

**Project:** Hospital Management System

**Faculty:** Miss Fareeha Jabeen

**By:** Syed Shiraz Haider & Ahmed Irfan



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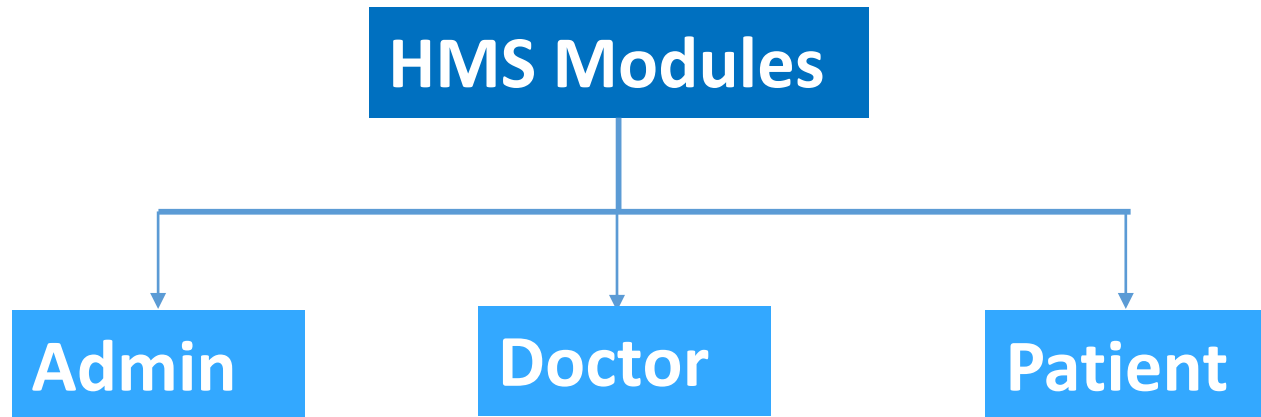
# Introduction to HMS

A Hospital Management System (HMS) is a computer-based system designed to manage and streamline various administrative, operational, and clinical tasks within a healthcare institution, such as hospitals, clinics, and medical centers. The system integrates various modules and functionalities to automate processes, enhance efficiency, improve patient care, and assist in decision-making for healthcare providers and administrators.



# HMS Project Overview

Our Hospital Management System (HMS) is comprised of three core modules: the Admin Module, Doctor Module, and Patient Module. These modules are designed to streamline and enhance the functioning of our healthcare institution. Here's an overview of each module's functionalities:



Our Hospital Management System strives to create an integrated platform that enhances communication, streamlines processes, and promotes efficient healthcare management for all stakeholders—admin, doctors, and patients. Through these modules, we aim to provide a comprehensive solution that caters to the needs of a modern healthcare institution.

## Admin

- The Admin Module is the central hub of the HMS, where administrative tasks are managed efficiently.
- The admin has the privilege to view and manage all administrative accounts within the system. This includes adding and removing admin accounts.
- Admins can update their own profiles to ensure accurate and up-to-date information.
- A comprehensive view of all doctors within the institution is available to the admin. They can also oversee the recruitment process, viewing job requests from potential doctors.
- Job requests from doctors can be reviewed by the admin, who has the authority to approve or reject them.
- Admins can adjust and update doctors' salaries based on administrative decisions and requirements.
- Patient records are accessible to the admin, providing insights into the total number of patients and their details.
- The admin can monitor and address reports and complaints submitted by patients, ensuring the highest quality of care.
- The financial aspect of the hospital is managed through the admin module, with the ability to view and analyze total invoices.

