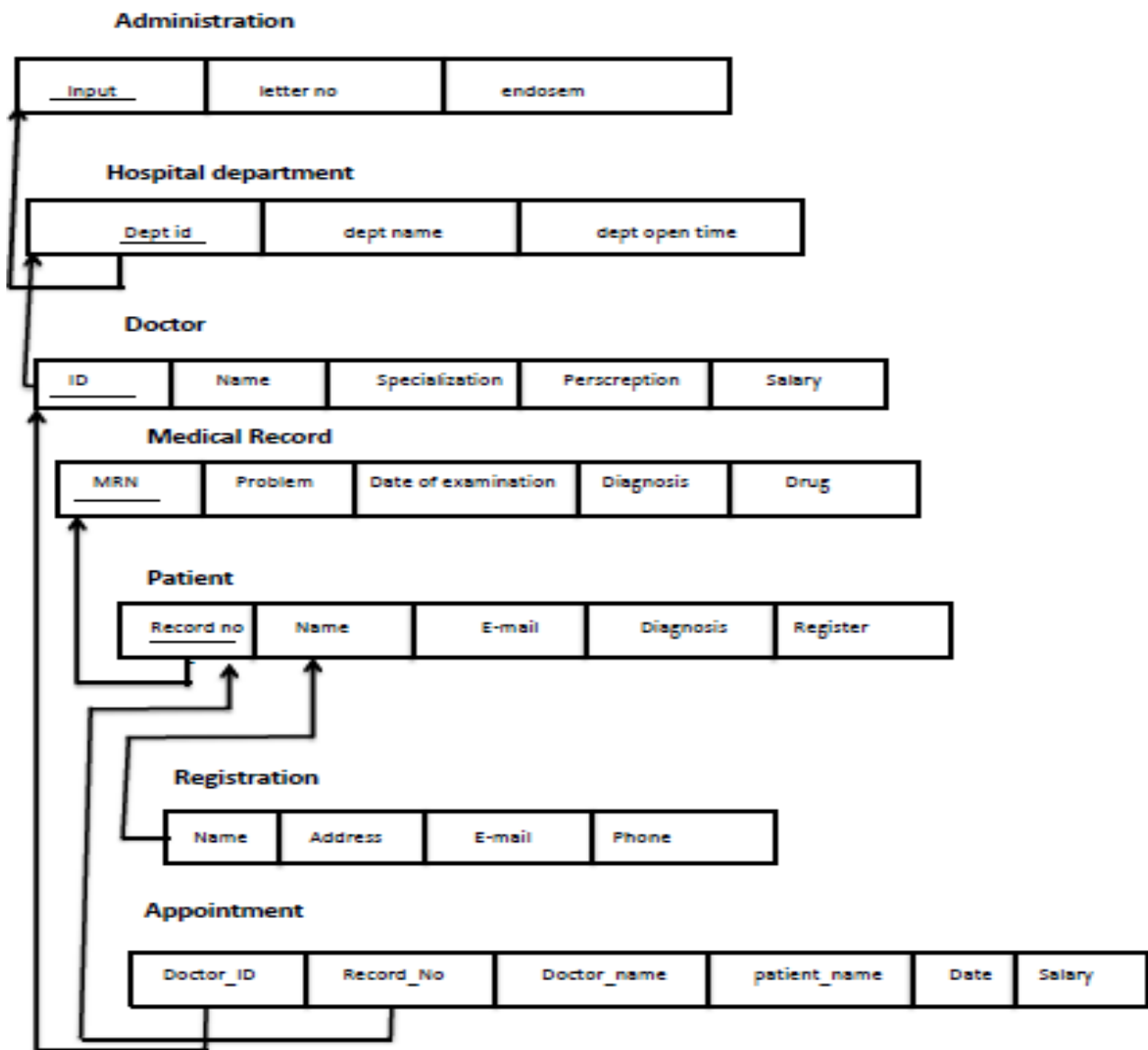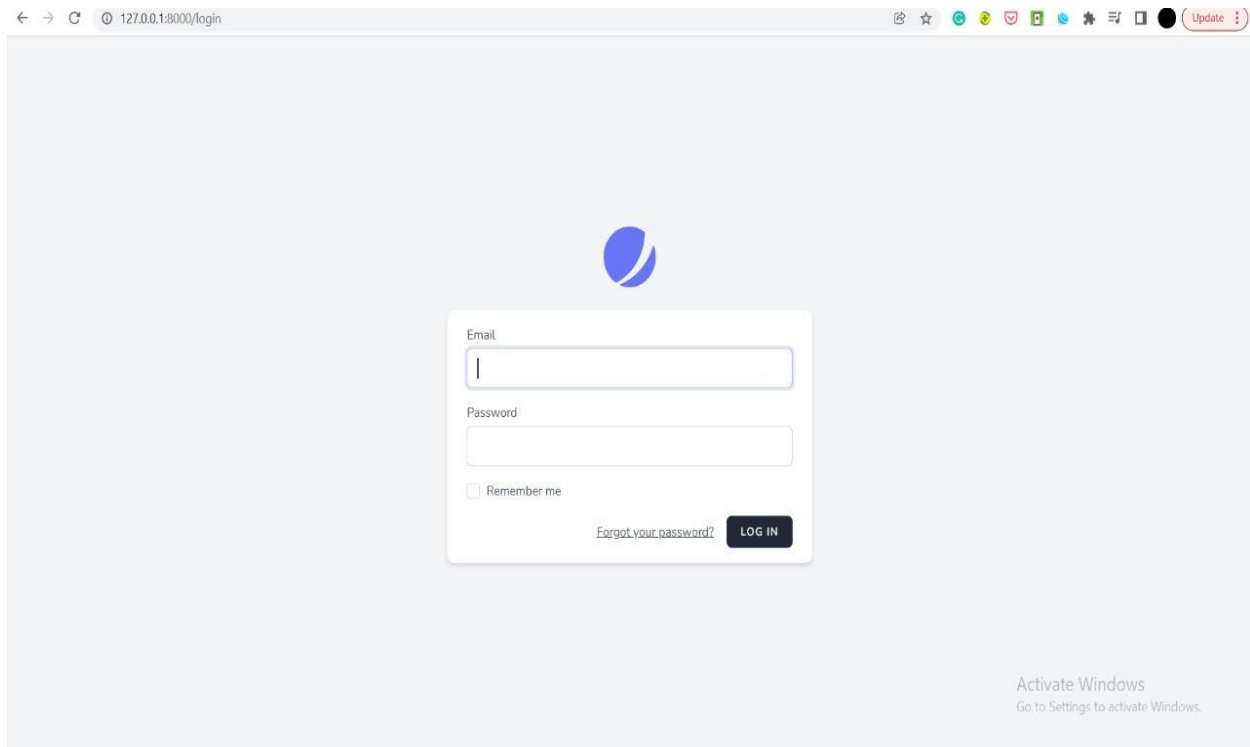
2-Diagrams:

Physical schema:

Adminstration	
PK	input
	letter no
	endosem

Hospital Department	
PK	Dept_ID
FK	input
	Dept_Name
	Dept. Open time

Doctors	
PK	ID
FK	Dept_ID
	Name
	specialization
	prescription
	Salary

Medical Record No.	
PK	MRN
FK	input
	Problem
	Date of Examination
	Diagnosis
	Drugs

Patients	
PK	Record no.
FK	MRN
	Name
	Diagnosis
	E-mail
	Register

Appointment	
PK,FK1	Doctor_ID
PK,FK2	Record No.
	Doctor_Name
	Patient_Name
	date
	Salary

Registration
Name
Diagnosis
Address
E-mail
phone

2-Entity Relation Diagrams (ERD):

3-Schema (Mapping):

Administration

Input	letter no	endosem

Hospital department

Dept id	dept name	dept open time

Doctor

ID	Name	Specialization	Perscreption	Salary

Medical Record

MRN	Problem	Date of examination	Diagnosis	Drug

Patient

Record no	Name	E-mail	Diagnosis	Register

Registration

Name	Address	E-mail	Phone

Appointment

Doctor_ID	Record_No	Doctor_name	patient_name	Date	Salary

3-Forms

1-Log in form:

- <u>In login form:</u> there are two fields which they are email and password.
- Where user enters his/her email and password and after that he /she clicks on login button to login as user to go to next operation.
- In this form also admin logins to manage the operations in our system from: How many patients make an appointment or cancel it – Deleting or updating doctors -all doctors.

