PROJECT REPORT ON

EMPLOYEE MANAGEMENT SYSTEM

SUBMITTED BY

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UNDER THE SUPERVISION AND GUIDANCE OF

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PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT OF THEREQUIREMENTS FOR THE FIFTH SEMESTER

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INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING), INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

1. CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by **HARSH KUMAR** , **SUMIT JHA** entitled <HOSPITAL MANAGEMENT SYSTEM> be accepted in partialfulfilment of the requirements for the degree of partial fulfilment ofthe fifth semester.

_____ _____

Head of the Department **Project**
SupervisorCSE(AIML),IEM, Kolkata

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING), INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

DECLARATION

We HARSH KUMAR, SUMIT JHA, hereby declare that this project report entitled “Online Action Platform” which is being submitted to Institute of Engineering and Management (IEM), Kolkata , in partial fulfilment of the requirements for the fifth semester is an authentic record of our genuine work done under the guidance of **Dr.Deepsubhra Guha Roy**, Associate Professor, Department of CSE (AIML), Institute of Engineering and Management (IEM), Kolkata, Salt Lake, India, during the academic year 2022-2026.

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Date:…….

Place:……

ACKNOWLEDGEMENT

We would like to sincerely thank all the people directly or indirectly involved in this project without whose help the completion of this project would have been impossible.

I would like to express my sincere gratitude to my DBMS faculty Dr.Deepsubhra Guha Roy sir who in spite of his busy schedule took keen interest in giving me all the necessary information for developing a good projectand for his unlisted encouragement and timely support till my successful completion of the project work.

We thank Deepsubhra sir who has guided us and provided support and genuine replies to our queries. He has not only guided us in the project but also helped us by providing suggestions without which we couldn't improve at work. His certain suggestions and interest in helping us complete the project has led me tothe successful result of my project and also all the other Lecturers and lab instructors who have been more of a support to us than ever.

We thank whole heartedly to our beloved Prof. Amartya Mukherjee, Head of CSE(AIML) for granting permission to undertake the project. Finally, we thank our parents, who were there by us, financially supported throughout the project and provided the support we needed throughout my life.

CHAPTER 1

1. Title of the project

EMPLOZ MANAGEMENT SYSTEM

2. Objective of the project

The objective of a **Hospital Management System (HMS**) is to improve the efficiency of healthcare processes and enhance hospital productivity. This system centralizes patient, doctor, and administrative data, enabling healthcare professionals and administrators to access critical information quickly, manage appointments and billing accurately, and streamline patient care processes. By automating routine tasks, HMS reduces the likelihood of errors, ensures compliance with healthcare regulations, and improves communication between medical staff and patients. Additionally, it provides tools for tracking patient history and managing resources, which supports effective treatment planning and quality of care.

Overall, HMS serves as a comprehensive tool to support decision-making and optimize hospital operations, fostering a productive and compliant healthcare environment.

3. PROJECT CATEGORY

Web application

4. Programming languages used

JAVASCRIPT(REACT.js), MYSQL

5. HARDWARE AND SOFTWARE REQUIREMENTS

5.1. HARDWARE REQUIREMENT

- ➢ Processor - intel pentium IV
- ➢ Processor speed - 1.40 gHz
- ➢ RAM - 2GB or above
- ➢ Monitor Resolution - 1000*700 or more

5.2. SOFTWARE REQUIREMENT

- ➢ IDE: VSCODE
- ➢ FRONT-END : REACT.JS, NODE.JS, HTML, CSS , JAVASCRIPT
- ➢ BACKEND : MySQL server 5.1.1
- ➢

6. Structure of the program

6.1. ANALYSIS

The purpose of this system is to manage hospital records efficiently, including patient details, appointments, billing, and medical history. The HMS must provide functionalities for:

- Adding, updating, and deleting patient and doctor information.
- Scheduling and managing appointments.
- Handling billing and payments.
- Maintaining medical records and patient histories.

6.2. Module Descriptions

a) Frontend Modules (React)

- **Login and Authentication Module:**
  Users, such as doctors, administrative staff, or patients, log in to access the HMS. Authentication can be managed with JWT (JSON Web Tokens) or sessions.
- **Dashboard Module:**
  Serves as the central hub for all HMS operations, displaying links to all other modules.
- **Patient Management Module:**
  Form for adding or updating patient information (e.g., name, contact info, medical history).
  Interface for searching, viewing, and deleting patient records.
- **Doctor Management Module:**
  Form for adding or updating doctor information (e.g., name, contact, specialization).
  Allows administrators to manage doctor schedules and appointments.
- **Appointment Module:**
  Allows patients to book appointments or view their upcoming appointments.
  Calendar view for doctors to manage their schedule and view appointments over time.
- **Billing Module:**
  Interface for generating, viewing, and updating bills for each patient.
  Function to generate and manage payment records and receipts.
- **Medical Records Module:**
  Interface for adding, updating, and viewing patient medical histories and treatment details.
- **Reports Module:**
  Generates detailed reports (e.g., patient visits, billing, doctor schedules) and exports as PDF or Excel.

b) Backend Modules (Express.js + MySQL)

- **Patient Controller:**
  APIs to manage patient records (addPatient, updatePatient, getPatient, deletePatient).
- **Doctor Controller:**
  APIs for managing doctor information, schedules, and appointments.
- **Appointment Controller:**

APIs for booking appointments, managing doctor schedules, and generating appointment records.

- **Billing Controller:**
  APIs to manage billing calculations, process payments, and retrieve billing records.
- **Medical Record Controller:**
  APIs for adding and updating patient medical records, viewing history, and managing treatment information.

- **Report Generator:**
  API for generating and exporting various reports (e.g., patient data, billing, appointments) based on filtered data.

- ## 1.7 LIMITATION
  The Hospital Management System (HMS) has privacy and confidentiality concerns related to patient records. Therefore, a high level of security must be ensured to protect sensitive data.

- ## 1.8 FUTURE SCOPE
  Future advancements for the Hospital Management System could include AI-driven diagnostics, integrations with wearable health devices, telemedicine support, mobile app access, a patient self-service portal for tasks like appointment scheduling and bill payments, and enhanced security with data encryption and role-based access control. These improvements would enhance accessibility, patient care, and regulatory compliance.

CHAPTER 2:

SOFTWARE REQUIREMENTS SPECIFICATIONS

2.1 INTRODUCTION

A Software Requirements Specification (SRS) is a document that defines the software system to be developed, covering both functional and non-functional requirements. It includes use cases that describe user interactions with the software, serving as a communication bridge between the client and developer, ensuring mutual understanding of the project. An SRS provides a foundation for agreement on the software's functionality, serves as a reference for validation, and reduces development costs.

This SRS for the Hospital Management System (HMS) provides an overview, purpose, scope, and detailed requirements for the system, aiming to streamline hospital operations by defining the problem in-depth.

2.2 PURPOSE

The purpose of the SRS for the HMS is to define software functionalities in detail, ensuring clear communication between client and developer. This document covers all features and requirements of the HMS, which aims to centralize hospital data, streamline operations, and improve patient care. A high-quality SRS is crucial to developing efficient, reliable software and controlling development costs.

2.2.1 SCOPE

The HMS project includes the following features and scope:

- **Centralized Platform:** The system operates online, allowing medical staff and patients to access information anytime.
- **Patient Registration and Authentication:** All users must register to access the system. Only authenticated users can view or update their profiles, appointments, and billing information.
- **Medical Record and Appointment Management:** Patients can view their medical history and appointments, while doctors can update patient records.
- **Notifications and Alerts:** Patients and staff receive email notifications for updates on appointments, billing, and lab results.

The HMS is designed to streamline hospital processes and provide real-time information access for medical staff and patients.

2.2.2 Description, Acronyms, and Abbreviations

- **SRS:** Software Requirements Specification
- **HMS:** Hospital Management System
- **OS:** Operating System
- **DBMS:** Database Management System
- **SQL:** Structured Query Language
- **JS:** JavaScript
- **RAM:** Random Access Memory
- **MB:** Mega Bytes

2.2.3 References

- www.w3schools.com
- www.tutorialspoint.com
- www.stackoverflow.com
- "An Integrated Approach to Software Engineering" by PANKAJ JALOTE
- www.geeksforgeeks.com

2.2.4 Overview

The HMS is a web-based platform that centralizes patient records, appointments, billing, and medical data. Users can securely log in to manage profiles, appointments, and billing information. Doctors can view patient histories, update treatment records, and access medical data. Automated notifications improve communication and enhance efficiency within the hospital.

2.3 OVERALL DESCRIPTION

The HMS centralizes essential hospital tasks like patient management, appointment scheduling, billing, and record-keeping, providing secure login for patients and medical staff. Doctors can generate reports, view patient progress, and update medical records, while patients receive notifications for appointments, bills, and test results. The system improves efficiency, streamlines hospital communications, and enhances patient care.

2.4 Product Perspective

The HMS is a web-based solution that centralizes hospital processes, enhancing data accessibility, and improving interactions between patients and medical staff.

2.5 PRODUCT FEATURES

1. **Patient Profile Management:** Secure storage and easy access to patient details, including medical history, contact data, and demographic information.
2. **Appointment and Scheduling Management:** Automated scheduling of appointments and updates for patients and doctors.
3. **Billing Management:** Calculation of fees, insurance processing, and generation of invoices.
4. **Medical Records Management:** Tools for storing and retrieving patient medical histories, treatment plans, and lab results.

2.6 USER CLASSES AND CHARACTERISTICS

In the HMS, there are two primary user classes: Admin and Medical Staff.

- **Admin:** Manages the system, oversees patient records, schedules, billing, and reports.
- **Medical Staff (Doctors/Nurses):** Access patient records, update treatment histories, and view appointments.
- **Patients:** Can view and update profiles, book appointments, and access billing details.

2.7 Design and Implementation Constraints

The HMS should run on any platform (Unix, Linux, Mac, Windows) with a web browser supporting React.js, JavaScript, and AJAX.

- Internet is required for features like email notifications.
- Only authenticated and authorized users may access the system.
- MySQL database is used as the backend to store data.

Database Tables:

- Patient
- Appointment
- Billing
- Medical Records
- User (for authentication)
- Notifications
- Departments

2.8 Assumptions and Dependencies

Assumptions:

1. Users will have internet access and compatible devices.

2. All users must be registered and authenticated.
3. Role-based access control will be applied.
4. Patients have restricted access, while admins and medical staff have broader access.

Dependencies:

1. MySQL for data management.
2. React.js for frontend development.
3. Node.js (or similar) for server-side logic.
4. Internet for email notifications.
5. Secure authentication mechanisms (JWT/OAuth).

2.9 Specific Requirements

2.9.1 External Interface Requirements

The system will accept inputs like patient data, appointment schedules, and billing details, with outputs including patient profiles, notifications, and reports.

2.9.2 User Interfaces

The interface will be user-friendly and responsive, with fast-loading fonts and clean design for a streamlined experience.

2.10 Hardware Interfaces

- **OS:** Unix, Linux, Mac, Windows
- **Processor:** Intel Pentium or higher
- **RAM:** 312MB or higher
- **Monitor:** 14” or larger
- **Input Devices:** Keyboard and mouse

2.11 Software Interfaces

- **Frontend Development:** React.js, JavaScript, AJAX
- **Web Server:** Apache or similar
- **Database Server:** MySQL
- **IDE:** Visual Studio Code, Sublime Text

2.12 Communication Interfaces

Internet connection is required.

2.13 FUNCTIONAL REQUIREMENTS

2.13.1 User Authentication & Role Management

- **Login → Patient/Staff Login** (Authenticated users can access the system)
- **Role-Based Access** → Roles like Admin and Medical Staff determine access level.

2.13.2 Patient Management

- **Add Patient** → Patient (New patient records are created)
- **Edit Patient** → Update patient profile and medical history

2.13.3 Appointment Management

- **Patient** → Appointment (Patients can schedule appointments)
- **Doctor** → Schedule (Doctors can view schedules and approve appointments)

2.13.4 Billing Management

- **Patient** → Billing (Patient bill details are created and updated)
- **Billing Calculation** → Insurance claims and payment processing

2.13.5 Medical Records Management

- **Doctor** → Medical Records (Update treatment and test results)
- **Patient History** → Reviewable by doctors

2.13.6 Notification System

- **Appointment Reminders** → Automated notifications for patients and doctors
- **Billing Notifications** → Updates on pending payments

2.13.7 Reporting and Analytics

- **Patient Data, Billing, Appointments** → Generate detailed reports for hospital management.