## Doctor

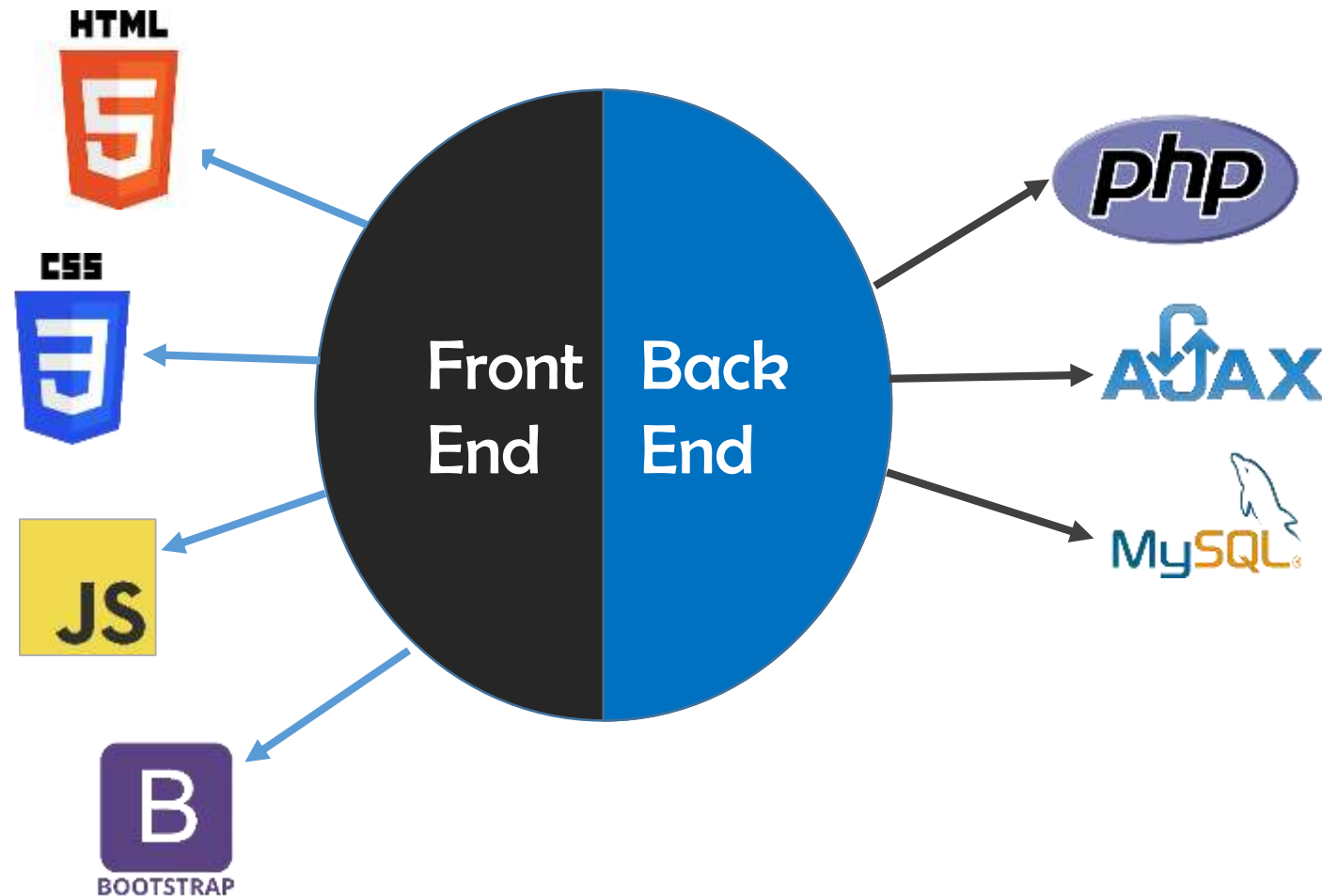
- The Doctor Module empowers medical professionals with tools to manage patient care effectively.
- Doctors can update their profiles, keeping their information current for accurate communication.
- Appointment management is streamlined, enabling doctors to view upcoming appointments and schedule their time efficiently.
- Invoicing functionalities are available to doctors, allowing them to create invoices for services rendered.
- Patient checkups and consultations are facilitated through the system, with options to prescribe medications and treatments.
- Doctors can access patient records and details, ensuring a holistic view of patient health.

## Patient

- The Patient Module is designed to enhance the patient experience and engagement with the hospital.
- Patients can book appointments by providing symptoms and preferred dates, making the scheduling process seamless.
- A reporting system allows patients to communicate concerns or submit reports to the admin for prompt attention.
- Patients can engage with their healthcare journey by accessing their medical records and treatment history.

