ABSTRACT

Hospital Management System is an organized computerized system designed and programmed to deal with day to day operations and management of the hospital activities.

The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy and labs. It also maintains hospital information such as ward id, doctors in charge and department administering.

The major problem for the patient nowadays to get report after consultation , many hospital managing reports in their system but it's not available to the patient when he / she is outside.In this project we are going to provide the extra facility to store the report in the database and make available from anywhere in the world.

Hospital management systems play a vital role in streamlining healthcare operations and improving patient care. This abstract provides an overview of a comprehensive Hospital Management System (HMS) that aims to enhance efficiency and optimize processes within healthcare institutions.

The Hospital Management System encompasses various modules that cater to different aspects of hospital operations, including patient registration, appointment scheduling, electronic medical records (EMR), inventory management, billing and accounting, and reporting. These modules are designed to integrate seamlessly, facilitating a smooth flow of information and enabling healthcare providers to deliver timely and effective services.

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CHAPTER 1

INTRODUCTION

1.1 Overview:

The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the currentstatus of each room. User can search availability of a doctor and the details of a patient using the id.

The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. Hospital Management System is designed for multispeciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to- end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow.

Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the areas of clinical process analysisand activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes.

1.2 PROBLEM INTRODUCTION:

Lack of immediate retrievals: -

The information is very difficult to retrieve and to find particular information like- E.g. - To find out about the patient's history, the user has to go through various registers. This results in in convenience and wastage of time.

Lack of immediate information storage: -

The information generated by various transactions takes time and efforts to be stored at right place.

Lack of prompt updating: -

Various changes to information like patient details or immunization details of child are difficult to make as paper work is involved.

Error prone manual calculation: -

Manual calculations are error prone and take a lot of time this may result in incorrect information. For example calculation of patient's bill based on various treatments.

Preparation of accurate and prompt reports: -

This becomes a difficult task as information is difficult to collect from various register.

Goals
1-User friendly
2-Simple fast
3-Low cost and effective
4-It deals with the collection of patient's information
5- Diagnosis

Objective:-

1) Define hospital
2) Recording information about the Patients that come.
3) Generating bills.
4) Recording information related to diagnosis given to Patients.
5) Keeping record of the Immunization provided to children/patients.
6) Keeping information about various diseases and medicines available to cure them.

These are the various jobs that need to be done in a Hospital by the operational staff and Doctors. All these works are done on papers

CHAPTER 2

SYSTEM DESIGN

2.1 INTRODUCTION TO UML

UML Design

The Unified Modeling Language (UML) is a standard language for specifying, visualizing, constructing, and documenting the software system and its components. It is a graphical language , which provides a vocabulary and setof semantics and rules. The UML focuses on the conceptual and physical representation of the system. It captures the decisions and understandings about systems that must be constructed. It is used to understand, design, configure, maintain, and control information about the systems.

The UML is a language for:

- Visualizing
- Specifying
- Constructing
- Documenting

Visualizing

Through UML we see or visualize an existing system and ultimately we visualize how the system is going to be after implementation. Unless we think,we cannot implement. UML helps to visualize, how the components of the system communicate and interact with each other.

Specifying

Specifying means building, models that are precise, unambiguous and complete UML addresses the specification of all the important analysis design, implementation decisions that must be made in developing and deploying a software system.

Constructing

UML models can be directly connected to a variety of programming language through mapping a model from UML to a programming language like JAVA or C++ or VB. Forward Engineering and Reverse Engineering is possible through UML.

Documenting

The Deliverables of a project apart from coding are some Artifacts, which are critical in controlling, measuring and communicating about a system during its developing requirements, architecture, desire, source code, etc...