2-Register form:
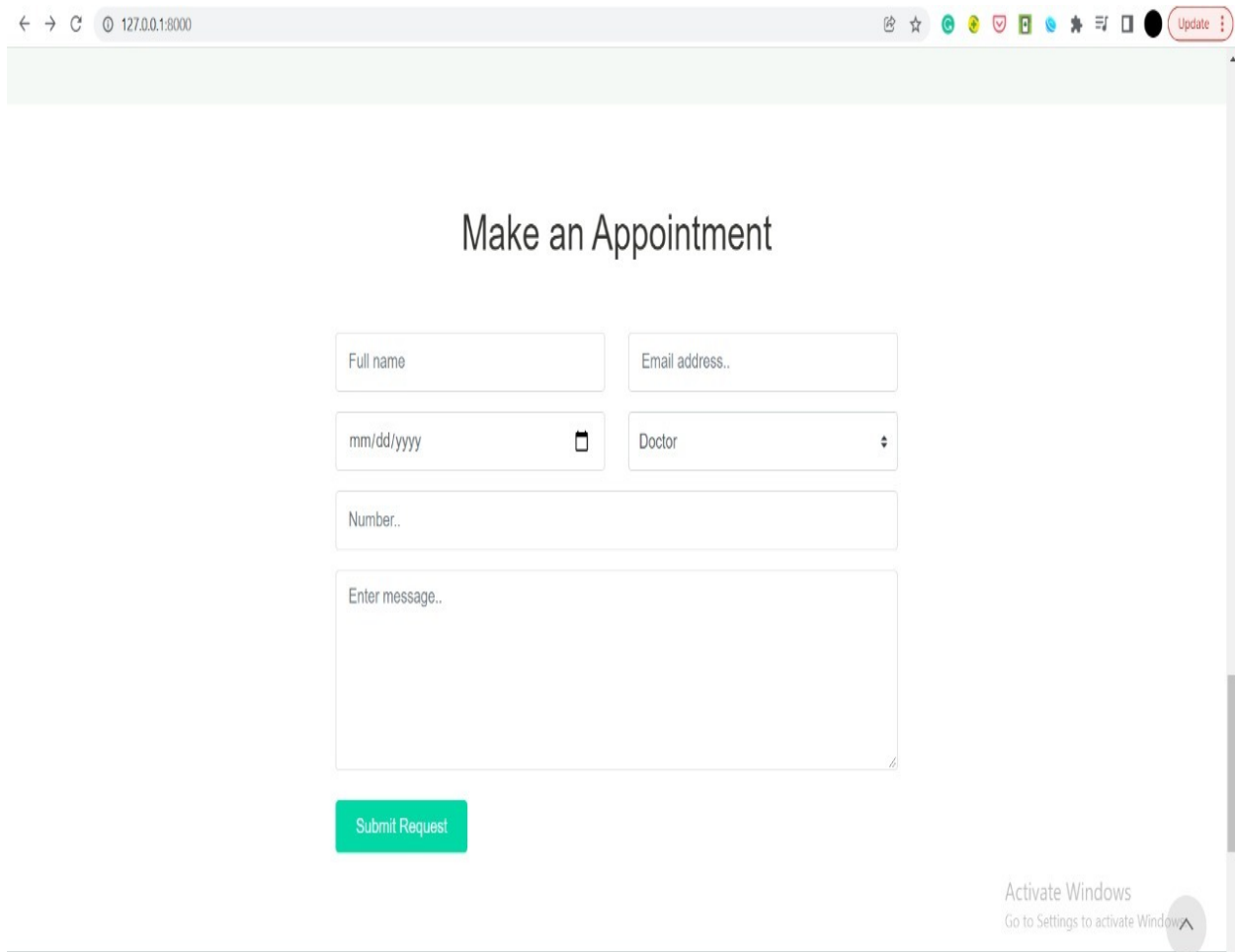
- In this form, there are four fields name, email, phone, password, confirm password.
- User registers in this form to go next to make appointment and do consultations with doctor.

3-Make an appointment form:
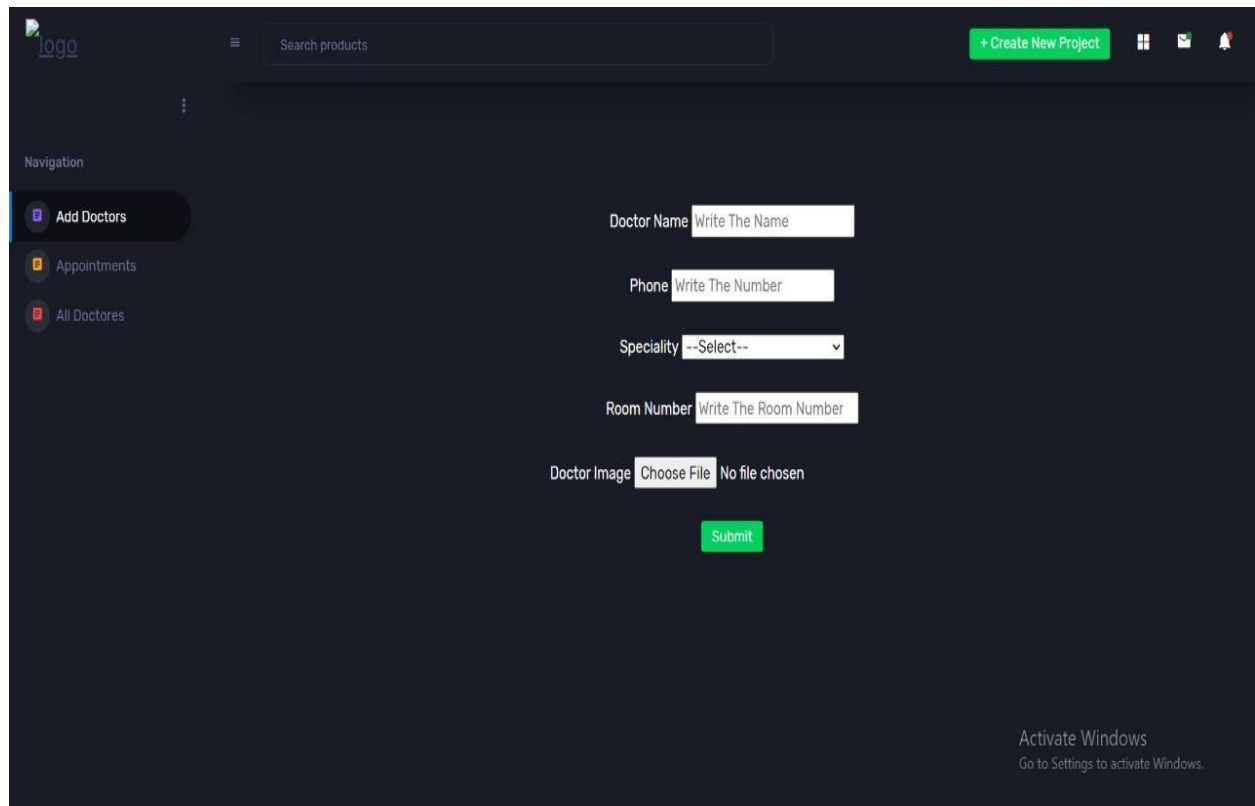
- In make an appointment form , user or patient enters his full name , email address and the date which he/she will make appointments with doctor and chooses the doctor name with his specialty and enters his/her number and then enters message if he/she had a problem with something . then submits his/her request.