# Technologies Used

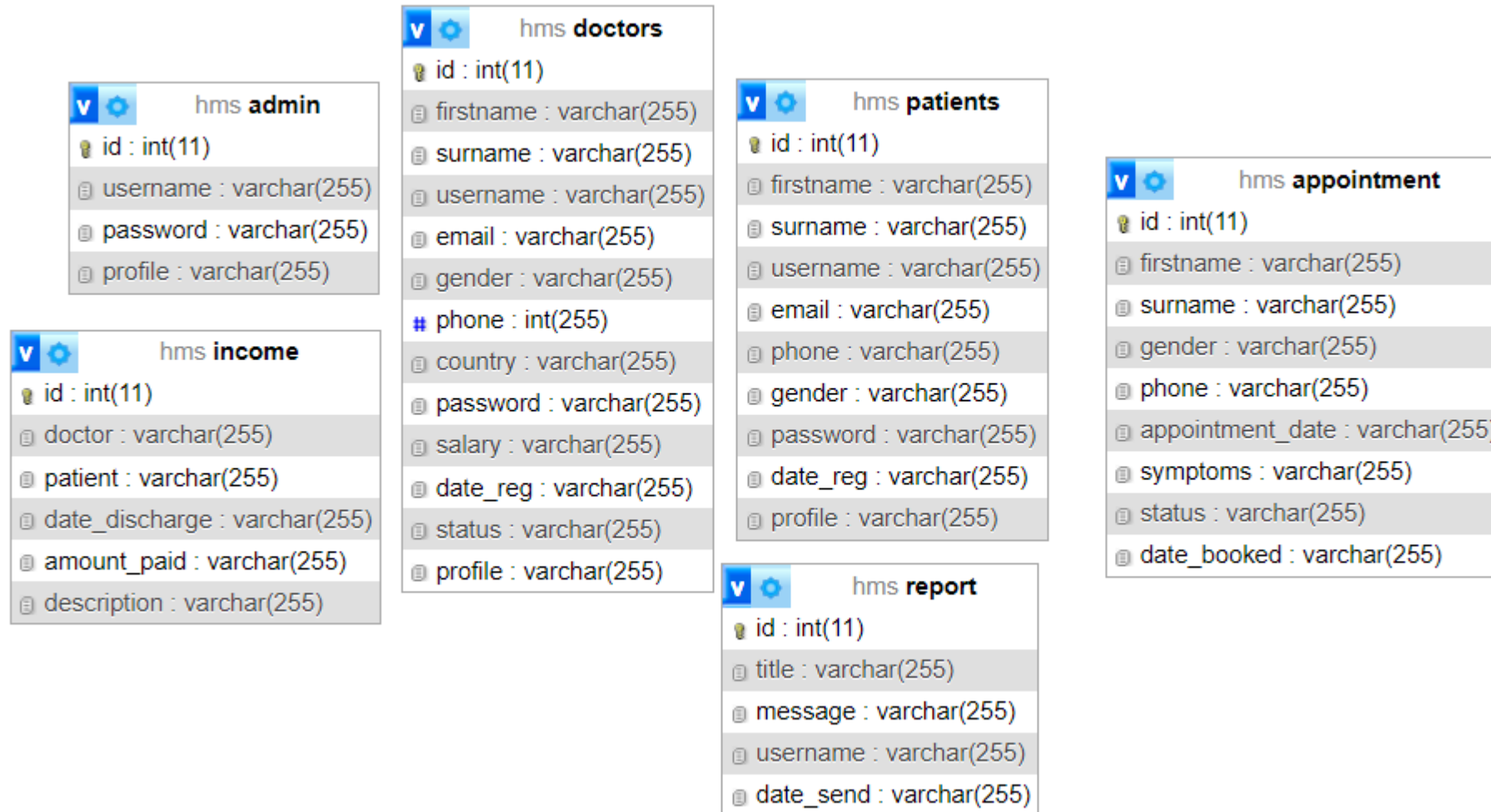
As Our Project full stack functionality app so we have used frontend+backend technologies.





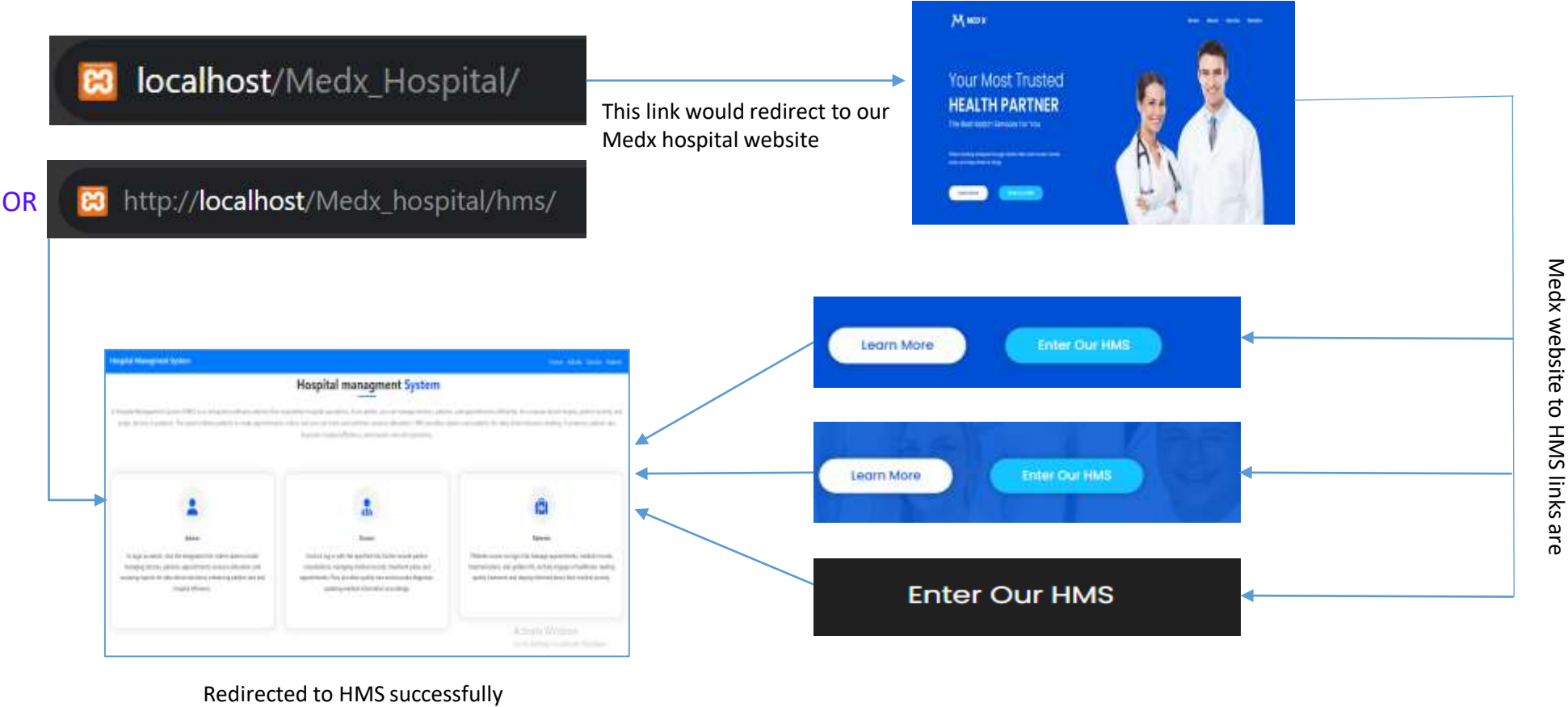
# Database Design

This is our HMS Website Database.