2.13.8 Role-Based Access Control

- **User Role** → System access based on role (Admins have full access, medical staff have patient access, patients have limited access)

2.13.9 System Backup and Data Security

- **Data Encryption** → Secure storage of sensitive patient data

CHAPTER 3

SYSTEM DESIGNS

1. Introduction

Design is processes through which requirements are translated into a representation ofthe software .The purpose of the designing phase is to plan a solution for the problem specified by the requirement document i.e. the requirement are translated into software. ‘

The design activities often result in three separate outputs:

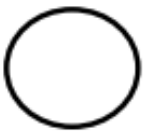
1. Architecture Design
2. High Level Design
3. Detailed Design System

Design is a solution a “How to “approach to the creation of a new system. The importance phase is composed of several steps. It provides the understanding of procedural detail necessary for the system recommended in the feasibility study. Emphasis is on translating theperformance requirement into design specification

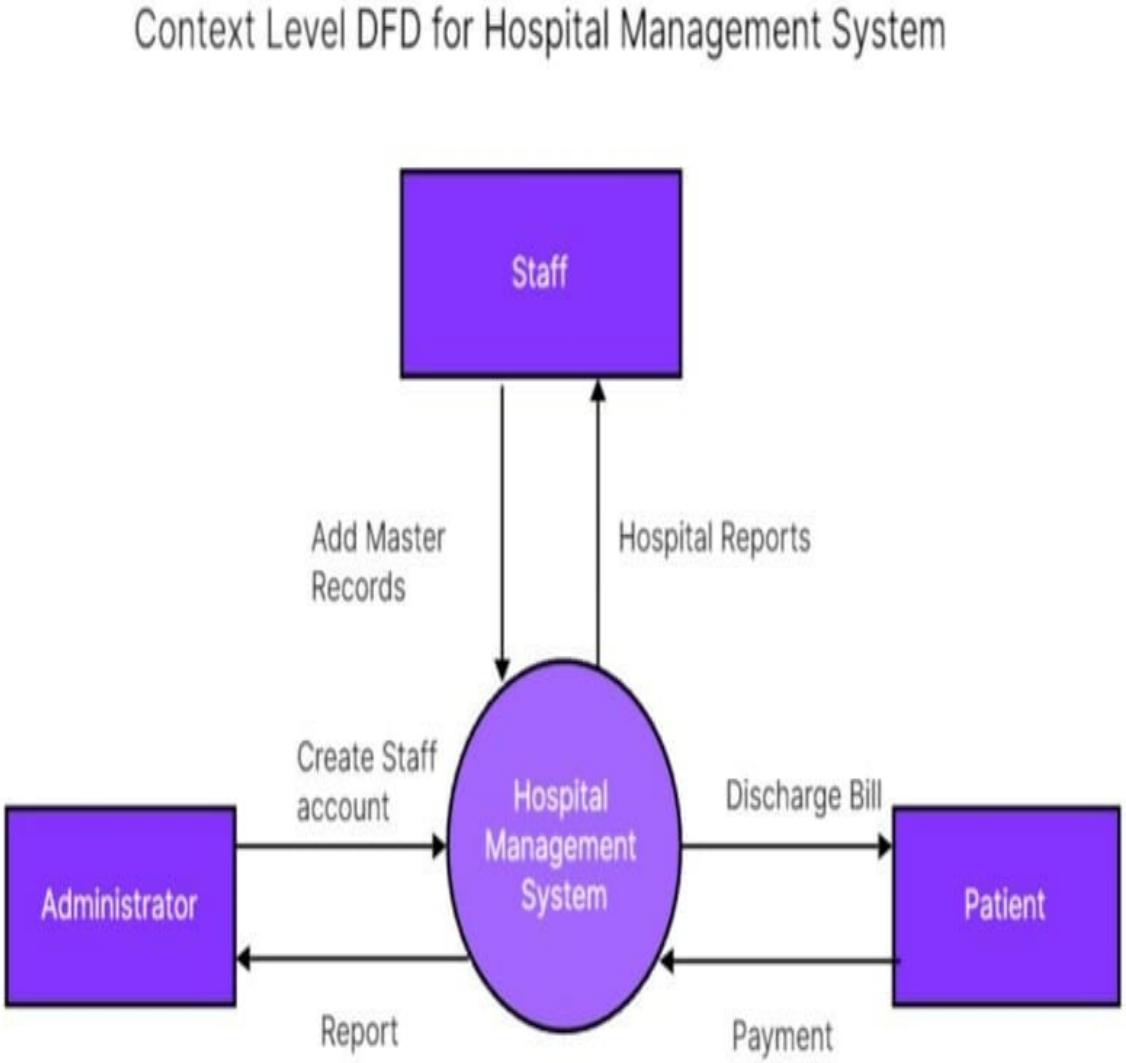
2. Data Flow Diagram

A Data Flow Diagram (DFD) is a graphical representation of the “flow” of the data through an information System. A DFD also can be used for the visualization of data processing. It is common practice for design to draw a context level DFD first which showsthe interaction between the system and outside entities. This context-level DFD is then “exploded” to show more detail of the system being modelled.

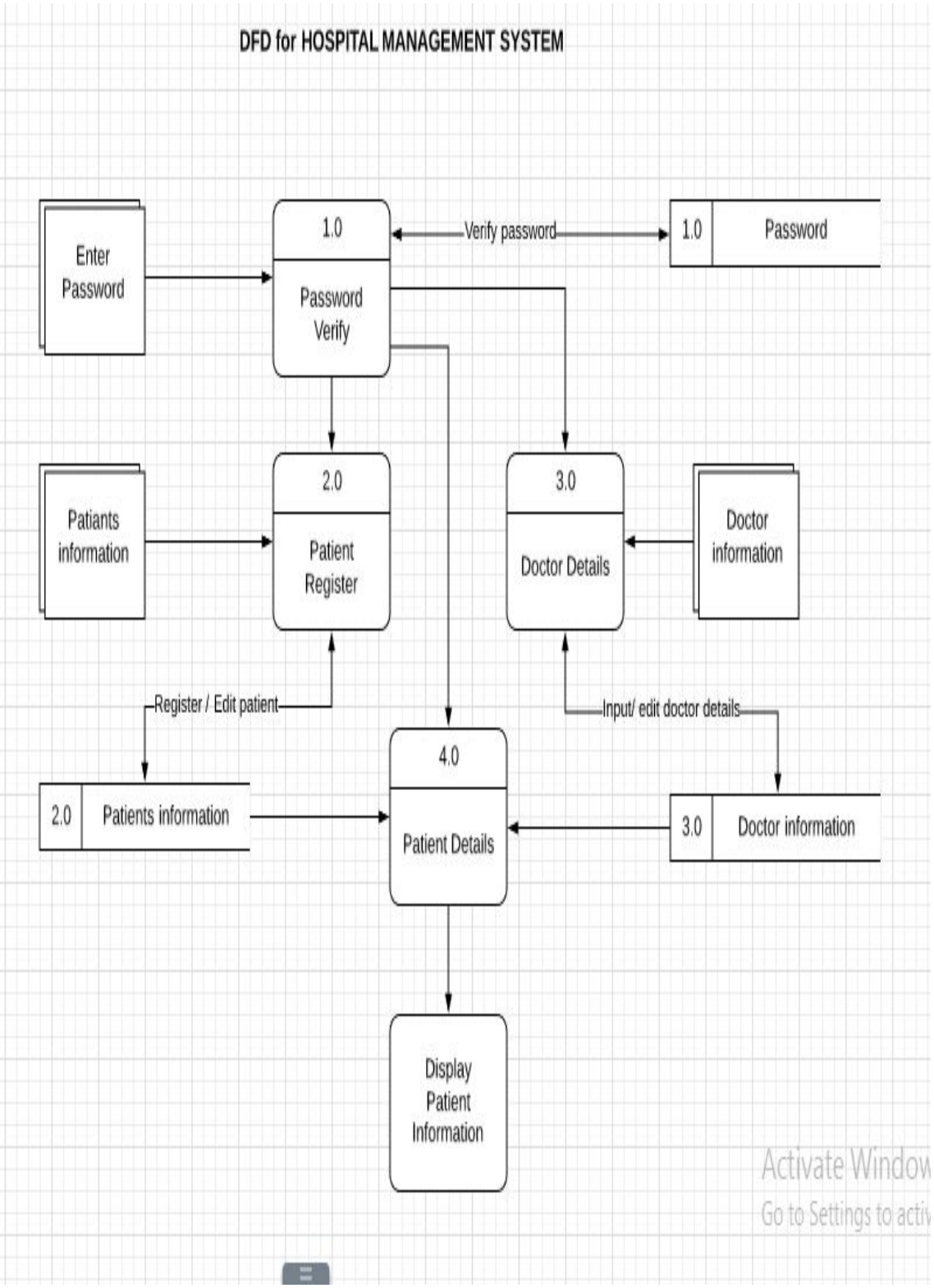
The DFD uses four symbols, and explained below:

A SQUARE 	Which defines the source or destination of system data also called an external entity, is not responsible for any task performed by the System.
An ARROW	Represents data flow. It represents the path over which data travels in the system. A data can move between processes,flow into or out of the stores to and from external entities.It must be given a name the arrow head showing the direction of flow
CIRCLE 	Represents a process that transforms data from one to another by performing some tasks with the data. The process name must be given a general idea of its function
HORIZONLPARALLEL LINES 	Represents data store, a data store is place where data is held temporarily from one transaction to the next or is permanently Data Flow Diagram describes what data flow (logical)rather than how they are processed, so it does not depend on hardware, software, data structure or file organization

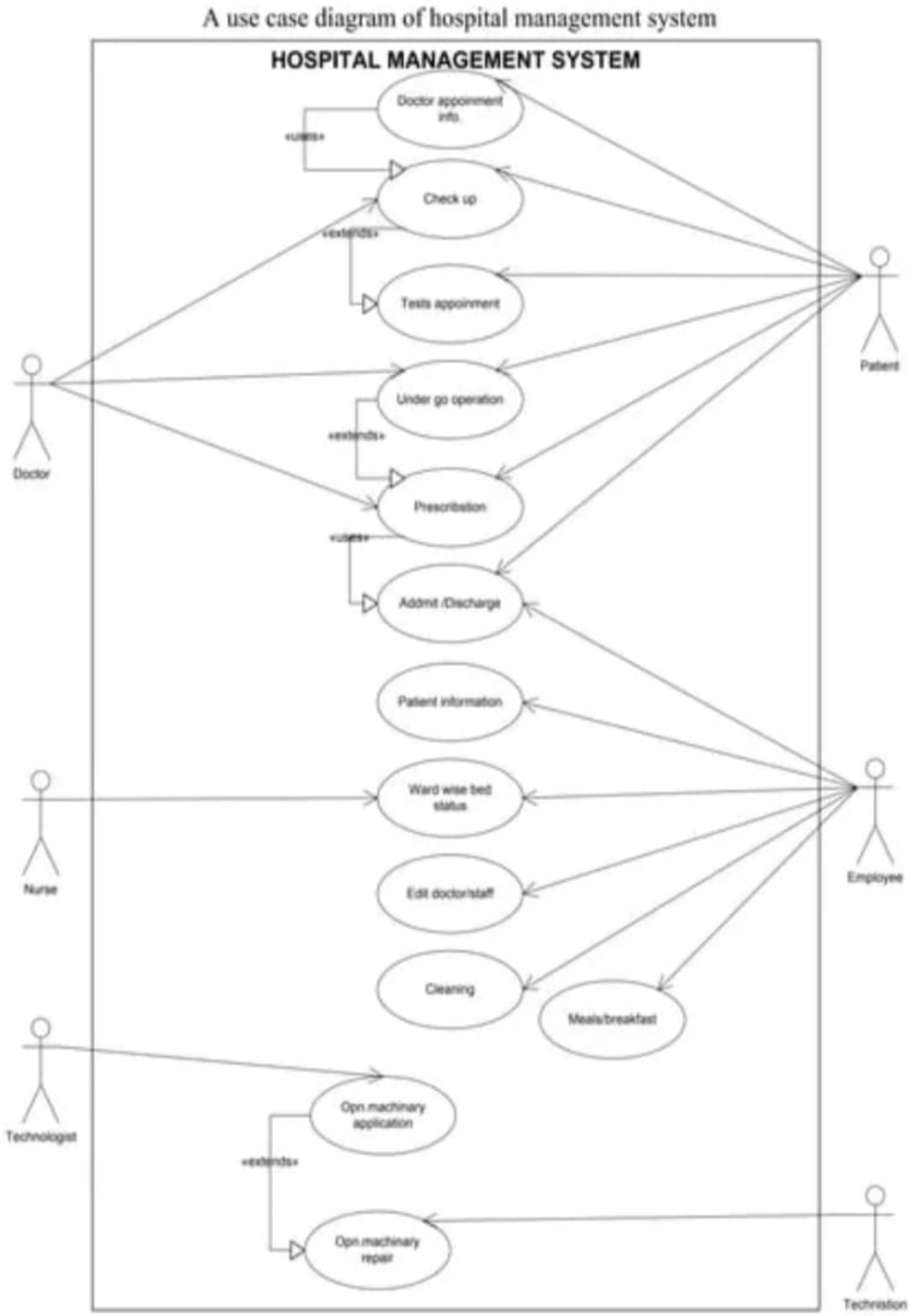
3.3.0 DFD For Level 0 :