4- Adding Doctors form:

5- Get in touch form:
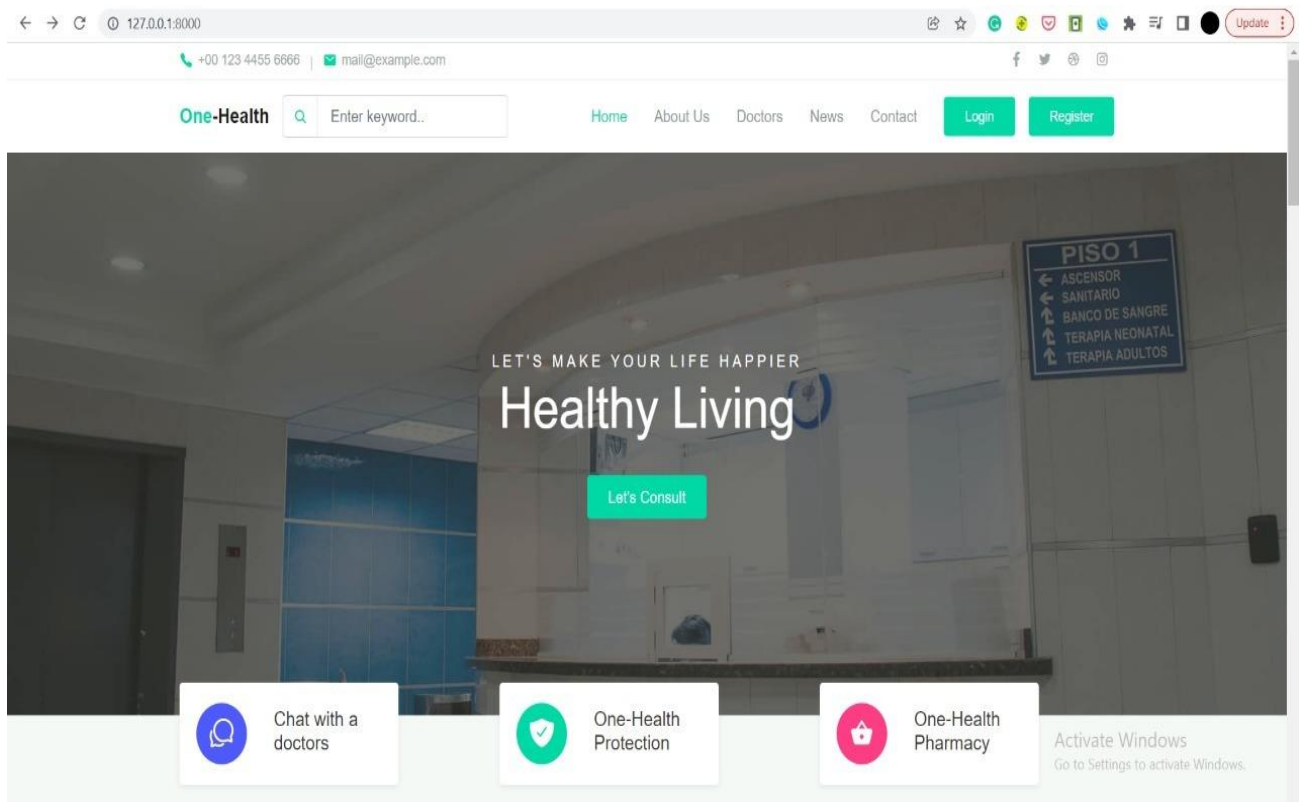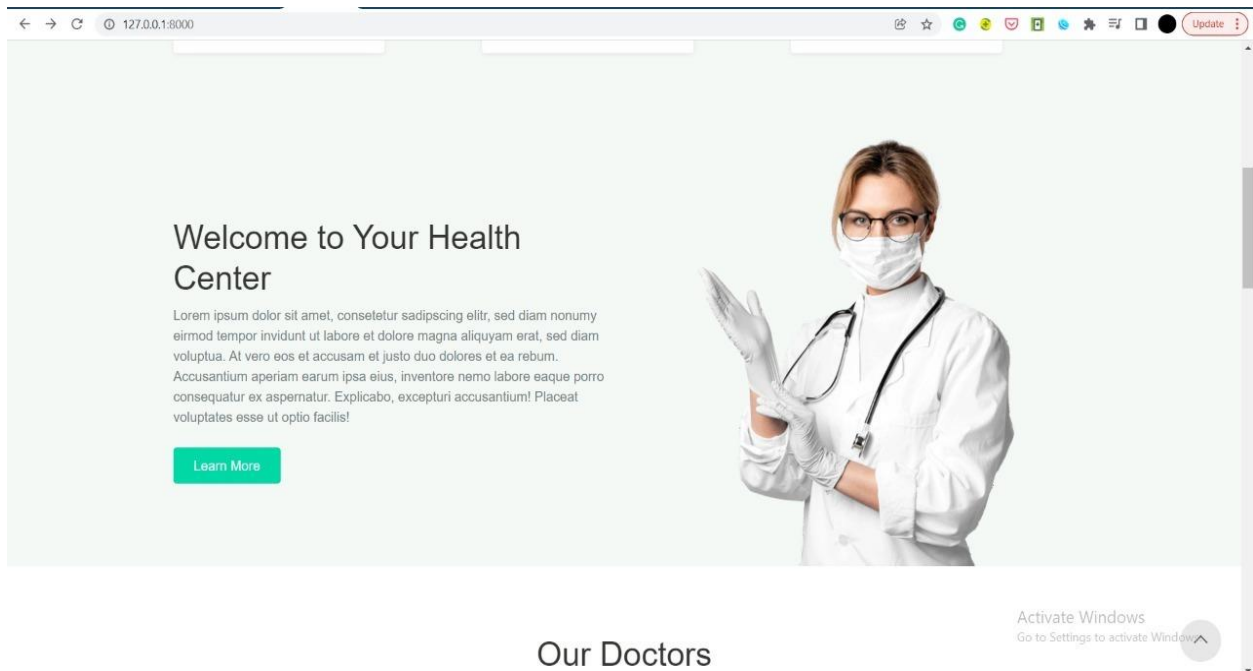