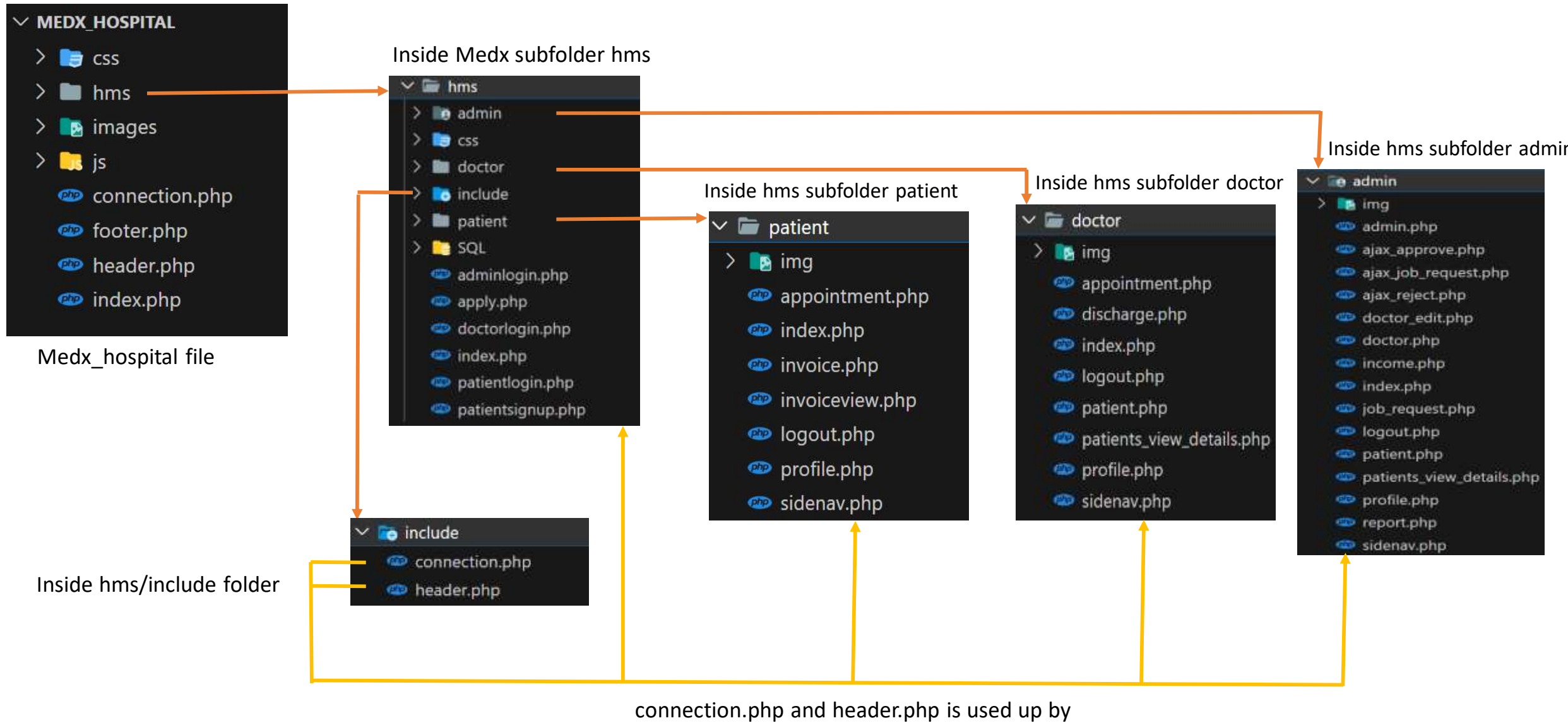
# Flow Chart

## Our Hospital website to HMS redirection



Note: The Medx\_hospital ui webpage is not main part of the project it was used for the beautification but still its somehow dynamic.