3.3.1 DFD for Level 1:

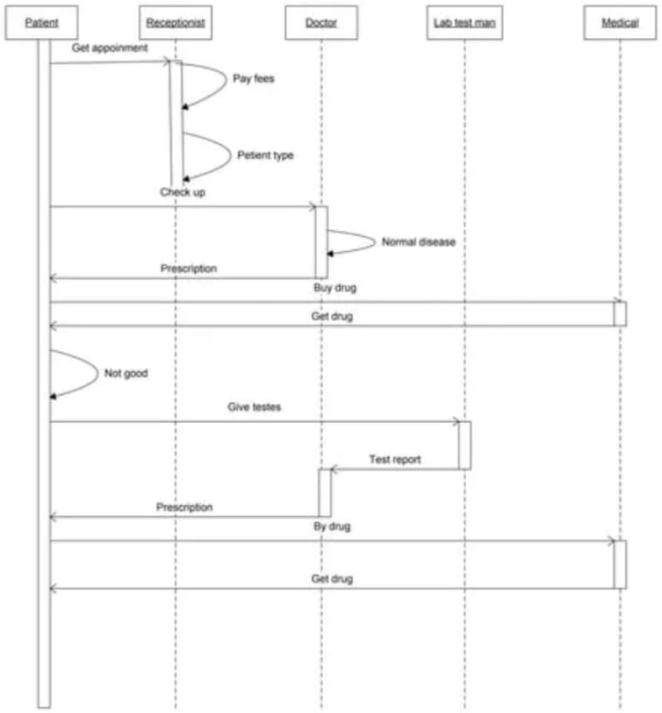

DFD for HOSPITAL MANAGEMENT SYSTEM
Enter Password
1.0
Password Verify
Verify password
1.0
Password
Patiants information
2.0
Patient Register
3.0
Doctor Details
Doctor information
Register / Edit patient
Input/ edit doctor details
2.0
Patients information
4.0
Patient Details
3.0
Doctor information
Display Patient Information
Activate Windows
Go to Settings to activ

3.3.1 USE CASE DIAGRAM :

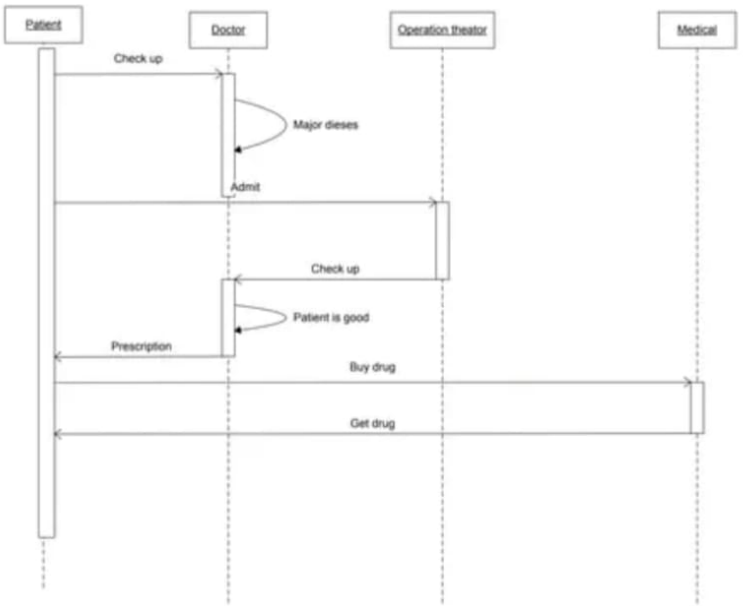


3.3.4 SEQUENCE DIAGRAM :

A sequence-1 diagram for hospital management system



A sequence-2 diagram for hospital management system



CHAPTER 4

DATABASE DESIGN

1. INTRODUCTION

The description of the database is called the database scheme. A database scheme is specifiedduring database creation and is not accepted to change frequently. Most data model has certain conversations for diagrammatically

1.1. Internal level

displaying scheme. The scheme diagram displays only some aspects of the scheme, such aspects are not specified in the scheme diagram, that is neither the data type of each data itemchanges frequently.

The data in the database at a particular moment in timer is called a database state. Schema can be defined in the following three levels.

The internal Level has an internal scheme. It describes the physical storage structure of the database. The internal schema uses a particular data model and describes the completedetails of the data storage and access paths of the database.

1.2. Conceptual level

The conceptual level has a conceptual schema, which describes the structure of the whole database for a community of users. The conceptual schema hides the details of the physicalstorage structure and concentrates on describing entities, data types, relationship user operation and constraints. A high-level data model or an implementation data model can beused in this model.

1.3. External level

External level or view includes a number of external schema or view. Each internal schema describes the part interested in and hides the rest of the database from the user group. A highlevel data model or an implementation model can be used at this level.

2. WHAT IS DATABASE?

A database is an organized collection of data. It is the collection of schema tables, queries, reports, views, and other objects. The data are typically organized to model aspects of realityin a way that supports processes requiring

information. Which can be of any size and complexity. By using the concept of a database, we can easily store and retrieve the data. Themajor purpose of the database is to provide the information, which utilizes data that the system needs according to its own requirements.

3. DATABASE DESIGN

Database design is the process of producing a detailed data model of a database. This data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be usedto create a database. A fully attributed data model contains detailed attributes for each entity.

The term database design can be used to describe many different parts of the design of an overall database system. Principally, and most correctly, it can be thought of as the logical design of the base data structures used to store the data. In the relational model, these are thetables and views. In an object database, the entities and relationships map directly to object classes and named relationships. However, the term database design could also be used to apply to the overall process of designing, not just the base data structures, but also the formsand queries used as part of the overall database application within the database managementsystem (DBMS).

To retrieve data from the database;

- The application program determines what data is needed and communicates the needto the DBMS.
- The data must be defined in the sub schema.
- The copy of the data is given to the operating system for processing.
- A database must be created before it can be used.

TABLE SCHEMA:

1. Patient Table

Column Name	Data Type	Constraints
`patient_id`	INT	PRIMARY KEY, AUTO_INCREMENT
`first_name`	VARCHAR(100)	NOT NULL
`last_name`	VARCHAR(100)	NOT NULL
`date_of_birth`	DATE	NOT NULL
`gender`	ENUM('Male', 'Female', 'Other')	NOT NULL
`phone_number`	VARCHAR(15)	UNIQUE, NOT NULL
`email`	VARCHAR(100)	UNIQUE
`address`	TEXT	
`emergency_contact_name`	VARCHAR(100)	
`emergency_contact_phone`	VARCHAR(15)	
`blood_type`	ENUM('A+', 'A-', 'B+', 'B-', 'O+', 'O-', 'AB+', 'AB-')	
`insurance_number`	VARCHAR(50)	UNIQUE

2. Doctor Table

Column Name	Data Type	Constraints
`doctor_id`	INT	PRIMARY KEY, AUTO_INCREMENT
`first_name`	VARCHAR(100)	NOT NULL
`last_name`	VARCHAR(100)	NOT NULL
`specialization`	VARCHAR(100)	NOT NULL
`phone_number`	VARCHAR(15)	UNIQUE, NOT NULL
`email`	VARCHAR(100)	UNIQUE
`department`	VARCHAR(100)	
`years_of_experience`	INT	
`availability`	VARCHAR(50)	
`created_at`	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

3. Appointment Table

Column Name	Data Type	Constraints
`appointment_id`	INT	PRIMARY KEY, AUTO_INCREMENT
`patient_id`	INT	FOREIGN KEY (patient_id) REFERENCES Patient(patient_id)
`doctor_id`	INT	FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)
`appointment_date`	DATE	NOT NULL
`appointment_time`	TIME	NOT NULL
`status`	ENUM('Scheduled', 'Completed', 'Cancelled', 'No-Show')	DEFAULT 'Scheduled'
`symptoms`	TEXT	
`diagnosis`	TEXT	
`treatment_plan`	TEXT	
`created_at`	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

4. ENTITY RELATIONSHIP DIAGRAM

Entity relationship diagram is used in modern database software. Software engineering is to illustrate logical structure of database. It is a relational schema database, modelling method, used to model a system and approach. This approach is commonly used indatabase design. The diagram created using this are called entity relationship diagram

. The ER diagram depicts the various relationship among entities, considering each object as an entity. Relationship depicts the relationship between data objects. The ERD is the notationthat is used to conduct the data modelling activity.

Entity

Entity is a thing, which we want to store information. It is an elementary basic building blockof storing information about business process. An entity represents an object desired within the information system abut which u want to store information.

Relationship

A relationship is a named connection, associated between entities, or used to relate two ormore entities with some common attributes or meaningful interaction between the object.

Attributes

Attributes are the properties of entities and relationship. Description of the entity. Attributesare elementary pieces of information attached to an entity.

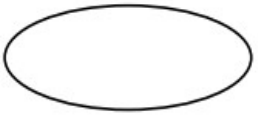
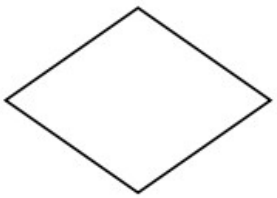
Link

Lines link attributes to entity set and entity sets to relation.

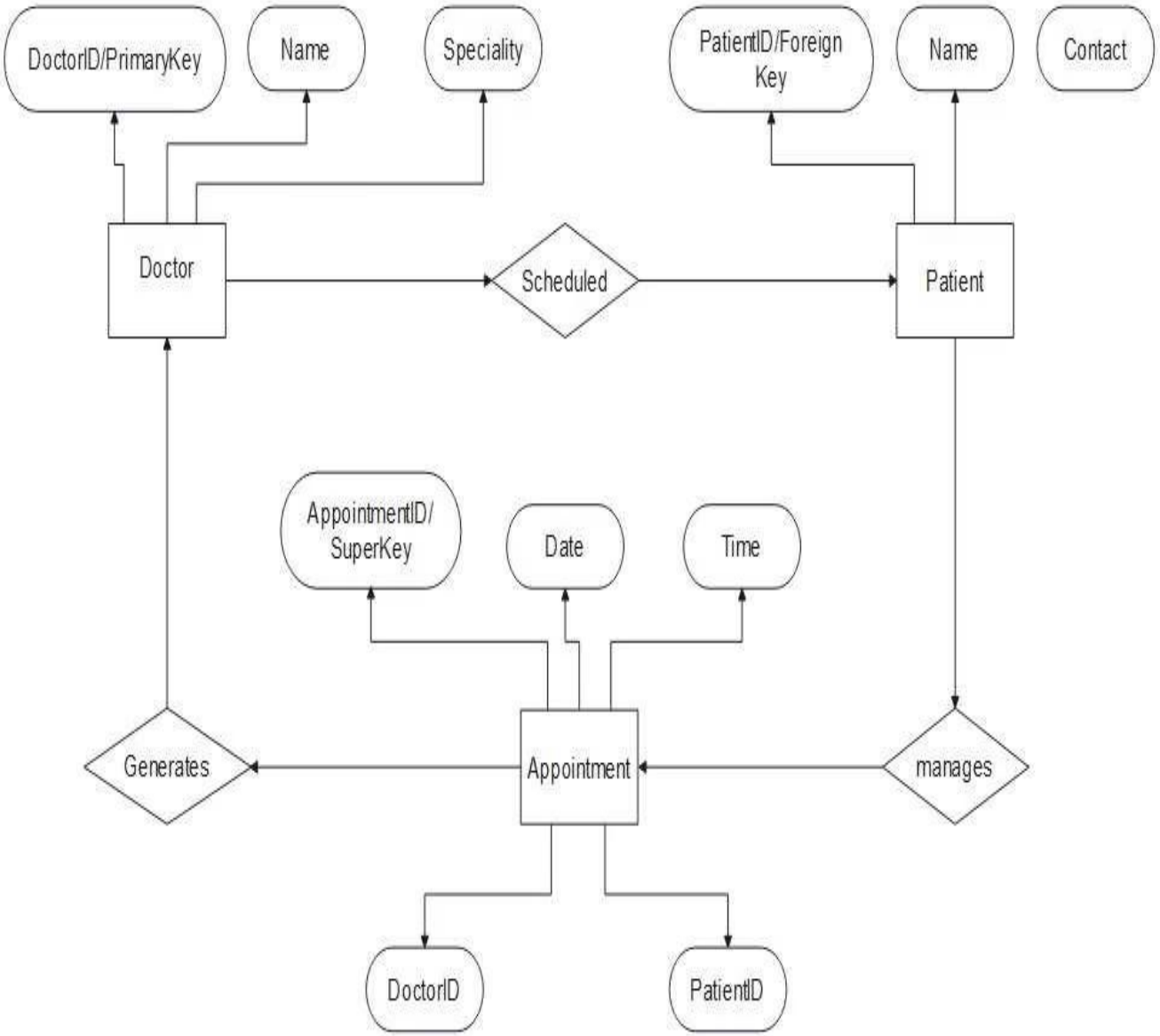
Cardinality Ratio

It specifies the maximum number of relationships instances that an entity can participate in.There are four cardinality ratios.

ER-DIAGRAM SYMBOLS:

Name	Notation	Description
Entity		It may be an object with the physical existence or conceptual existence. It is represented by a rectangle.
Attribute		The properties of the entity. Can be attribute. It is represented by a Ellipse.
Relationship		Whenever an attribute of one entity refers to another entity, some relationship exists. It is represented by a Diamond
Link		Lines link attributes to entity set and entity sets to relation
Cardinality Ratio	1:1 1:N N:1 M:1	It specifies the maximum number of relationships instances that an entity can participate in. There are four cardinality ratios.

ER DIAGRAM FOR HOSPITAL MANAGEMENT SYSTEM:



CHAPTER 5CODING

1. Introduction:

The goal of coding or programming phase is to translate the system design, produced during the designing phase, into code in a given programming language which can be executed by a computer and that performs the computation specified by the design. During the implementation, it should be kept in mind that the programs should not be constructed so thatthey are easy to write, but that they are easy to read and understand.