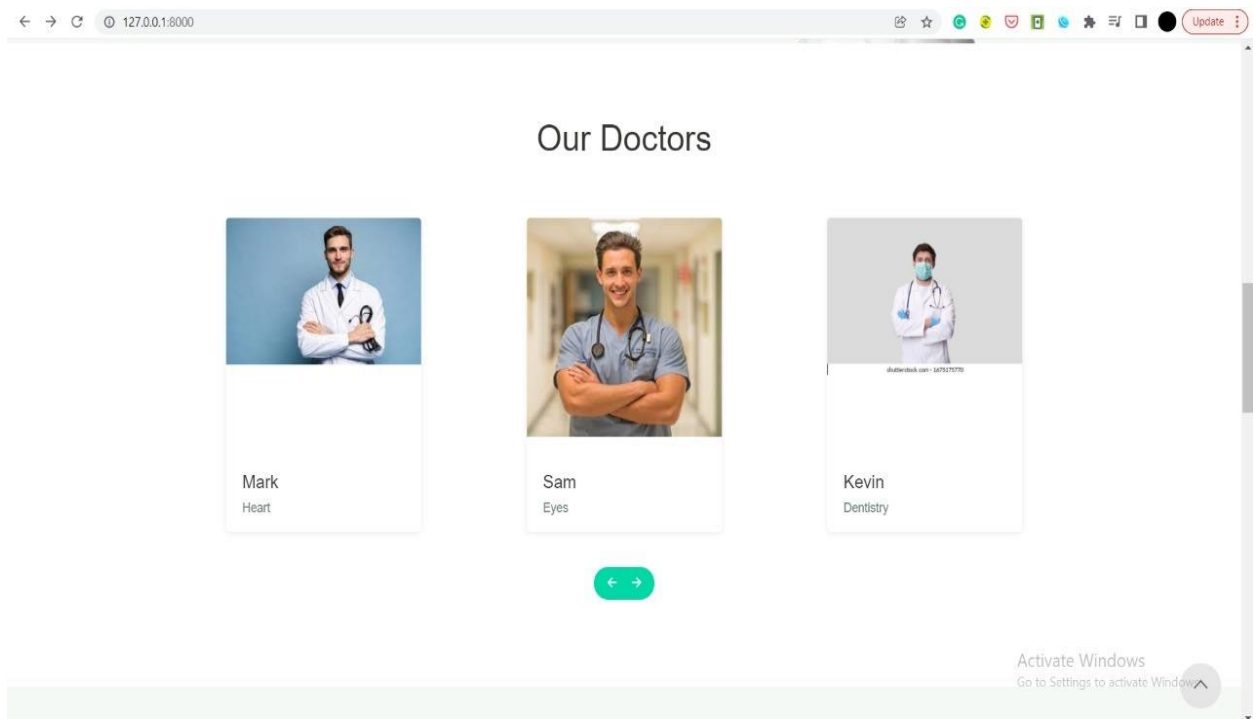
6-latest news in our hospital:
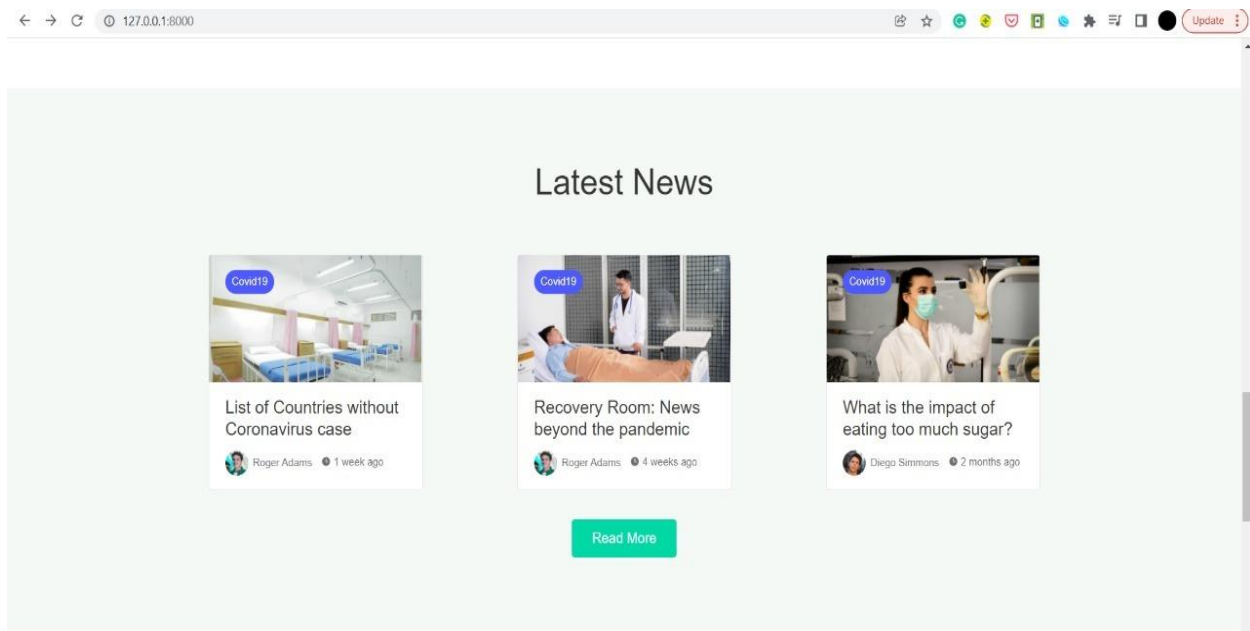