# Our Hospital Management System File Structure



# Admin, doctor And Patient Functionality

## Admin's Perspective

### Admin Login

Username

Enter username

Password

Enter password

Submit



After admin login Redirected to Admin Dashboard

Admin can do perform these

change password

new password

confirm password

Save password

Update his profile

All Admins		Add Admin	
ID	Username	Action	Username
1	Admin	<div><div></div><div></div></div>	Username
2	Admin	<div><div></div><div></div></div>	Username
Add Admin		Add Admin	
		Add Admin	

Add or delete admin

Total Doctors									
ID	Firstname	Surname	Username	Email	Phone	Gender	Country	Date registered	Action
1	John	Doe	john.doe	john.doe@gmail.com	123456789	male	USA	2023-08-30 09:43:12	<div><div></div><div></div></div>
2	John	Doe	john.doe	john.doe@gmail.com	123456789	male	USA	2023-08-30 09:43:12	<div><div></div><div></div></div>
3	John	Doe	john.doe	john.doe@gmail.com	123456789	male	USA	2023-08-30 09:43:12	<div><div></div><div></div></div>

See all doctors

Dr. John Doe

Dr. John Doe

Dr. John Doe

Dr. John Doe

Dr. John Doe

Dr. John Doe

See individual Dr info and update his salary

Total Patients							
ID	Firstname	Surname	Username	Email	Phone	Gender	Date Reg
1	John	Doe	john.doe	john.doe@gmail.com	123456789	male	<div><div></div><div></div></div>

See all patients

Job Requests									
ID	Firstname	Surname	Username	Email	Gender	Phone	Country	Date registered	Action
7	Andre	Tate	Andretate	andretate@gmail.com	male	300000000	pakistan	2023-08-30 09:43:12	<div><div></div><div></div></div>

Approve or Reject Dr's job request



See total income

# Doctor's Perspective

Doctors Apply Form

Form fields for doctor registration, including Name, Email, Password, and Address.

Doctors Apply Form

Doctors Login

Please wait for admin to continue.

Username: [Enter Username]

Password: [Enter Password]

Login

I don't have any account. [Apply Now!](#)

Cant login until admin approves job request

Doctors Login

Username: [Enter Username]

Password: [Enter Password]

Login

I don't have any account. [Apply Now!](#)

Can login when admin approves job request

Redirected to doctor's dashboard

Doctor's Dashboard

Overview of doctor's profile and statistics.

Update his/her profile

Form for updating doctor's profile information.

Update his/her profile

Total Patients

Id	Firstname	Surname	Username	Email	Phone	Gender	Date_Reg
1	Ahmed	Irfan	Irfan	irfan@gmail.com	123123	male	<a href="#">View</a>

See total patients

Total Appointment

Id	Firstname	Surname	Gender	Phone	Appointment Date	Symptoms	Date Booked	Action
1	Ahmed	Irfan	male	123123	2023-08-30	headache	2023-08-30 10:26:20	<a href="#">Check</a>

See total appointments

Total Appointments

Appointment Details

First Name: Ahmed

Surname: Irfan

Gender: male

Phone no: 123123

Appointment Date: 2023-08-30

Symptoms: headache

Invoice

Fee: [Enter Patient Fee]

Description: [Enter Description]

Send

See appointment details make invoice and give prescription to patient

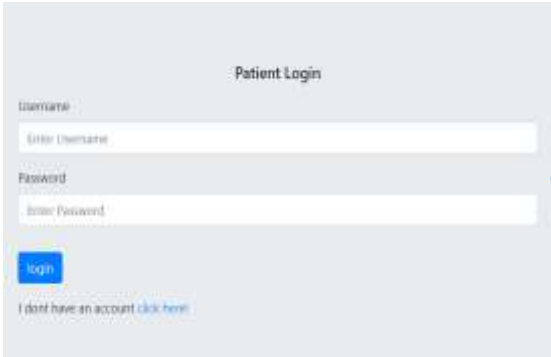
# Patient's Perspective



Registration Form

Fields include: Username, Password, Email, Phone Number, Address, Date of Birth, Gender, and a checkbox for Terms and Conditions.