2. Programming practices:

2.1. Top-down & Bottom-up approaches:

In a top-down implementation, the implementation starts from the top of the hierarchy and proceeds to the lower levels. First the main module is implemented, and their subordinates, and so on. In a bottom-up implementation, the process is the reverse. The development startswith implementing the modules at the bottom of the hierarchy and proceeds through the higher levels until it reaches the top. Top-down and bottom-up implementation should not beconfused with top-down and bottom-up design, here the design is being implemented, and ifthe design is fair detailed and complete, its implementation can proceed in either the top-down manner.

2.2. Structured Programming:

The basic objective of the coding activity is to produce programs are easy to understand. A program has a static structure as well as a dynamic structure. The static structure is the structure of the text of the program, which is usually just a line organization of statements ofthe program. The dynamic structure of the program is the sequences of statements executed during the execution of the program.

In other words both the static structure and the dynamic behavior are sequences of statements; when the sequence representing the static structure is fixed, the sequences ofstatements it executable can change from execution to execution.

2.3. Information Hiding:

A software solution to a problem always contains data structures that are meaningfully represent information in the problem domain. That is, when software is developed results a problem, the software uses some data structures to capture the information in the problem domain. Any software solution to a

problem contains data structures that represent information in the problem domain. In the problem domain, in general, only certain operations are performed on some information. That is, a piece of information in the problem domain is used only in a limited number of ways in the problem domain.

2.4. Programming style:

Here we will list some general rules that can be applied for writing good code.

Names: Selecting module and variable names is often not considered important novice programmers. Most variable sin a program reflects some entity in the problem domain, and the modules reflect some process. Variable names should be closely related to the entity theyrepresent, and module names should reflect their activity.

Control constraints: As discussed earlier, it is desirable that as much as possible single entry, single exit constructs be used. It is also desirable to use a few standard control constructs rather than using a wide variety of constructs, just because they are available in thelanguage.

Information hiding: As discussed earlier, information hiding should be supported where possible. Only the access functions for the data structures should be made visible while hiding the data structures behind these functions. User-defined types: Modern languages allow users to define data types when such facilities are available, they should be exploitedwhere applicable.

Nesting: The different control constructs, particularly the if-then-else, can be nested. If thenesting becomes too deep, the programs become harder to understand. In case of deeply nested if-then-elses, it is often difficult to determine if statement to which a particular else clause is associated. If possible, deep nesting should be avoided.

2.5. Verification:

Verification of the output of the coding phase is primarily interested for detecting errors introduced during this phase. That is, the goal of verification of the code produced is to show that the code is consistent with the design is supposed to implement. It should be avoided out that by verification we mean providing correctness of programs. Program verification methodfalls into two categoriesstatic and dynamic methods.

In dynamic methods, the program executes some test data and the outputs of the program areexamined to determine if there are any errors present. Static techniques, on the other hand, donot involve actual program execution on actual numeric data, though it may involve some form of conceptual execution:

2.5.1. Code Reading:

Code reading involves careful reading of the code by the programmer to detect any discrepancies between the design specifications and the actual implementation. It involvesdetermining the abstraction of a module and then comparing it with its specifications.

The process of code reading is best done by reading the code insideout, starting with theinnermost structure of the module. First determine its abstract behavior and specify the

abstraction. Then the higher level structure is considered, with the inner structure replaced byits abstraction. This process is continued until we reach the module or program being read.

2.5.2. Static analysis:

Analysis of programs by methodically analyzing the program text is called static analysis is usually performed mechanically by the aid of software tools. During static analysis the program itself is not executed, but the program text is the input to the tools. The aim of the static analysis tools is to detect errors or potential errors or to generate information about the structure of the program that can be useful for documentation or understanding of the programs. An advantage is that static analysis sometimes detects the errors themselves, not just the presence of errors as in testing. This saves the effort of tracing the error from the datathat reveals the presence of errors. Static analysis can provide insight into the structure of theprogram.

2.5.3. Symbolic execution:

Inputs to the program are not numbers but symbols representing the input data, which can take different values. The execution of the program proceeds like normal execution, except that it deals with values that are not numbers but formulates consisting of the symbolic input values. The outputs are symbolic formulae of input values. These formulae can be checked tosee if the program will behave as expected. This approach is called as symbolic execution.

CODES:

func1.php

```
<?php
session_start();
$con=mysqli_connect("localhost","root","","myhmsdb");
if(isset($_POST['docsub1'])){
	$dname=$_POST['username3'];
	$dpass=$_POST['password3'];
	$query="select * from doctb where username='$dname' and
password='$dpass';";
	$result=mysqli_query($con,$query);
	if(mysqli_num_rows($result)==1)
	{
```

```
   while($row=mysqli_fetch_array($result,MYSQLI_ASSOC)){

                $_SESSION['dname']=$row['username'];

   }
            header("Location:doctor-panel.php");
       }
       else{
   // header("Location:error2.php");
   echo("<script>alert('Invalid Username or Password. Try Again!');
        window.location.href = 'index.php';</script>");
  }
}


// if(isset($_POST['update_data']))
//   $result=mysqli_query($con,$query);
//   if(mysqli_num_rows($result)==1)
//   {
//     $_SESSION['username']=$username;
//     header("Location:admin-panel.php");
//   }
//   else
//     header("Location:error2.php");




function display_docs()
{
       global $con;
       $query="select * from doctb";
       $result=mysqli_query($con,$query);
       while($row=mysqli_fetch_array($result))
       {
            $name=$row['name'];
            # echo'<option value="" disabled selected>Select Doctor</
option>';
            echo '<option value="'.$name.'">'.$name.'</option>';
```

```
        }
}

// if(isset($_POST['doc_sub']))
// {
//      $name=$_POST['name'];
//      $query="insert into doctb(name)values('$name')";
//      $result=mysqli_query($con,$query);
//      if($result)
//              header("Location:adddoc.php");
// }


function display_admin_panel(){
        echo '<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">
    <link rel="stylesheet" type="text/css" href="font-awesome-4.7.0/css/font-
awesome.min.css">
    <link rel="stylesheet" href="style.css">
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/
4.0.0-beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/
Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M"
crossorigin="anonymous">
     <nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-
top">
  <a class="navbar-brand" href="#"><i class="fa fa-user-plus" aria-
hidden="true"></i> Global Hospital</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
```

```
<div class="collapse navbar-collapse" id="navbarSupportedContent">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item">
       <a class="nav-link" href="logout.php"><i class="fa fa-sign-out" aria-hidden="true"></i>Logout</a>
     </li>
      <li class="nav-item">
       <a class="nav-link" href="#"></a>
     </li>
   </ul>
   <form class="form-inline my-2 my-lg-0" method="post" action="search.php">
     <input class="form-control mr-sm-2" type="text" placeholder="enter contact number" aria-label="Search" name="contact">
     <input type="submit" class="btn btn-outline-light my-2 my-sm-0 btn btn-outline-light" id="inputbtn" name="search_submit" value="Search">
   </form>
  </div>
</nav>
  </head>
  <style type="text/css">
   button:hover{cursor:pointer;}
   #inputbtn:hover{cursor:pointer;}
  </style>
  <body style="padding-top:50px;">
 <div class="jumbotron" id="ab1"></div>
   <div class="container-fluid" style="margin-top:50px;">
    <div class="row">
  <div class="col-md-4">
    <div class="list-group" id="list-tab" role="tablist">
     <a class="list-group-item list-group-item-action active" id="list-home-list" data-toggle="list" href="#list-home" role="tab" aria-controls="home">Appointment</a>
     <a class="list-group-item list-group-item-action" href="patientdetails.php" role="tab" aria-controls="home">Patient List</a>
     <a class="list-group-item list-group-item-action" id="list-profile-list" data-toggle="list" href="#list-profile" role="tab" aria-controls="profile">Payment Status</a>
```

```
    <a class="list-group-item list-group-item-action" id="list-messages-list"
data-toggle="list" href="#list-messages" role="tab" aria-
controls="messages">Prescription</a>
    <a class="list-group-item list-group-item-action" id="list-settings-list"
data-toggle="list" href="#list-settings" role="tab" aria-
controls="settings">Doctors Section</a>
     <a class="list-group-item list-group-item-action" id="list-attend-list"
data-toggle="list" href="#list-attend" role="tab" aria-
controls="settings">Attendance</a>
   </div><br>
  </div>




  <div class="col-md-8">
   <div class="tab-content" id="nav-tabContent">
    <div class="tab-pane fade show active" id="list-home" role="tabpanel"
aria-labelledby="list-home-list">
      <div class="container-fluid">
       <div class="card">
        <div class="card-body">
         <center><h4>Create an appointment</h4></center><br>
         <form class="form-group" method="post"
action="appointment.php">
          <div class="row">
           <div class="col-md-4"><label>First Name:</label></div>
           <div class="col-md-8"><input type="text" class="form-control"
name="fname"></div><br><br>
           <div class="col-md-4"><label>Last Name:</label></div>
           <div class="col-md-8"><input type="text" class="form-control"
name="lname"></div><br><br>
           <div class="col-md-4"><label>Email id:</label></div>
           <div class="col-md-8"><input type="text"  class="form-control"
name="email"></div><br><br>
           <div class="col-md-4"><label>Contact Number:</label></div>
```

```
            <div class="col-md-8"><input type="text" class="form-control"
name="contact"></div><br><br>
            <div class="col-md-4"><label>Doctor:</label></div>
            <div class="col-md-8">
             <select name="doctor" class="form-control" >

              <!-- <option value="" disabled selected>Select Doctor</option>
              <option value="Dr. Punam Shaw">Dr. Punam Shaw</option>
               <option value="Dr. Ashok Goyal">Dr. Ashok Goyal</option> --
>
               <?php display_docs();?>




              </select>
            </div><br><br>
            <div class="col-md-4"><label>Payment:</label></div>
            <div class="col-md-8">
              <select name="payment" class="form-control" >
                <option value="" disabled selected>Select Payment Status</
option>
                <option value="Paid">Paid</option>
                <option value="Pay later">Pay later</option>
              </select>
            </div><br><br><br>
            <div class="col-md-4">
              <input type="submit" name="entry_submit" value="Create new
entry" class="btn btn-primary" id="inputbtn">
            </div>
            <div class="col-md-8"></div>
           </div>
          </form>
         </div>
        </div>
       </div><br>
     </div>
     <div class="tab-pane fade" id="list-profile" role="tabpanel" aria-
labelledby="list-profile-list">
```

```
      <div class="card">
        <div class="card-body">
          <form class="form-group" method="post" action="func.php">
            <input type="text" name="contact" class="form-control"
placeholder="enter contact"><br>
            <select name="status" class="form-control">
             <option value="" disabled selected>Select Payment Status to
update</option>
              <option value="paid">paid</option>
              <option value="pay later">pay later</option>
            </select><br><hr>
            <input type="submit" value="update" name="update_data"
class="btn btn-primary">
          </form>
        </div>
      </div><br><br>
    </div>
    <div class="tab-pane fade" id="list-messages" role="tabpanel" aria-
labelledby="list-messages-list">...</div>
    <div class="tab-pane fade" id="list-settings" role="tabpanel" aria-
labelledby="list-settings-list">
      <form class="form-group" method="post" action="func.php">
        <label>Doctors name: </label>
        <input type="text" name="name" placeholder="enter doctors name"
class="form-control">
        <br>
        <input type="submit" name="doc_sub" value="Add Doctor"
class="btn btn-primary">
      </form>
    </div>
     <div class="tab-pane fade" id="list-attend" role="tabpanel" aria-
labelledby="list-attend-list">...</div>
   </div>
  </div>
</div>
  </div>
   <!-- Optional JavaScript -->
   <!-- jQuery first, then Popper.js, then Bootstrap JS -->
   <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
```

```
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/
Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/
popper.min.js" integrity="sha384-b/U6ypiBEHpOf/
4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4"
crossorigin="anonymous"></script>
   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/
bootstrap.min.js" integrity="sha384-
h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RD
IqNm1" crossorigin="anonymous"></script>
    <!--Sweet alert js-->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/limonte-
sweetalert2/7.33.1/sweetalert2.all.js"></script>
  <script type="text/javascript">
  $(document).ready(function(){
      swal({
  title: "Welcome!",
  text: "Have a nice day!",
  imageUrl: "images/sweet.jpg",
  imageWidth: 400,
  imageHeight: 200,
  imageAlt: "Custom image",
  animation: false
})</script>
  </body>
</html>';
}
?>
```