7- Our Hospital management system :
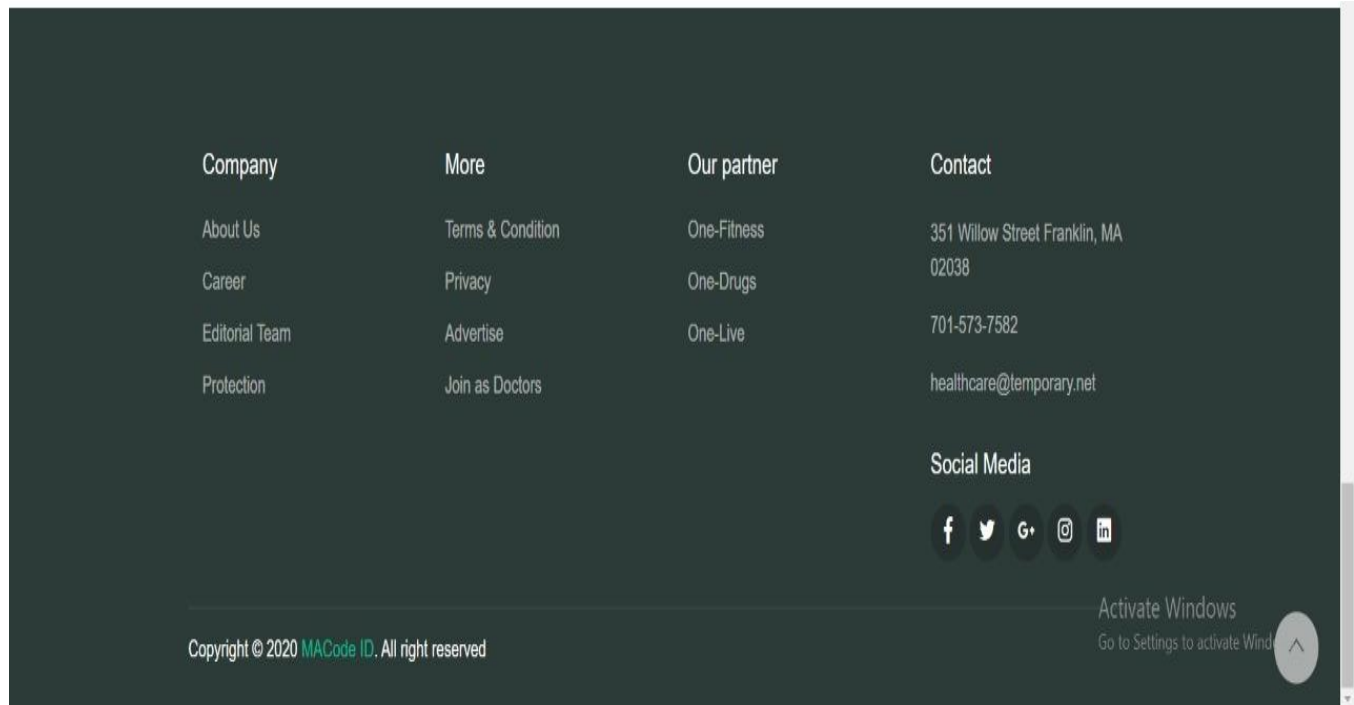
7-welcome to our health care center:

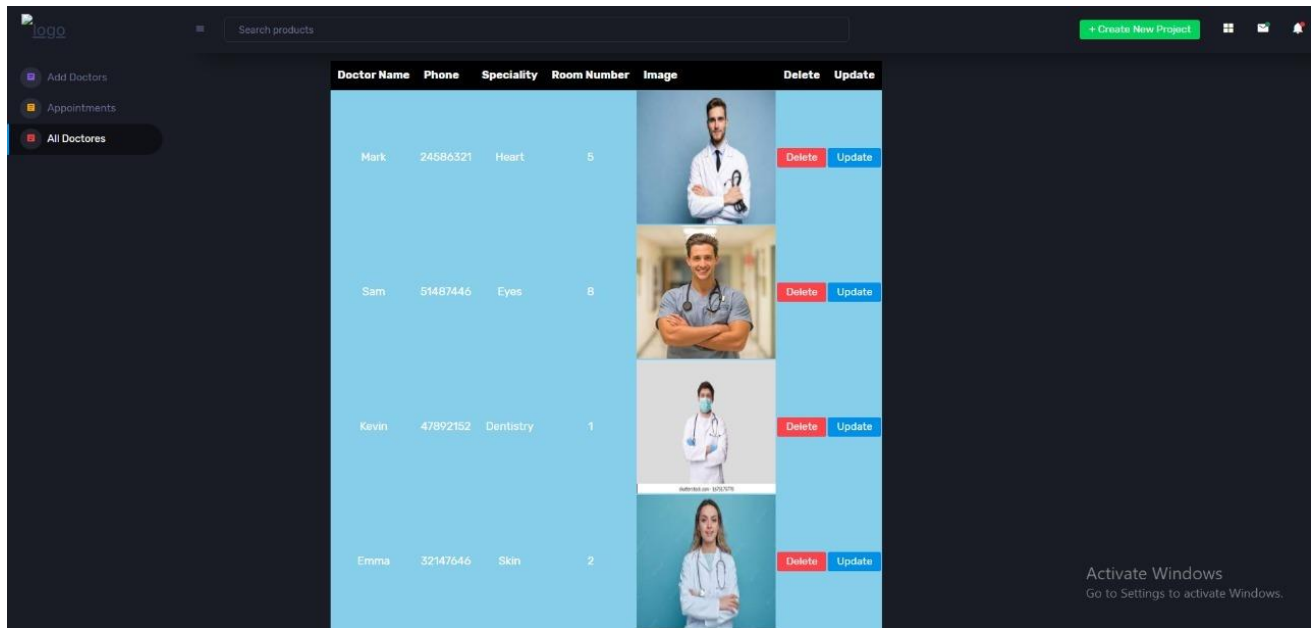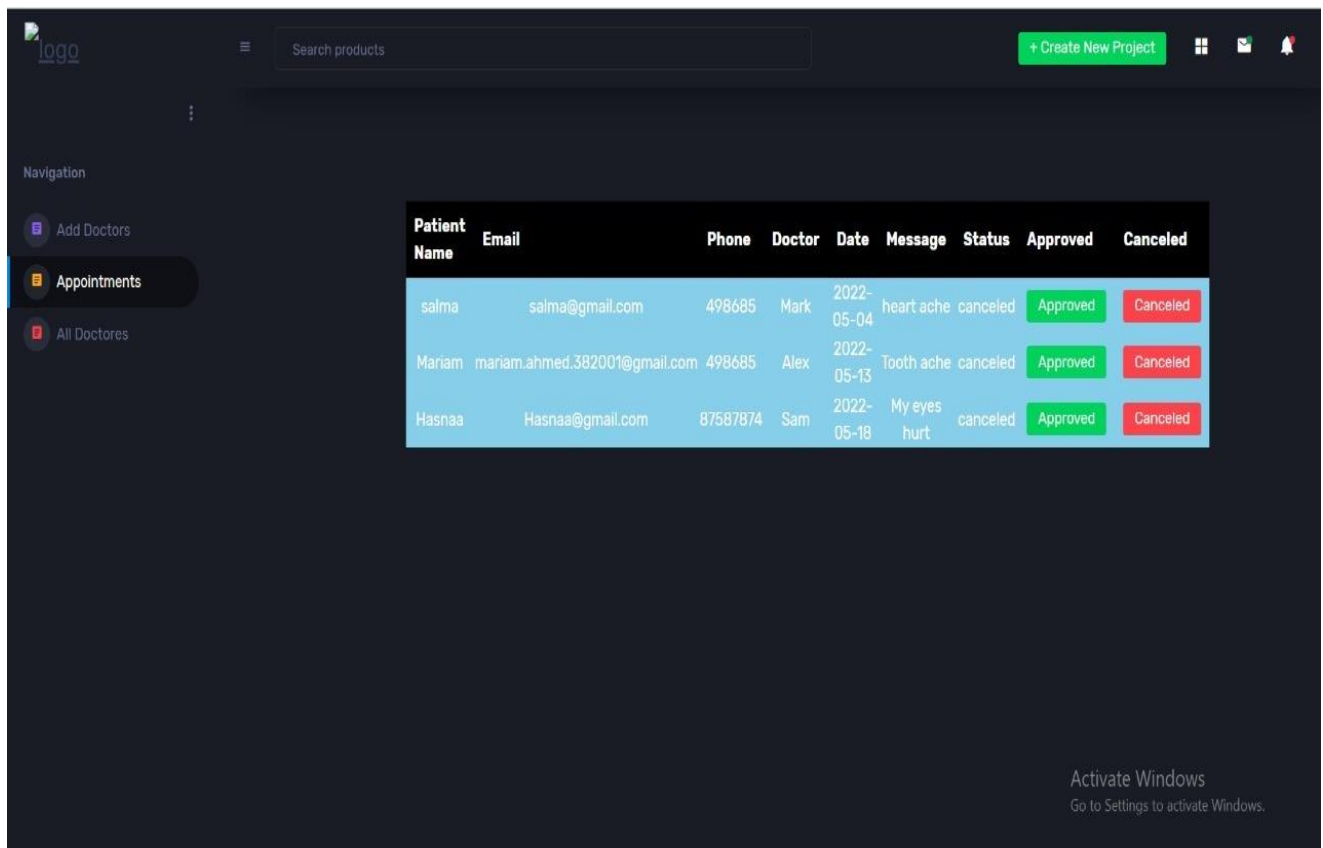# 8- Doctors name and photo and their specialty:

9- footer:

4-Reports:

Reports of our project will result from running of databases queries as shown in the images:
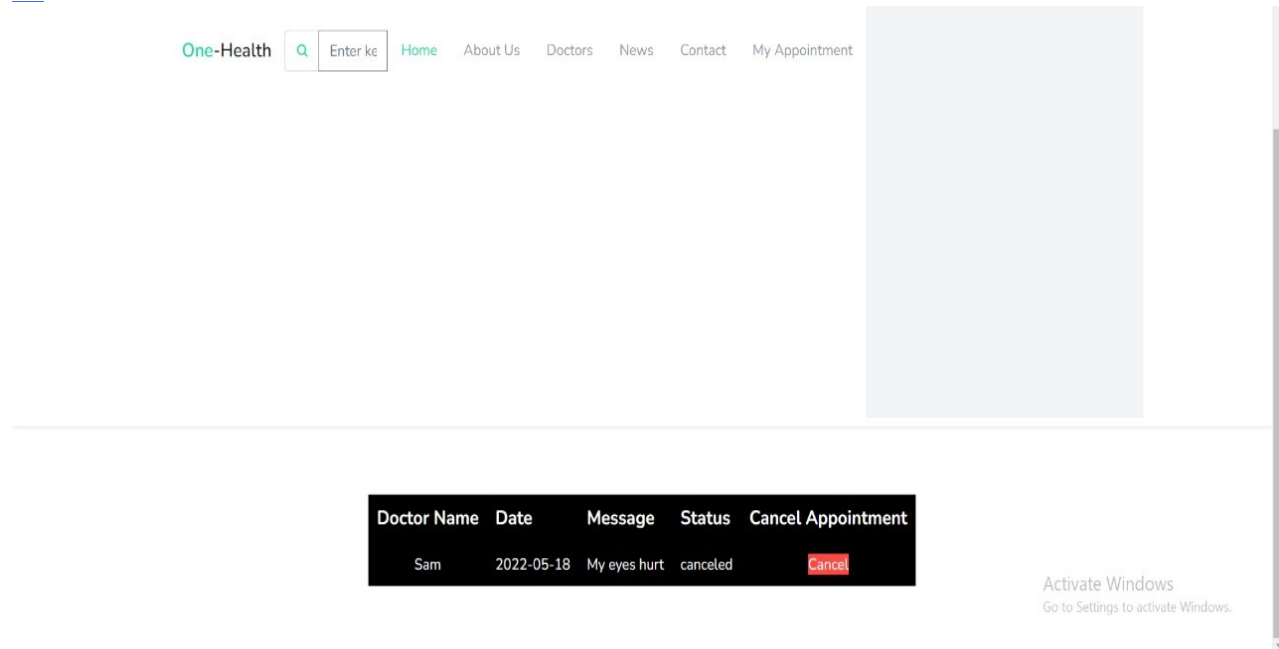
After adding doctors name in the database , that is the result that will be shown.

2-

After patient registered into form then the database shown will be in that result.

3-

The result of get in touch form with doctors , the result of this query as shown.

4- System vision:

➢ To provide an integrated Solution for the Hospital, which Helps in

Efficient Management of the Hospital? Enhance Patient Care

Improve work efficiency Improve Fiscal Control Eliminate the

chances of any Pilferage Enable the Growth of the Hospital.

➢ As to help patients to know dealing with computerized system.

5- System Capabilities

Stakeholders

Admin: those individual/s which manage the system

patients: those individuals who use this system to make an appointments, get in touch with doctors

doctors: those who help patients.

Activities of Stakeholders

Patients: register into system, make an appointment, get in consult with doctors, follow patient latest news

Admin: manage system operations, Add doctors, view appointments, generate reports, manage database

Doctors: help patients

Physical locations the system will be used: As hospital but computerized

Technology

Internet Service Provider

Computers/Laptops

Visual studio code

Laravel php framework

Website/Browser Based: html, css, javascript ,bootstrap

Database design, mySQL, phpMyAdmin.

6-Non-Functional Requirements

Security: a secure portal login will ensure security for all stakeholders

Reliability: ensuring that software & hardware will perform the required tasks

Usability: the modified website interface and the internal database system designed to be user friendly and straightforward

Extensibility: the client has stated that the organisation will one day be handed over therefore the system will be built in a way that future growth can occur