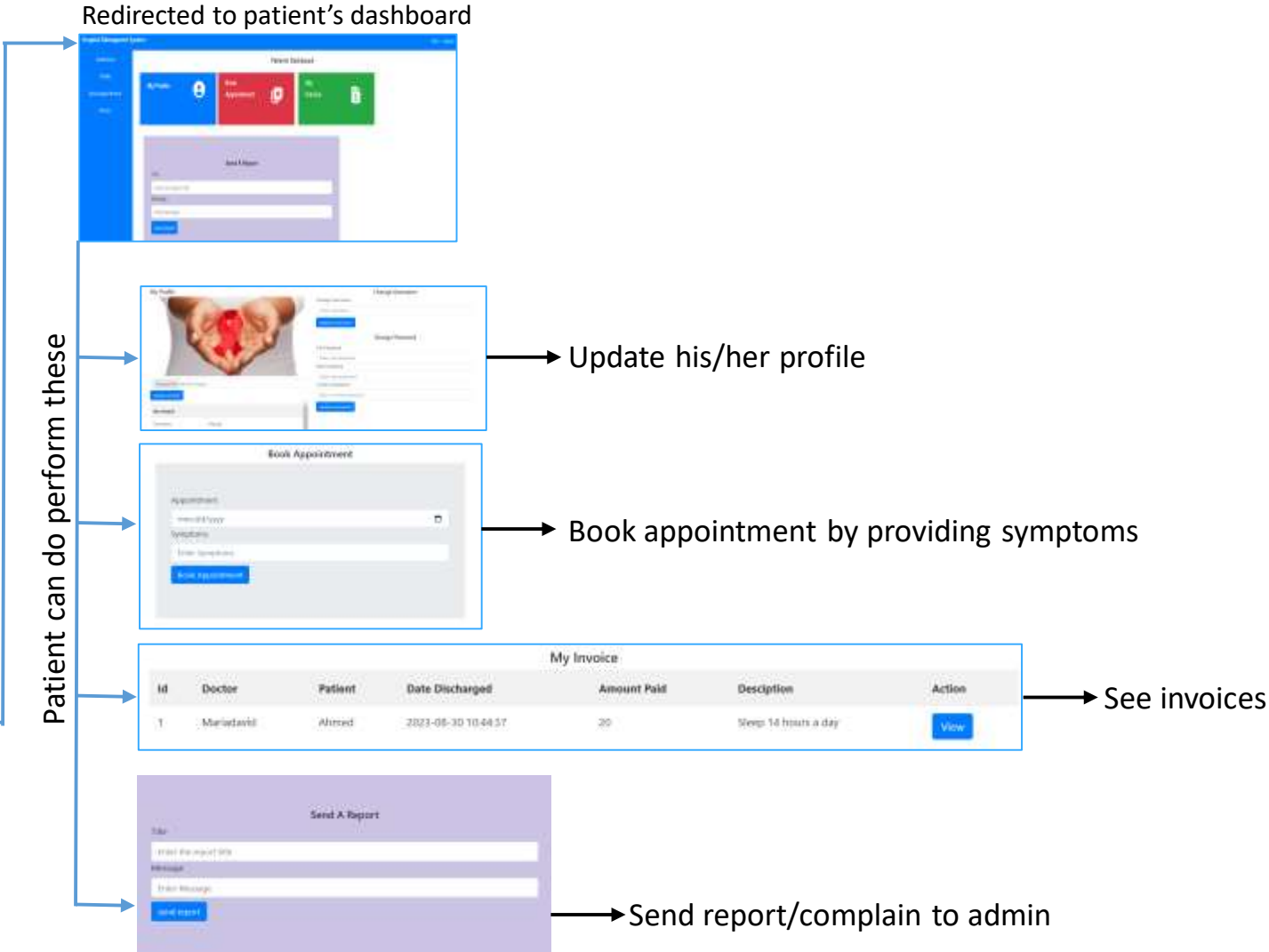
Patient's Registration Form



Patient Login

Fields include: Username, Password, and a login button. A link for "I don't have an account click here" is also present.

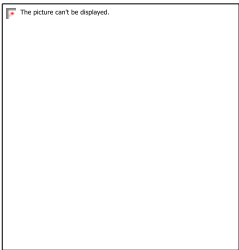
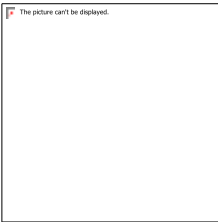
Patient's Login Form



# System Requirements

In order to run this project the requirements are provided below

OS	win7 or higher
Processor	Core 2 duo or higher
Ram	1gb or more
Disk space	15mb free
Sotware	Xaamp & any browser



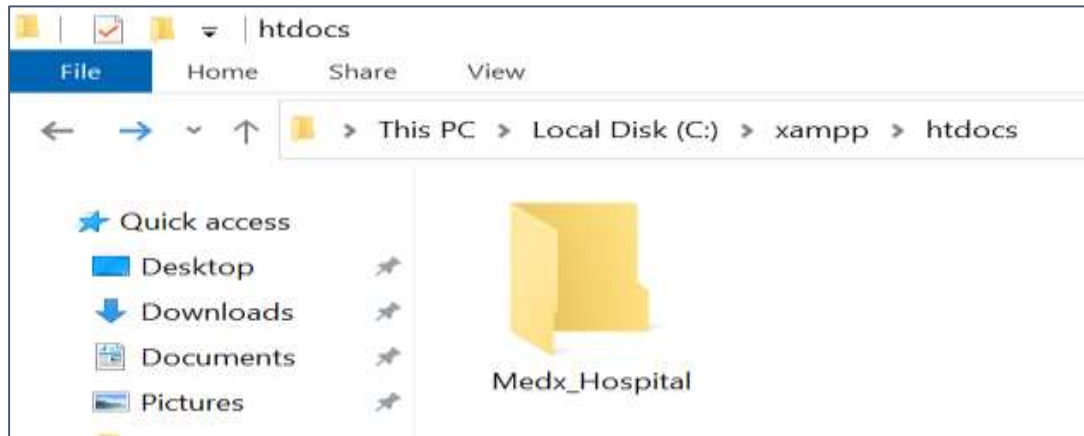


# Installation Guide

Step1)Download and install Xaamp in C drive partition

<https://www.youtube.com/watch?v=DaJd6cM09po>

Step2)Select MEDX\_HOSPITAL website cut it an paste in C:\xampp\htdocs

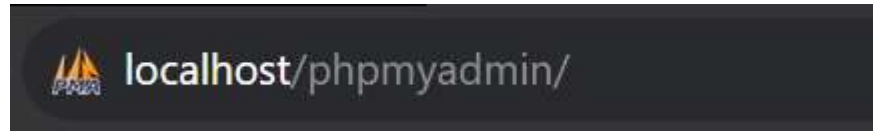


Step3)Open Xaamp and start Apache and MySQL server





Step4)Then open any web browser on pc laptop and search  
[localhost/phpmyadmin](http://localhost/phpmyadmin)