func2.php

```
<?php
session_start();
$con=mysqli_connect("localhost","root","","myhmsdb");
if(isset($_POST['patsub1'])){
      $fname=$_POST['fname'];
```

```
  $lname=$_POST['lname'];
  $gender=$_POST['gender'];
  $email=$_POST['email'];
  $contact=$_POST['contact'];
       $password=$_POST['password'];
  $cpassword=$_POST['cpassword'];
  if($password==$cpassword){
       $query="insert into
patreg(fname,lname,gender,email,contact,password,cpassword) values
('$fname','$lname','$gender','$email','$contact','$password','$cpassword');";
    $result=mysqli_query($con,$query);
    if($result){
       $_SESSION['username'] = $_POST['fname']." ".$_POST['lname'];
       $_SESSION['fname'] = $_POST['fname'];
       $_SESSION['lname'] = $_POST['lname'];
       $_SESSION['gender'] = $_POST['gender'];
       $_SESSION['contact'] = $_POST['contact'];
       $_SESSION['email'] = $_POST['email'];
       header("Location:admin-panel.php");
    }

    $query1 = "select * from patreg;";
    $result1 = mysqli_query($con,$query1);
    if($result1){
      $_SESSION['pid'] = $row['pid'];
    }

  }
  else{
    header("Location:error1.php");
  }
}
if(isset($_POST['update_data']))
{
```

```
        $contact=$_POST['contact'];
        $status=$_POST['status'];
        $query="update appointmenttb set payment='$status' where
contact='$contact';";
        $result=mysqli_query($con,$query);
        if($result)
                header("Location:updated.php");
}




// function display_docs()
// {
//      global $con;
//      $query="select * from doctb";
//      $result=mysqli_query($con,$query);
//      while($row=mysqli_fetch_array($result))
//      {
//              $name=$row['name'];
//              # echo'<option value="" disabled selected>Select Doctor</
option>';
//              echo '<option value="'.$name.'">'.$name.'</option>';
//      }
// }

if(isset($_POST['doc_sub']))
{
        $name=$_POST['name'];
        $query="insert into doctb(name)values('$name')";
        $result=mysqli_query($con,$query);
        if($result)
                header("Location:adddoc.php");
}
```

```
function display_admin_panel(){
      echo '<!DOCTYPE html>
<html lang="en">
 <head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <link rel="stylesheet" type="text/css" href="font-awesome-4.7.0/css/font-awesome.min.css">
  <link rel="stylesheet" href="style.css">
  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M" crossorigin="anonymous">
    <nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-top">
 <a class="navbar-brand" href="#"><i class="fa fa-user-plus" aria-hidden="true"></i> Global Hospital</a>
 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
  <span class="navbar-toggler-icon"></span>
 </button>

 <div class="collapse navbar-collapse" id="navbarSupportedContent">
   <ul class="navbar-nav mr-auto">
    <li class="nav-item">
     <a class="nav-link" href="logout.php"><i class="fa fa-sign-out" aria-hidden="true"></i>Logout</a>
    </li>
    <li class="nav-item">
     <a class="nav-link" href="#"></a>
    </li>
```

```
    </ul>
    <form class="form-inline my-2 my-lg-0" method="post"
action="search.php">
      <input class="form-control mr-sm-2" type="text" placeholder="enter
contact number" aria-label="Search" name="contact">
      <input type="submit" class="btn btn-outline-light my-2 my-sm-0 btn btn-
outline-light" id="inputbtn" name="search_submit" value="Search">
    </form>
  </div>
</nav>
  </head>
  <style type="text/css">
    button:hover{cursor:pointer;}
    #inputbtn:hover{cursor:pointer;}
  </style>
  <body style="padding-top:50px;">
 <div class="jumbotron" id="ab1"></div>
   <div class="container-fluid" style="margin-top:50px;">
    <div class="row">
  <div class="col-md-4">
    <div class="list-group" id="list-tab" role="tablist">
      <a class="list-group-item list-group-item-action active" id="list-home-
list" data-toggle="list" href="#list-home" role="tab" aria-
controls="home">Appointment</a>
      <a class="list-group-item list-group-item-action"
href="patientdetails.php" role="tab" aria-controls="home">Patient List</
a>
      <a class="list-group-item list-group-item-action" id="list-profile-list"
data-toggle="list" href="#list-profile" role="tab" aria-
controls="profile">Payment Status</a>
      <a class="list-group-item list-group-item-action" id="list-messages-list"
data-toggle="list" href="#list-messages" role="tab" aria-
controls="messages">Prescription</a>
      <a class="list-group-item list-group-item-action" id="list-settings-list"
data-toggle="list" href="#list-settings" role="tab" aria-
controls="settings">Doctors Section</a>
```

```
      <a class="list-group-item list-group-item-action" id="list-attend-list" data-toggle="list" href="#list-attend" role="tab" aria-controls="settings">Attendance</a>
    </div><br>
  </div>

  <div class="col-md-8">
    <div class="tab-content" id="nav-tabContent">
      <div class="tab-pane fade show active" id="list-home" role="tabpanel" aria-labelledby="list-home-list">
        <div class="container-fluid">
          <div class="card">
            <div class="card-body">
              <center><h4>Create an appointment</h4></center><br>
              <form class="form-group" method="post" action="appointment.php">
                <div class="row">
                  <div class="col-md-4"><label>First Name:</label></div>
                  <div class="col-md-8"><input type="text" class="form-control" name="fname"></div><br><br>
                  <div class="col-md-4"><label>Last Name:</label></div>
                  <div class="col-md-8"><input type="text" class="form-control" name="lname"></div><br><br>
                  <div class="col-md-4"><label>Email id:</label></div>
                  <div class="col-md-8"><input type="text"  class="form-control" name="email"></div><br><br>
                  <div class="col-md-4"><label>Contact Number:</label></div>
                  <div class="col-md-8"><input type="text" class="form-control" name="contact"></div><br><br>
```

```
            <div class="col-md-4"><label>Doctor:</label></div>
            <div class="col-md-8">
             <select name="doctor" class="form-control" >

              <!-- <option value="" disabled selected>Select Doctor</option>
              <option value="Dr. Punam Shaw">Dr. Punam Shaw</option>
               <option value="Dr. Ashok Goyal">Dr. Ashok Goyal</option> --
>
               <?php display_docs();?>




              </select>
            </div><br><br>
            <div class="col-md-4"><label>Payment:</label></div>
            <div class="col-md-8">
              <select name="payment" class="form-control" >
               <option value="" disabled selected>Select Payment Status</
option>
               <option value="Paid">Paid</option>
               <option value="Pay later">Pay later</option>
              </select>
            </div><br><br><br>
            <div class="col-md-4">
              <input type="submit" name="entry_submit" value="Create new
entry" class="btn btn-primary" id="inputbtn">
            </div>
            <div class="col-md-8"></div>
           </div>
          </form>
         </div>
        </div>
       </div><br>
     </div>
```

```
    <div class="tab-pane fade" id="list-profile" role="tabpanel" aria-labelledby="list-profile-list">
      <div class="card">
        <div class="card-body">
          <form class="form-group" method="post" action="func.php">
            <input type="text" name="contact" class="form-control" placeholder="enter contact"><br>
            <select name="status" class="form-control">
             <option value="" disabled selected>Select Payment Status to update</option>
              <option value="paid">paid</option>
              <option value="pay later">pay later</option>
            </select><br><hr>
            <input type="submit" value="update" name="update_data" class="btn btn-primary">
          </form>
        </div>
      </div><br><br>
    </div>
    <div class="tab-pane fade" id="list-messages" role="tabpanel" aria-labelledby="list-messages-list">...</div>
    <div class="tab-pane fade" id="list-settings" role="tabpanel" aria-labelledby="list-settings-list">
      <form class="form-group" method="post" action="func.php">
        <label>Doctors name: </label>
        <input type="text" name="name" placeholder="enter doctors name" class="form-control">
        <br>
        <input type="submit" name="doc_sub" value="Add Doctor" class="btn btn-primary">
      </form>
    </div>
     <div class="tab-pane fade" id="list-attend" role="tabpanel" aria-labelledby="list-attend-list">...</div>
  </div>
```

```
  </div>
</div>
  </div>
   <!-- Optional JavaScript -->
   <!-- jQuery first, then Popper.js, then Bootstrap JS -->
   <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/
Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/
popper.min.js" integrity="sha384-b/U6ypiBEHpOf/
4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4"
crossorigin="anonymous"></script>
   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/
bootstrap.min.js" integrity="sha384-
h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RD
IqNm1" crossorigin="anonymous"></script>
   <!--Sweet alert js-->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/limonte-
sweetalert2/7.33.1/sweetalert2.all.js"></script>
  <script type="text/javascript">
  $(document).ready(function(){
      swal({
  title: "Welcome!",
  text: "Have a nice day!",
  imageUrl: "images/sweet.jpg",
  imageWidth: 400,
  imageHeight: 200,
  imageAlt: "Custom image",
  animation: false
})</script>
  </body>
</html>';
}
?>
```

Index

```
<?php
include("header.php");
?>
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">

    <!-- Bootstrap CSS -->
    <link href="https://fonts.googleapis.com/css?
family=IBM+Plex+Sans&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-
beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/
Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M"
crossorigin="anonymous">
    <link rel="stylesheet" href="vendor/fontawesome/css/font-awesome.min.css">
    <link href="font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css" />

    <link rel="stylesheet" type="text/css" href="style2.css">



  </head>
  <style type="text/css">
    #inputbtn:hover{cursor:pointer;}
    .card{
    background: #f8f9fa;
    border-top-left-radius: 5% 5%;
    border-bottom-left-radius: 5% 5%;
    border-top-right-radius: 5% 5%;
    border-bottom-right-radius: 5% 5%;
}

  </style>
```

```
 <body style="background: -webkit-linear-gradient(left, #3931af, #00c6ff);
background-size: cover;">
   <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav" >
   <div class="container">

    <a class="navbar-brand js-scroll-trigger" href="index.php" style="margin-top:
10px;margin-left:-65px;font-family: 'IBM Plex Sans', sans-serif;"><h4><i class="fa
fa-user-plus" aria-hidden="true"></i>  GLOBAL HOSPITALS</h4></a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarResponsive" aria-controls="navbarResponsive" aria-
expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarResponsive">
     <ul class="navbar-nav ml-auto">
      <li class="nav-item" style="margin-right: 40px;">
       <a class="nav-link js-scroll-trigger" href="index.php" style="color:
white;font-family: 'IBM Plex Sans', sans-serif;"><h6>HOME</h6></a>
      </li>

      <li class="nav-item" style="margin-right: 40px;">
       <a class="nav-link js-scroll-trigger" href="services.html" style="color:
white;font-family: 'IBM Plex Sans', sans-serif;"><h6>ABOUT US</h6></a>
      </li>

      <li class="nav-item">
       <a class="nav-link js-scroll-trigger" href="contact.html" style="color:
white;font-family: 'IBM Plex Sans', sans-serif;"><h6>CONTACT</h6></a>
      </li>
     </ul>
    </div>
   </div>
  </nav>



   <div class="container-fluid" style="margin-top:60px;margin-
bottom:60px;color:#34495E;">
    <div class="row">
```

```
      <div class="col-md-7" style="padding-left: 180px; ">
            <div style="-webkit-animation: mover 2s infinite alternate;
   animation: mover 1s infinite alternate;">
       <img src="images/ambulance1.png" alt="" style="width: 20%;padding-left:
40px;margin-top: 150px;margin-left: 45px;margin-bottom:15px">
    </div>

    <div style="color: white;">
        <h4 style="font-family: 'IBM Plex Sans', sans-serif;"> We are here for you!
</h4>
       </div>

      </div>

      <div class="col-md-4" style="margin-top: 5%;right: 8%">
       <div class="card" style="font-family: 'IBM Plex Sans', sans-serif;">
        <div class="card-body">
         <center>
          <i class="fa fa-hospital-o fa-3x" aria-hidden="true"
style="color:#0062cc"></i>
           <br>
         <h3 style="margin-top: 10%">Patient Login</h3><br>
         <form class="form-group" method="POST" action="func.php">
          <div class="row" style="margin-top: 10%">
           <div class="col-md-4"><label>Email-ID: </label></div>
           <div class="col-md-8"><input type="text" name="email" class="form-
control" placeholder="enter email ID" required/></div><br><br>
           <div class="col-md-4" style="margin-top: 8%"><label>Password: </
label></div>
           <div class="col-md-8" style="margin-top: 8%"><input
type="password" class="form-control" name="password2" placeholder="enter
password" required/></div><br><br><br>
          </div>
          <div class="row">
           <div class="col-md-4"  style="padding-left: 160px;margin-top: 10%">
            <center><input type="submit" id="inputbtn" name="patsub"
value="Login" class="btn btn-primary"></center></div>
           <!--  <div class="col-md-8" style="margin-top: 10%">
            <a href="index.php" class="btn btn-primary">Back</a></div> -->
          </div>
```

```
          </form>
        </center>
        </div>
      </div>
    </div>


  </div>
 </div>




  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/
GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/
popper.min.js" integrity="sha384-b/U6ypiBEHpOf/
4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4"
crossorigin="anonymous"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/
bootstrap.min.js" integrity="sha384-
h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RDIqNm1
" crossorigin="anonymous"></script>
 </body>
</html>
```