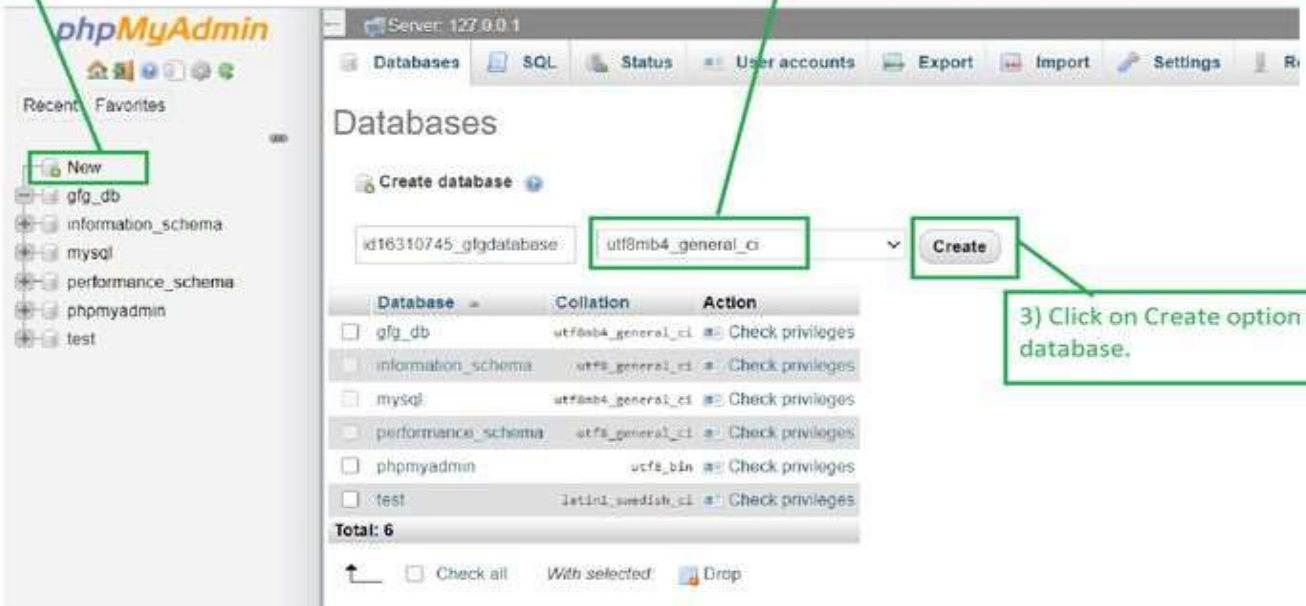


Step5)Then create a new database named hms

1) Click on New option to create your new database.

2) Name your database according to your requirement.


3) Click on Create option to create your new database.