patientSearch.php

```
<!DOCTYPE html>
 <?php #include("func.php");?>
<html>
<head>
        <title>Patient Details</title>
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/
```

```
4.0.0-beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/
Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M"
crossorigin="anonymous">
</head>
<body>
<?php
include("newfunc.php");
if(isset($_POST['patient_search_submit']))
{
        $contact=$_POST['patient_contact'];
        $query = "select * from patreg where contact= '$contact'";
 $result = mysqli_query($con,$query);
 $row=mysqli_fetch_array($result);
 if($row['lname']=="" & $row['email']=="" & $row['contact']=="" &
$row['password']==""){
   echo "<script> alert('No entries found! Please enter valid details');
        window.location.href = 'admin-panel1.php#list-doc';</script>";
 }
 else {
   echo "<div class='container-fluid' style='margin-top:50px;'>
        <div class='card'>
        <div class='card-body' style='background-color:#342ac1;color:#ffffff;'>
<table class='table table-hover'>
 <thead>
   <tr>
     <th scope='col'>First Name</th>
     <th scope='col'>Last Name</th>
     <th scope='col'>Email</th>
     <th scope='col'>Contact</th>
     <th scope='col'>Password</th>
   </tr>
 </thead>
 <tbody>";


                $fname = $row['fname'];
      $lname = $row['lname'];
      $email = $row['email'];
      $contact = $row['contact'];
      $password = $row['password'];
      echo "<tr>
```

```
        <td>$fname</td>
        <td>$lname</td>
        <td>$email</td>
        <td>$contact</td>
        <td>$password</td>
      </tr>";

        echo "</tbody></table><center><a href='admin-panel1.php' class='btn btn-light'>Back to dashboard</a></div></center></div></div></div>";
}
  }

?>
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/popper.min.js" integrity="sha384-b/U6ypiBEHpOf/4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4" crossorigin="anonymous"></script>
   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/bootstrap.min.js" integrity="sha384-h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RDIqNm1" crossorigin="anonymous"></script>
</body>
</html>
```

doctorSearch.php

```
<!DOCTYPE html>
 <?php #include("func.php");?>
<html>
<head>
        <title>Doctor Details</title>
  <link rel="shortcut icon" type="image/x-icon" href="images/favicon.png" />
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M" crossorigin="anonymous">
</head>
```

```
<body>
<?php
include("newfunc.php");
if(isset($_POST['doctor_search_submit']))
{
        $contact=$_POST['doctor_contact'];
  $query = "select * from doctb where email= '$contact'";
  $result = mysqli_query($con,$query);
  $row=mysqli_fetch_array($result);
  if($row['username']=="" & $row['password']=="" & $row['email']=="" &
$row['docFees']==""){
    echo "<script> alert('No entries found!');
        window.location.href = 'admin-panel1.php#list-doc';</script>";
  }
  else {
    echo "<div class='container-fluid' style='margin-top:50px;'>
        <div class ='card'>
        <div class='card-body' style='background-color:#342ac1;color:#ffffff;'>
<table class='table table-hover'>
  <thead>
    <tr>
      <th scope='col'>Username</th>
      <th scope='col'>Password</th>
      <th scope='col'>Email</th>
      <th scope='col'>Consultancy Fees</th>
    </tr>
  </thead>
  <tbody>";

        // while ($row=mysqli_fetch_array($result)){
                $username = $row['username'];
      $password = $row['password'];
      $email = $row['email'];
      $docFees = $row['docFees'];
      echo "<tr>
        <td>$username</td>
        <td>$password</td>
        <td>$email</td>
        <td>$docFees</td>
      </tr>";
        // }
```

```
        echo "</tbody></table><center><a href='admin-panel1.php' class='btn btn-light'>Back to dashboard</a></div></center></div></div></div>";
}
  }


?>
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/popper.min.js" integrity="sha384-b/U6ypiBEHpOf/4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4" crossorigin="anonymous"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/bootstrap.min.js" integrity="sha384-h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RDIqNm1" crossorigin="anonymous"></script>
</body>
</html>
```

Admin panel

```
<!DOCTYPE html>
<?php
$con=mysqli_connect("localhost","root","","myhmsdb");

include('newfunc.php');

if(isset($_POST['docsub']))
{
  $doctor=$_POST['doctor'];
  $dpassword=$_POST['dpassword'];
  $demail=$_POST['demail'];
  $spec=$_POST['special'];
  $docFees=$_POST['docFees'];
  $query="insert into doctb(username,password,email,spec,docFees)values('$doctor','$dpassword','$demail','$spec','$docFees')";
  $result=mysqli_query($con,$query);
```

```
  if($result)
    {
      echo "<script>alert('Doctor added successfully!');</script>";
  }
}


if(isset($_POST['docsub1']))
{
  $demail=$_POST['demail'];
  $query="delete from doctb where email='$demail';";
  $result=mysqli_query($con,$query);
  if($result)
    {
      echo "<script>alert('Doctor removed successfully!');</script>";
  }
  else{
    echo "<script>alert('Unable to delete!');</script>";
  }
}


?>
<html lang="en">
  <head>


    <!-- Required meta tags -->
    <meta charset="utf-8">
    <link rel="shortcut icon" type="image/x-icon" href="images/favicon.png" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no">
    <link rel="stylesheet" type="text/css" href="font-awesome-4.7.0/css/font-
awesome.min.css">
    <link rel="stylesheet" href="style.css">
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="vendor/fontawesome/css/font-awesome.min.css">
    <link href="https://fonts.googleapis.com/css?
family=IBM+Plex+Sans&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-
beta/css/bootstrap.min.css" integrity="sha384-/Y6pD6FV/
```

```
Vv2HJnA6t+vslU6fwYXjCFtcEpHbNJ0lyAFsXTsjBbfaDjzALeQsN6M"
crossorigin="anonymous">
    <nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-top">

     <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.3.1/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/
iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
 <a class="navbar-brand" href="#"><i class="fa fa-user-plus" aria-
hidden="true"></i> Global Hospital </a>
 <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
  <span class="navbar-toggler-icon"></span>
 </button>

 <script >
  var check = function() {
 if (document.getElementById('dpassword').value ==
  document.getElementById('cdpassword').value) {
  document.getElementById('message').style.color = '#5dd05d';
  document.getElementById('message').innerHTML = 'Matched';
 } else {
  document.getElementById('message').style.color = '#f55252';
  document.getElementById('message').innerHTML = 'Not Matching';
 }
}

  function alphaOnly(event) {
 var key = event.keyCode;
 return ((key >= 65 && key <= 90) || key == 8 || key == 32);
};
 </script>

 <style >
  .bg-primary {
  background: -webkit-linear-gradient(left, #3931af, #00c6ff);
}

.col-md-4{
 max-width:20% !important;
```

```
}

.list-group-item.active {
    z-index: 2;
    color: #fff;
    background-color: #342ac1;
    border-color: #007bff;
}
.text-primary {
    color: #342ac1!important;
}

#cpass {
  display: -webkit-box;
}

#list-app{
  font-size:15px;
}

.btn-primary{
  background-color: #3c50c1;
  border-color: #3c50c1;
}
  </style>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item">
       <a class="nav-link" href="logout1.php"><i class="fa fa-sign-out" aria-
hidden="true"></i>Logout</a>
     </li>
      <li class="nav-item">
       <a class="nav-link" href="#"></a>
     </li>
   </ul>
  </div>
</nav>
  </head>
  <style type="text/css">
    button:hover{cursor:pointer;}
```

```
   #inputbtn:hover{cursor:pointer;}
  </style>
  <body style="padding-top:50px;">
   <div class="container-fluid" style="margin-top:50px;">
    <h3 style = "margin-left: 40%; padding-bottom: 20px;font-family: 'IBM Plex Sans', sans-serif;"> WELCOME RECEPTIONIST </h3>
    <div class="row">
  <div class="col-md-4" style="max-width:25%;margin-top: 3%;">
    <div class="list-group" id="list-tab" role="tablist">
      <a class="list-group-item list-group-item-action active" id="list-dash-list" data-toggle="list" href="#list-dash" role="tab" aria-controls="home">Dashboard</a>
      <a class="list-group-item list-group-item-action" href="#list-doc" id="list-doc-list"  role="tab"    aria-controls="home" data-toggle="list">Doctor List</a>
      <a class="list-group-item list-group-item-action" href="#list-pat" id="list-pat-list"  role="tab" data-toggle="list" aria-controls="home">Patient List</a>
      <a class="list-group-item list-group-item-action" href="#list-app" id="list-app-list"  role="tab" data-toggle="list" aria-controls="home">Appointment Details</ a>
      <a class="list-group-item list-group-item-action" href="#list-pres" id="list-pres-list"  role="tab" data-toggle="list" aria-controls="home">Prescription List</ a>
      <a class="list-group-item list-group-item-action" href="#list-settings" id="list-adoc-list"  role="tab" data-toggle="list" aria-controls="home">Add Doctor</a>
      <a class="list-group-item list-group-item-action" href="#list-settings1" id="list-ddoc-list"  role="tab" data-toggle="list" aria-controls="home">Delete Doctor</a>
      <a class="list-group-item list-group-item-action" href="#list-mes" id="list-mes-list"  role="tab" data-toggle="list" aria-controls="home">Queries</a>

    </div><br>
  </div>
  <div class="col-md-8" style="margin-top: 3%;">
    <div class="tab-content" id="nav-tabContent" style="width: 950px;">



      <div class="tab-pane fade show active" id="list-dash" role="tabpanel" aria-labelledby="list-dash-list">
        <div class="container-fluid container-fullw bg-white" >
            <div class="row">
             <div class="col-sm-4">
               <div class="panel panel-white no-radius text-center">
```

```
            <div class="panel-body">
              <span class="fa-stack fa-2x"> <i class="fa fa-square fa-stack-2x text-primary"></i> <i class="fa fa-users fa-stack-1x fa-inverse"></i> </span>
              <h4 class="StepTitle" style="margin-top: 5%;">Doctor List</h4>
              <script>
                function clickDiv(id) {
                  document.querySelector(id).click();
                }
              </script>
              <p class="links cl-effect-1">
                <a href="#list-doc" onclick="clickDiv('#list-doc-list')">
                  View Doctors
                </a>
              </p>
            </div>
          </div>
        </div>

        <div class="col-sm-4" style="left: -3%">
          <div class="panel panel-white no-radius text-center">
            <div class="panel-body" >
              <span class="fa-stack fa-2x"> <i class="fa fa-square fa-stack-2x text-primary"></i> <i class="fa fa-users fa-stack-1x fa-inverse"></i> </span>
              <h4 class="StepTitle" style="margin-top: 5%;">Patient List</h4>

              <p class="cl-effect-1">
                <a href="#app-hist" onclick="clickDiv('#list-pat-list')">
                  View Patients
                </a>
              </p>
            </div>
          </div>
        </div>


        <div class="col-sm-4">
          <div class="panel panel-white no-radius text-center">
            <div class="panel-body" >
              <span class="fa-stack fa-2x"> <i class="fa fa-square fa-stack-2x text-primary"></i> <i class="fa fa-paperclip fa-stack-1x fa-inverse"></i> </span>
              <h4 class="StepTitle" style="margin-top: 5%;">Appointment
```

```
Details</h4>

                <p class="cl-effect-1">
                  <a href="#app-hist" onclick="clickDiv('#list-app-list')">
                    View Appointments
                  </a>
                </p>
              </div>
            </div>
          </div>
          </div>

          <div class="row">
          <div class="col-sm-4" style="left: 13%;margin-top: 5%;">
            <div class="panel panel-white no-radius text-center">
              <div class="panel-body" >
                <span class="fa-stack fa-2x"> <i class="fa fa-square fa-stack-2x text-
primary"></i> <i class="fa fa-list-ul fa-stack-1x fa-inverse"></i> </span>
                <h4 class="StepTitle" style="margin-top: 5%;">Prescription List</
h4>

                <p class="cl-effect-1">
                  <a href="#list-pres" onclick="clickDiv('#list-pres-list')">
                    View Prescriptions
                  </a>
                </p>
              </div>
            </div>
          </div>


          <div class="col-sm-4" style="left: 18%;margin-top: 5%">
            <div class="panel panel-white no-radius text-center">
              <div class="panel-body" >
                <span class="fa-stack fa-2x"> <i class="fa fa-square fa-stack-2x text-
primary"></i> <i class="fa fa-plus fa-stack-1x fa-inverse"></i> </span>
                <h4 class="StepTitle" style="margin-top: 5%;">Manage Doctors</
h4>

                <p class="cl-effect-1">
                  <a href="#app-hist" onclick="clickDiv('#list-adoc-list')">Add
```

```
Doctors</a>
                 |
                <a href="#app-hist" onclick="clickDiv('#list-ddoc-list')">
                  Delete Doctors
                </a>
              </p>
            </div>
          </div>
        </div>
        </div>




      </div>
    </div>




    <div class="tab-pane fade" id="list-doc" role="tabpanel" aria-labelledby="list-home-list">


        <div class="col-md-8">
    <form class="form-group" action="doctorsearch.php" method="post">
      <div class="row">
      <div class="col-md-10"><input type="text" name="doctor_contact" placeholder="Enter Email ID" class = "form-control"></div>
       <div class="col-md-2"><input type="submit" name="doctor_search_submit" class="btn btn-primary" value="Search"></div></div>
    </form>
   </div>
        <table class="table table-hover">
          <thead>
            <tr>
```

```
            <th scope="col">Doctor Name</th>
            <th scope="col">Specialization</th>
            <th scope="col">Email</th>
            <th scope="col">Password</th>
            <th scope="col">Fees</th>
          </tr>
        </thead>
        <tbody>
          <?php
            $con=mysqli_connect("localhost","root","","myhmsdb");
            global $con;
            $query = "select * from doctb";
            $result = mysqli_query($con,$query);
            while ($row = mysqli_fetch_array($result)){
              $username = $row['username'];
              $spec = $row['spec'];
              $email = $row['email'];
              $password = $row['password'];
              $docFees = $row['docFees'];

              echo "<tr>
                <td>$username</td>
                <td>$spec</td>
                <td>$email</td>
                <td>$password</td>
                <td>$docFees</td>
              </tr>";
            }

          ?>
        </tbody>
      </table>
    <br>
  </div>


  <div class="tab-pane fade" id="list-pat" role="tabpanel" aria-labelledby="list-pat-list">

    <div class="col-md-8">
  <form class="form-group" action="patientsearch.php" method="post">
```

```
      <div class="row">
      <div class="col-md-10"><input type="text" name="patient_contact"
placeholder="Enter Contact" class = "form-control"></div>
      <div class="col-md-2"><input type="submit" name="patient_search_submit"
class="btn btn-primary" value="Search"></div></div>
    </form>
   </div>

          <table class="table table-hover">
           <thead>
            <tr>
            <th scope="col">Patient ID</th>
             <th scope="col">First Name</th>
             <th scope="col">Last Name</th>
             <th scope="col">Gender</th>
             <th scope="col">Email</th>
             <th scope="col">Contact</th>
             <th scope="col">Password</th>
            </tr>
           </thead>
           <tbody>
            <?php
             $con=mysqli_connect("localhost","root","","myhmsdb");
             global $con;
             $query = "select * from patreg";
             $result = mysqli_query($con,$query);
             while ($row = mysqli_fetch_array($result)){
              $pid = $row['pid'];
              $fname = $row['fname'];
              $lname = $row['lname'];
              $gender = $row['gender'];
              $email = $row['email'];
              $contact = $row['contact'];
              $password = $row['password'];

              echo "<tr>
               <td>$pid</td>
               <td>$fname</td>
               <td>$lname</td>
               <td>$gender</td>
               <td>$email</td>
```

```
                <td>$contact</td>
                <td>$password</td>
               </tr>";
              }

             ?>
            </tbody>
           </table>
      <br>
     </div>


    <div class="tab-pane fade" id="list-pres" role="tabpanel" aria-
labelledby="list-pres-list">

     <div class="col-md-8">

      <div class="row">



          <table class="table table-hover">
           <thead>
            <tr>
            <th scope="col">Doctor</th>
             <th scope="col">Patient ID</th>
             <th scope="col">Appointment ID</th>
             <th scope="col">First Name</th>
             <th scope="col">Last Name</th>
             <th scope="col">Appointment Date</th>
             <th scope="col">Appointment Time</th>
             <th scope="col">Disease</th>
             <th scope="col">Allergy</th>
             <th scope="col">Prescription</th>
            </tr>
           </thead>
           <tbody>
            <?php
             $con=mysqli_connect("localhost","root","","myhmsdb");
             global $con;
             $query = "select * from prestb";
```

```
                $result = mysqli_query($con,$query);
                while ($row = mysqli_fetch_array($result)){
                  $doctor = $row['doctor'];
                  $pid = $row['pid'];
                  $ID = $row['ID'];
                  $fname = $row['fname'];
                  $lname = $row['lname'];
                  $appdate = $row['appdate'];
                  $apptime = $row['apptime'];
                  $disease = $row['disease'];
                  $allergy = $row['allergy'];
                  $pres = $row['prescription'];


                  echo "<tr>
                    <td>$doctor</td>
                    <td>$pid</td>
                    <td>$ID</td>
                    <td>$fname</td>
                    <td>$lname</td>
                    <td>$appdate</td>
                    <td>$apptime</td>
                    <td>$disease</td>
                    <td>$allergy</td>
                    <td>$pres</td>
                  </tr>";
                }

              ?>
            </tbody>
          </table>
      <br>
    </div>
    </div>
    </div>




    <div class="tab-pane fade" id="list-app" role="tabpanel" aria-labelledby="list-
pat-list">
```

```
      <div class="col-md-8">
    <form class="form-group" action="appsearch.php" method="post">
      <div class="row">
      <div class="col-md-10"><input type="text" name="app_contact"
placeholder="Enter Contact" class = "form-control"></div>
      <div class="col-md-2"><input type="submit" name="app_search_submit"
class="btn btn-primary" value="Search"></div></div>
    </form>
  </div>

          <table class="table table-hover">
            <thead>
              <tr>
              <th scope="col">Appointment ID</th>
              <th scope="col">Patient ID</th>
                <th scope="col">First Name</th>
                <th scope="col">Last Name</th>
                <th scope="col">Gender</th>
                <th scope="col">Email</th>
                <th scope="col">Contact</th>
                <th scope="col">Doctor Name</th>
                <th scope="col">Consultancy Fees</th>
                <th scope="col">Appointment Date</th>
                <th scope="col">Appointment Time</th>
                <th scope="col">Appointment Status</th>
              </tr>
            </thead>
            <tbody>
              <?php

                $con=mysqli_connect("localhost","root","","myhmsdb");
                global $con;

                $query = "select * from appointmenttb;";
                $result = mysqli_query($con,$query);
                while ($row = mysqli_fetch_array($result)){
              ?>
                <tr>
                  <td><?php echo $row['ID'];?></td>
                  <td><?php echo $row['pid'];?></td>
```

```
                <td><?php echo $row['fname'];?></td>
                <td><?php echo $row['lname'];?></td>
                <td><?php echo $row['gender'];?></td>
                <td><?php echo $row['email'];?></td>
                <td><?php echo $row['contact'];?></td>
                <td><?php echo $row['doctor'];?></td>
                <td><?php echo $row['docFees'];?></td>
                <td><?php echo $row['appdate'];?></td>
                <td><?php echo $row['apptime'];?></td>
                <td>
              <?php if(($row['userStatus']==1) && ($row['doctorStatus']==1))
              {
                echo "Active";
              }
              if(($row['userStatus']==0) && ($row['doctorStatus']==1))
              {
                echo "Cancelled by Patient";
              }

              if(($row['userStatus']==1) && ($row['doctorStatus']==0))
              {
                echo "Cancelled by Doctor";
              }
                 ?></td>
                </tr>
              <?php } ?>
            </tbody>
          </table>
      <br>
    </div>

<div class="tab-pane fade" id="list-messages" role="tabpanel" aria-
labelledby="list-messages-list">...</div>

    <div class="tab-pane fade" id="list-settings" role="tabpanel" aria-
labelledby="list-settings-list">
      <form class="form-group" method="post" action="admin-panel1.php">
        <div class="row">
              <div class="col-md-4"><label>Doctor Name:</label></div>
              <div class="col-md-8"><input type="text" class="form-control"
name="doctor" onkeydown="return alphaOnly(event);" required></div><br><br>
```

```
            <div class="col-md-4"><label>Specialization:</label></div>
            <div class="col-md-8">
             <select name="special" class="form-control" id="special"
required="required">
               <option value="head" name="spec" disabled selected>Select
Specialization</option>
               <option value="General" name="spec">General</option>
               <option value="Cardiologist" name="spec">Cardiologist</option>
               <option value="Neurologist" name="spec">Neurologist</option>
               <option value="Pediatrician" name="spec">Pediatrician</option>
              </select>
              </div><br><br>
            <div class="col-md-4"><label>Email ID:</label></div>
            <div class="col-md-8"><input type="email"  class="form-control"
name="demail" required></div><br><br>
            <div class="col-md-4"><label>Password:</label></div>
            <div class="col-md-8"><input type="password" class="form-control"
onkeyup='check();' name="dpassword" id="dpassword"  required></
div><br><br>
            <div class="col-md-4"><label>Confirm Password:</label></div>
            <div class="col-md-8"  id='cpass'><input type="password" class="form-
control" onkeyup='check();' name="cdpassword" id="cdpassword"
required>   <span id='message'></span> </div><br><br>


            <div class="col-md-4"><label>Consultancy Fees:</label></div>
            <div class="col-md-8"><input type="text" class="form-control"
name="docFees" required></div><br><br>
          </div>
      <input type="submit" name="docsub" value="Add Doctor" class="btn btn-
primary">
     </form>
    </div>

   <div class="tab-pane fade" id="list-settings1" role="tabpanel" aria-
labelledby="list-settings1-list">
     <form class="form-group" method="post" action="admin-panel1.php">
      <div class="row">

            <div class="col-md-4"><label>Email ID:</label></div>
            <div class="col-md-8"><input type="email"  class="form-control"
```

```
name="demail" required></div><br><br>

            </div>
        <input type="submit" name="docsub1" value="Delete Doctor" class="btn
btn-primary" onclick="confirm('do you really want to delete?')">
      </form>
    </div>


     <div class="tab-pane fade" id="list-attend" role="tabpanel" aria-
labelledby="list-attend-list">...</div>

     <div class="tab-pane fade" id="list-mes" role="tabpanel" aria-
labelledby="list-mes-list">

       <div class="col-md-8">
    <form class="form-group" action="messearch.php" method="post">
      <div class="row">
      <div class="col-md-10"><input type="text" name="mes_contact"
placeholder="Enter Contact" class = "form-control"></div>
      <div class="col-md-2"><input type="submit" name="mes_search_submit"
class="btn btn-primary" value="Search"></div></div>
    </form>
   </div>

          <table class="table table-hover">
            <thead>
              <tr>
                <th scope="col">User Name</th>
                <th scope="col">Email</th>
                <th scope="col">Contact</th>
                <th scope="col">Message</th>
              </tr>
            </thead>
            <tbody>
              <?php

                $con=mysqli_connect("localhost","root","","myhmsdb");
                global $con;

                $query = "select * from contact;";
```

```
                $result = mysqli_query($con,$query);
                while ($row = mysqli_fetch_array($result)){

                  #$fname = $row['fname'];
                  #$lname = $row['lname'];
                  #$email = $row['email'];
                  #$contact = $row['contact'];
                ?>
                  <tr>
                    <td><?php echo $row['name'];?></td>
                    <td><?php echo $row['email'];?></td>
                    <td><?php echo $row['contact'];?></td>
                    <td><?php echo $row['message'];?></td>
                  </tr>
                <?php } ?>
              </tbody>
            </table>
        <br>
      </div>



    </div>
  </div>
</div>
  </div>
   <!-- Optional JavaScript -->
   <!-- jQuery first, then Popper.js, then Bootstrap JS -->
   <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/
GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/
popper.min.js" integrity="sha384-b/U6ypiBEHpOf/
4+1nzFpr53nxSS+GLCkfwBdFNTxtclqqenISfwAzpKaMNFNmj4"
crossorigin="anonymous"></script>
   <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta/js/
bootstrap.min.js" integrity="sha384-
h0AbiXch4ZDo7tp9hKZ4TsHbi047NrKGLO3SEJAg45jXxnGIfYzk4Si90RDIqNm1
" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/limonte-sweetalert2/6.10.1/
sweetalert2.all.min.js"></script>
```

```
  </body>
</html>
```