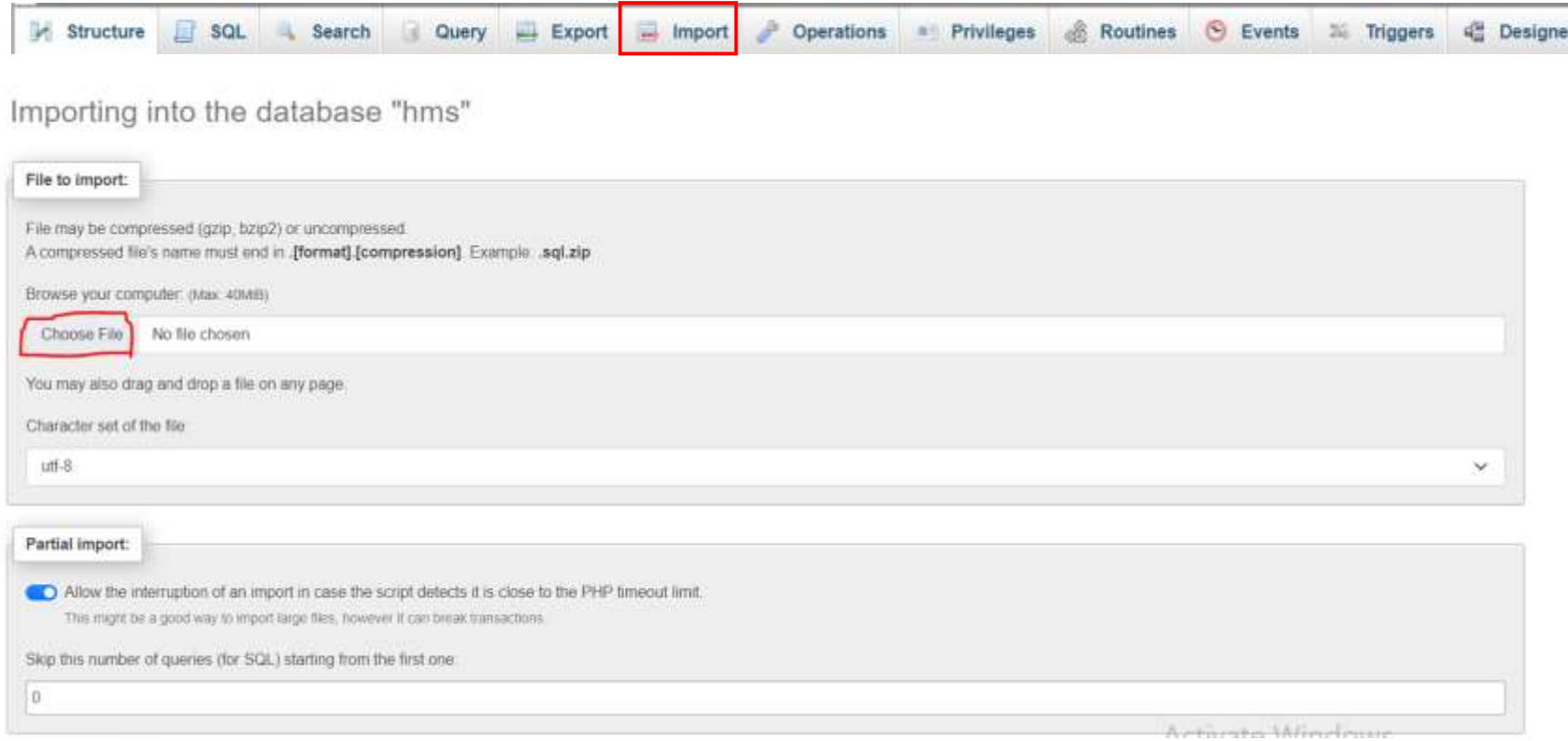
Database	Collation	Action
<input type="checkbox"/> glg_db	utf8mb4_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> information_schema	utf8_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> mysql	utf8mb4_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> performance_schema	utf8_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> phpmyadmin	utf8_bin	<a href="#">Check privileges</a>
<input type="checkbox"/> test	latin1_swedish_ci	<a href="#">Check privileges</a>

Total: 6

☐ Check all    With selected: [Drop](#)

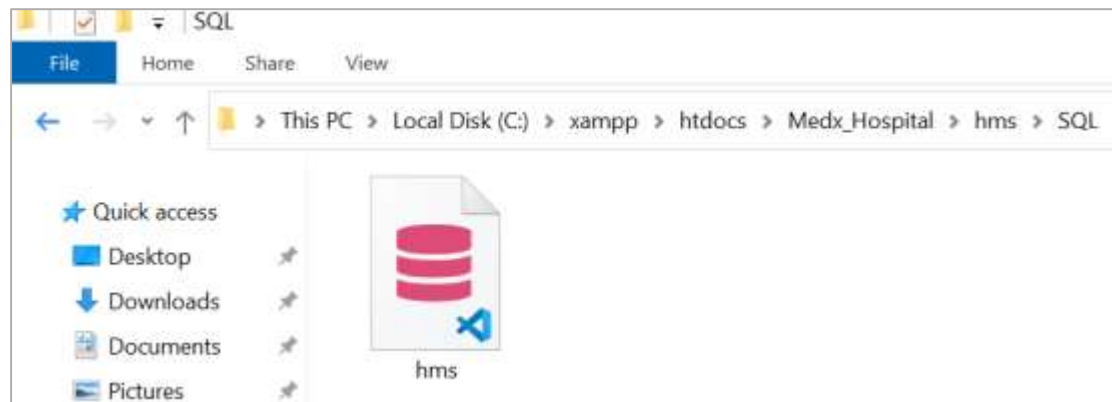


Step6)Now select hms from sidebar and then click on import option and top



The screenshot shows the MySQL Import Wizard interface. At the top, the 'Import' tab is selected and highlighted with a red box. Below the tabs, the title 'Importing into the database "hms"' is displayed. The 'File to import:' section contains instructions about file formats and a 'Choose File' button, which is also highlighted with a red box. Below this, there is a text input field for the character set, currently set to 'utf-8'. The 'Partial import:' section includes a checkbox for 'Allow the interruption of an import...' and a text input field for 'Skip this number of queries...', both with their respective labels.

Step7)Then select sql file from MEDX\_HOSPITAL/hms/SQL/hms.sql → Then click on import



The screenshot shows the 'Format-specific options' section of the MySQL Import Wizard. It includes a dropdown for 'SQL compatibility mode' set to 'NONE' and a checkbox for 'Do not use AUTO\_INCREMENT for zero values' which is checked. The 'Import' button at the bottom is highlighted with a red box.

Step8)Open another tab in browser and type this link and you're ready to go  
[localhost/MEDX\\_HOSPITAL](localhost/MEDX_HOSPITAL) OR [localhost/MEDX\\_HOSPITAL/hms](localhost/MEDX_HOSPITAL/hms)