CHAPTER 6

SCREENSHOTS

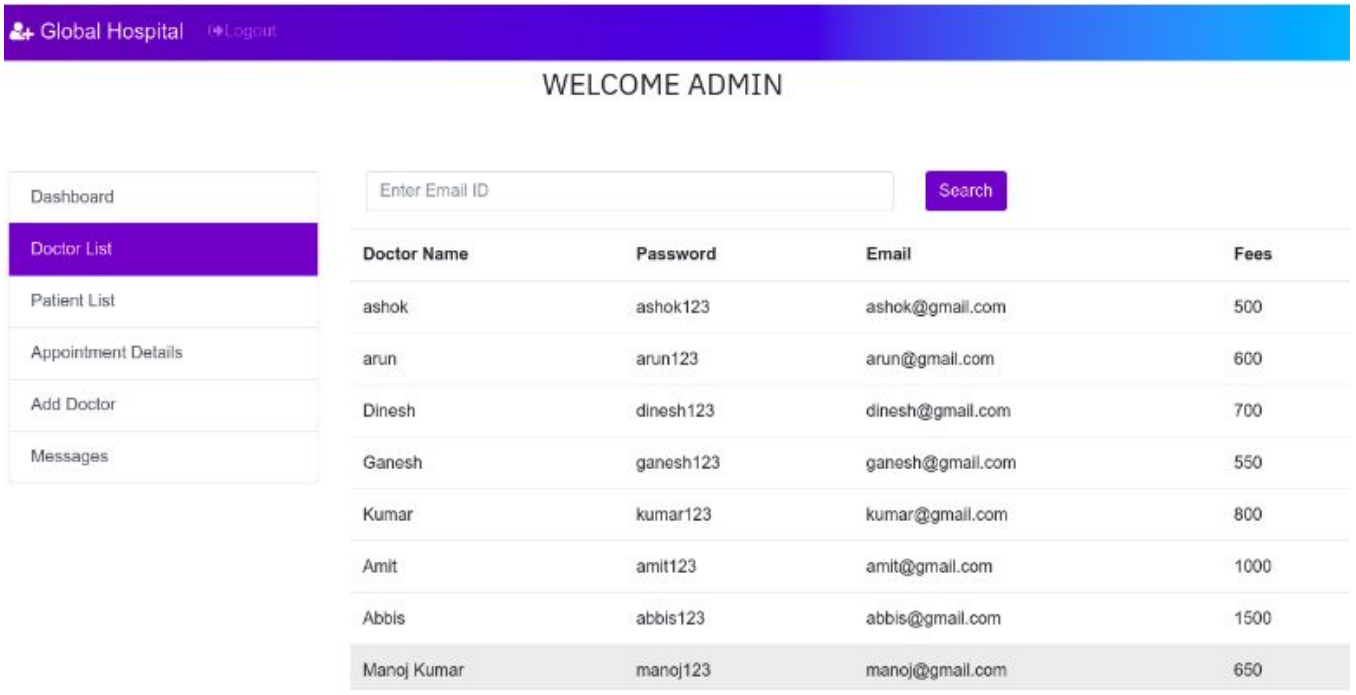


Fig 1.19

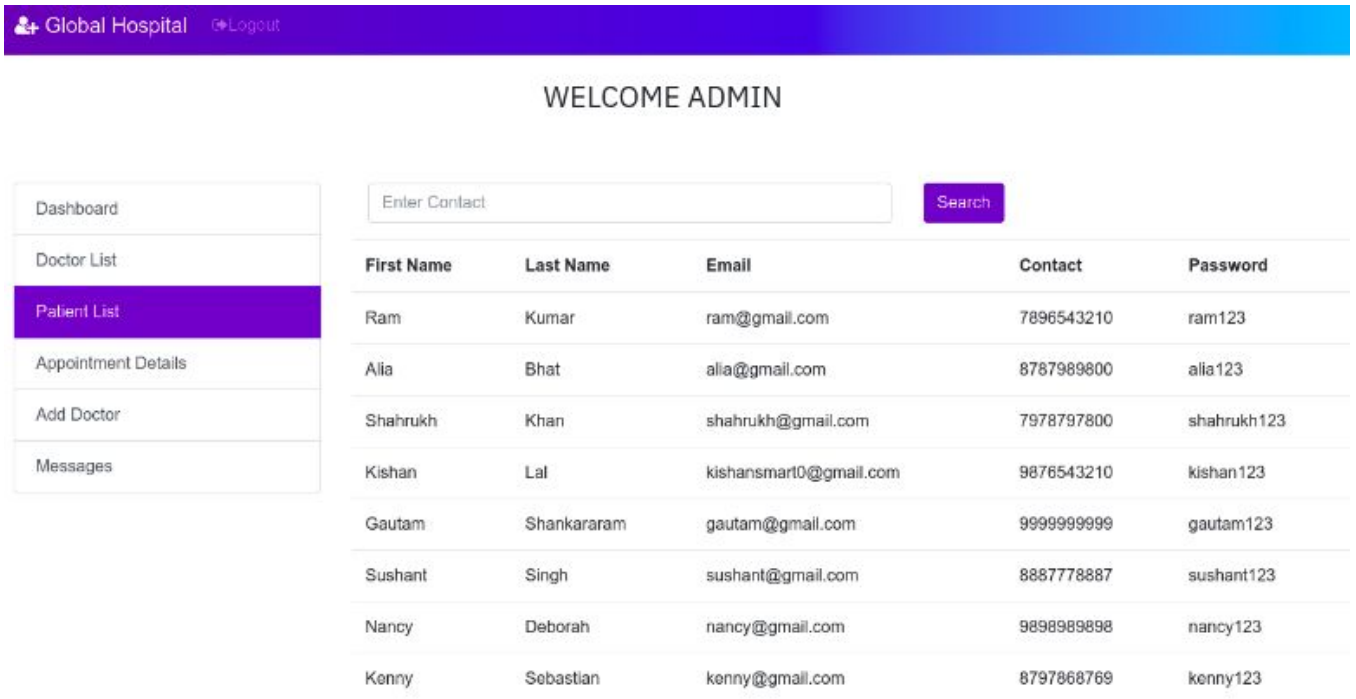


Fig 1.15

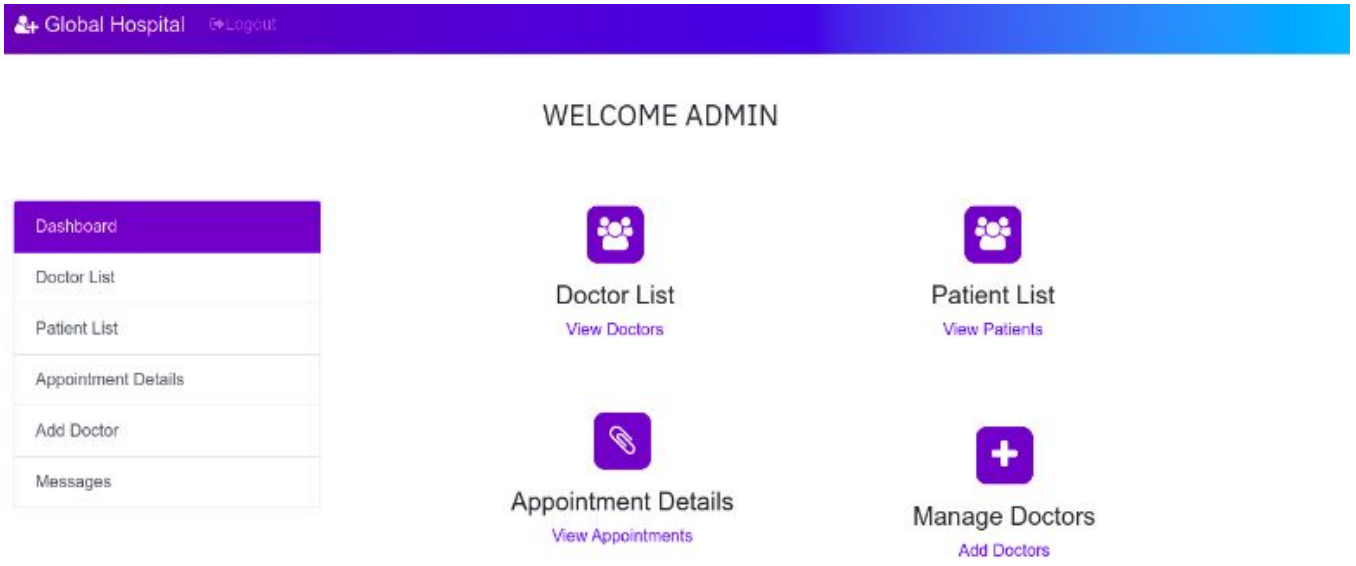


Fig 1.14

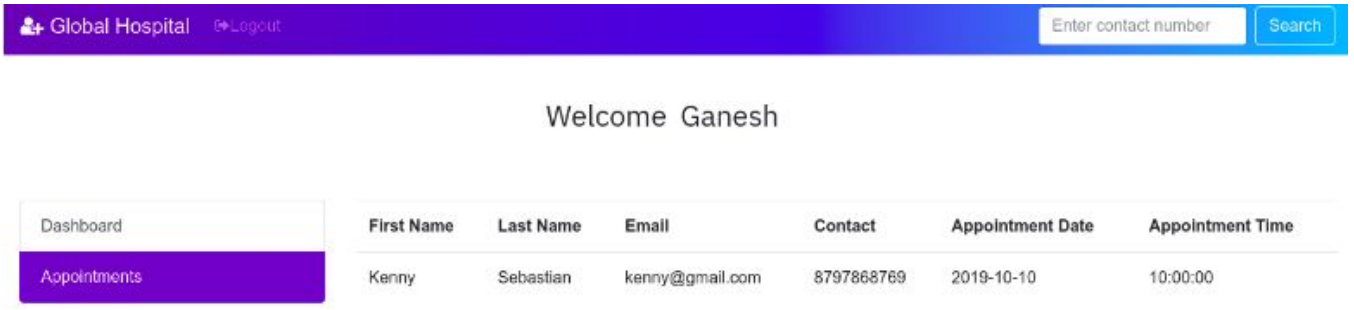


Fig 1.12

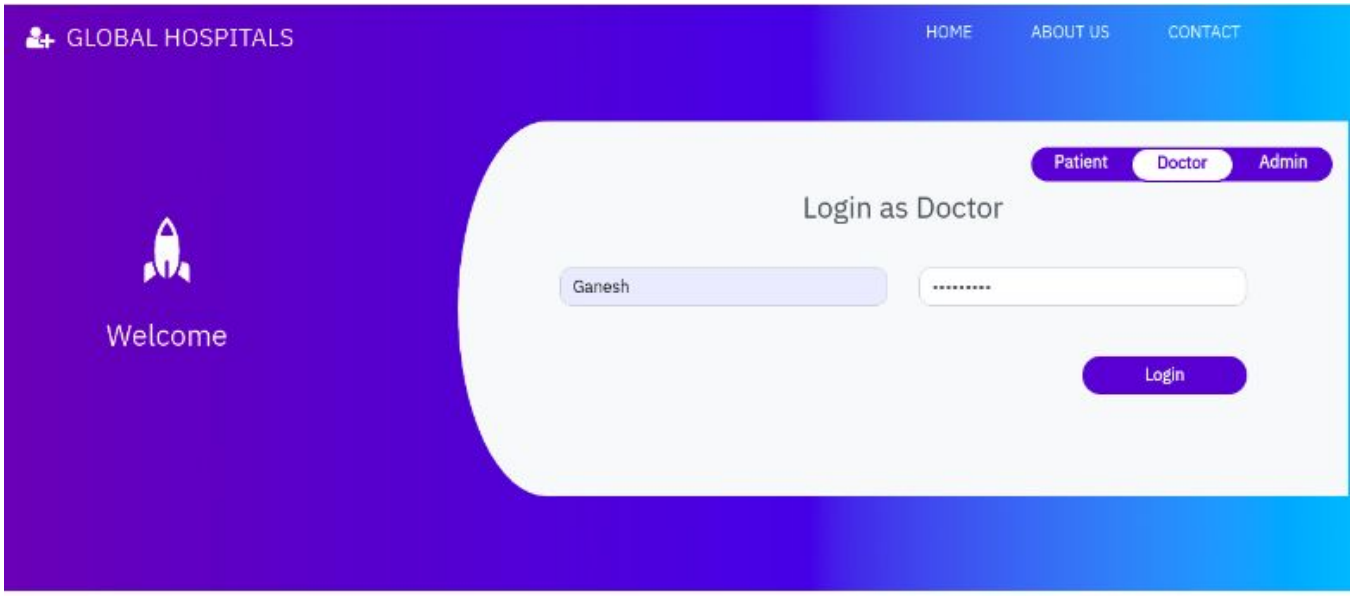


Fig 1.10

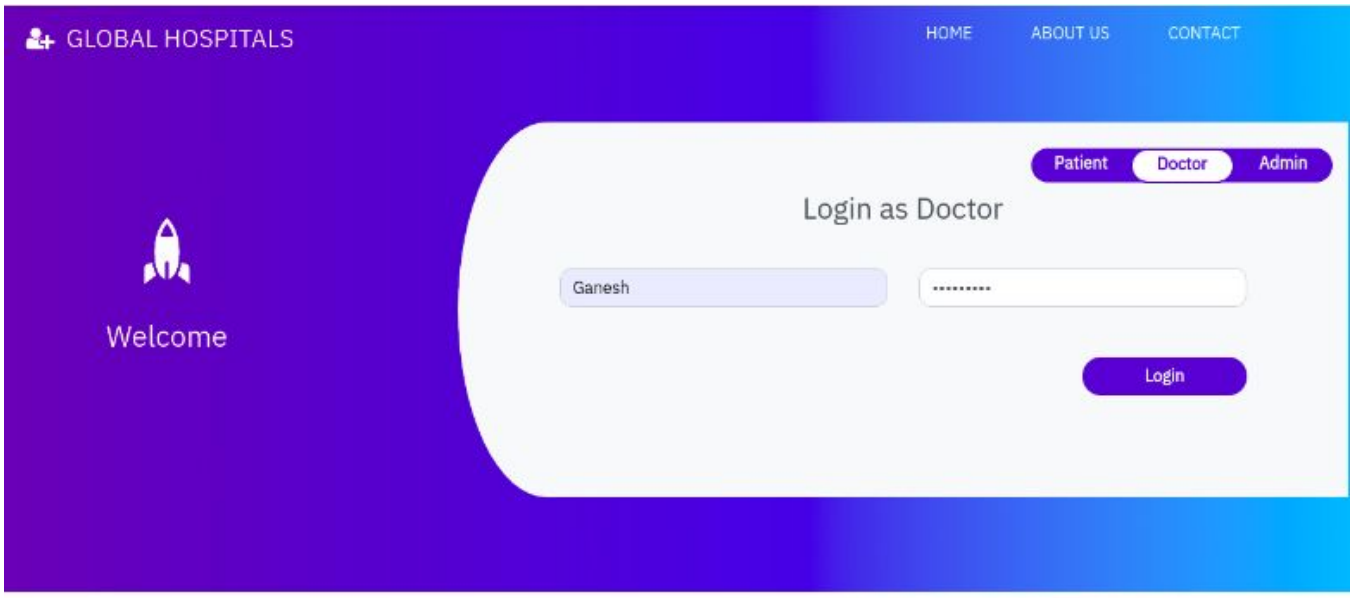

GLOBAL HOSPITALS
HOME
ABOUT US
CONTACT
Welcome
Patient
Doctor
Admin
Login as Doctor
Ganesh
Login

Fig 1.10

CONCLUSION

In conclusion, a Hospital Management System (HMS) streamlines and enhances the administrative, clinical, and operational functions of a hospital. By centralizing patient information, managing staff schedules, automating billing, and maintaining records, the system improves efficiency, reduces errors, and enables better patient care. A well-designed HMS also provides real-time data, aiding in decision-making for healthcare providers and administrators. Ultimately, implementing an HMS contributes to a smoother workflow, improved patient satisfaction, and an organized approach to managing healthcare facilities, making it an invaluable asset to any hospital or clinic.