2.2 UML Approach

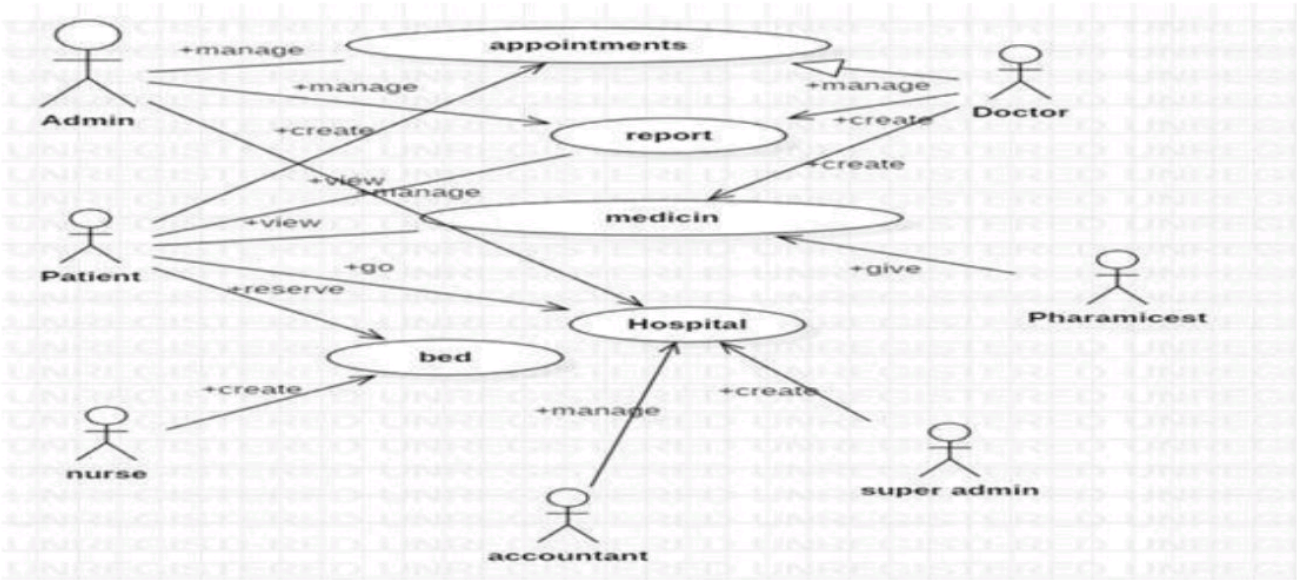
UML Diagram

A diagram is the graphical presentation of a set of elements, most often renderedas a connected graph of vertices and arcs . you draw diagram to visualize a system from different perspective, so a diagram is a projection into a system. Forall but most trivial systems, a diagram represents an elided view of the elements that make up a system. The same element may appear in all diagrams, only a fewdiagrams , or in no diagrams at all. In theory, a diagram may contain any combination of things and relationships. In practice, however, a small number ofcommon combinations arise, which are consistent with the five most useful views that comprise the architecture of a software-intensive system. For this reason, the UML includes nine such diagrams:

1. Class diagram
2. Object diagram
3. Use case diagram
4. Sequence diagram
5. Collaboration diagram
6. State chart diagram
7. Activity diagram
8. Component diagram
9. Deployment diagram

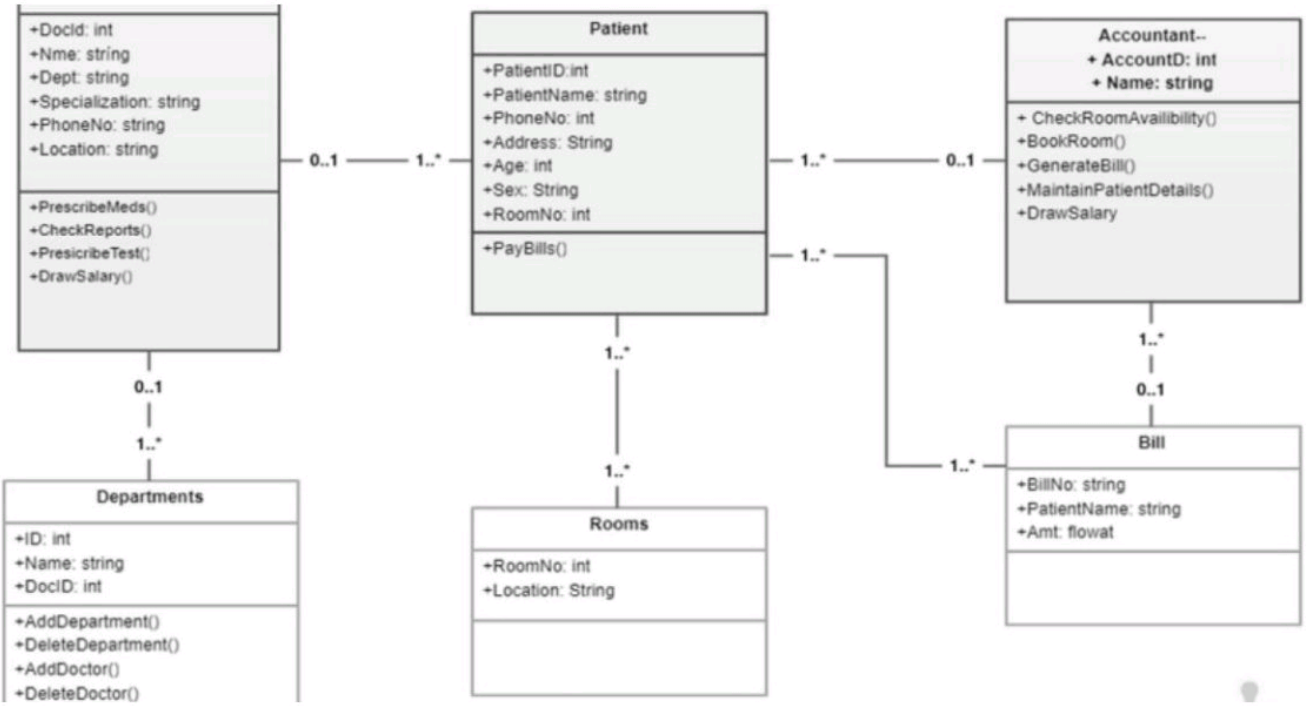
2.3 USECASE DIAGRAM:

A usecase diagram in the Unified Modeling Language(UML) is atype of behavioral diagram defined by and created from a use-case analysis.its purpose is to present a graphical overview of the functionality provided by a system in terms of actors,their goals(represented as use cases),and any dependencies between those use cases.



USECASE DIAGRAM

2.4 Class Diagram:

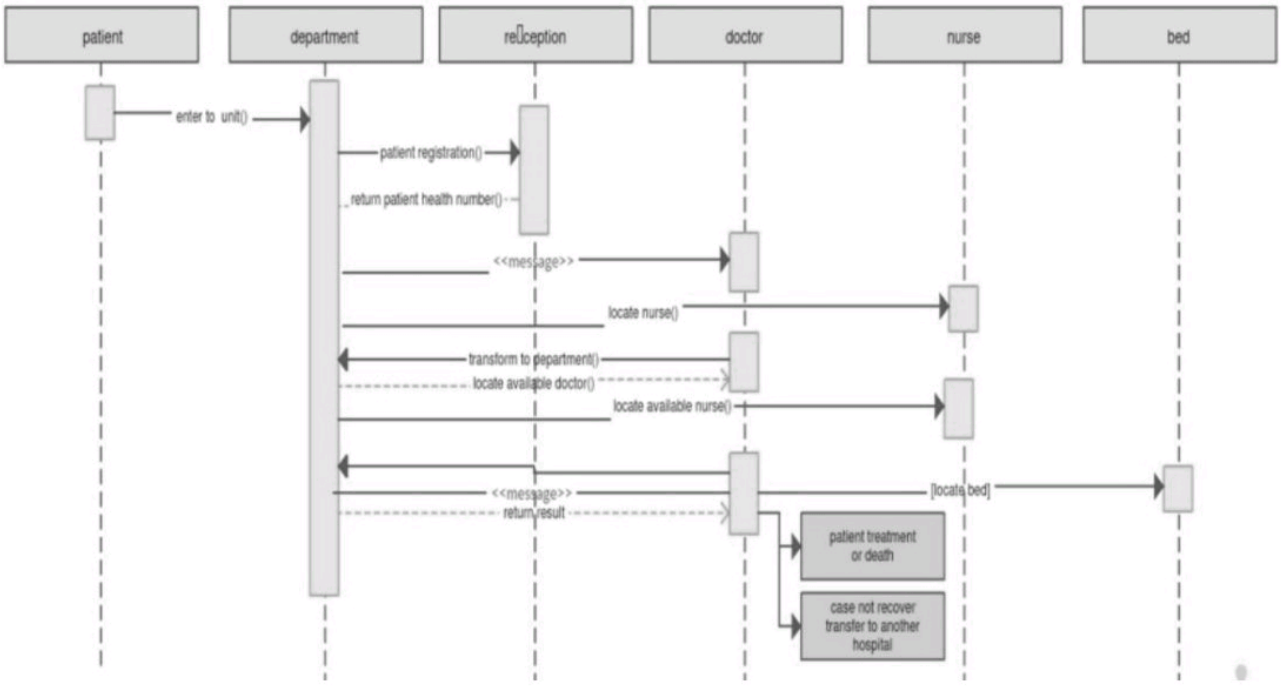


Class Diagram

A Class is a category or group of things that has similar attributes and common behavior. A Rectangle is the icon that represents the class it is divided into three areas. The upper most area contains the name, the middle; area contains the attributes and the lowest areas show the operations. Class diagrams provides the representation that developers work from. Class diagrams help on the analysis side, too.

2.5 Sequence diagram:

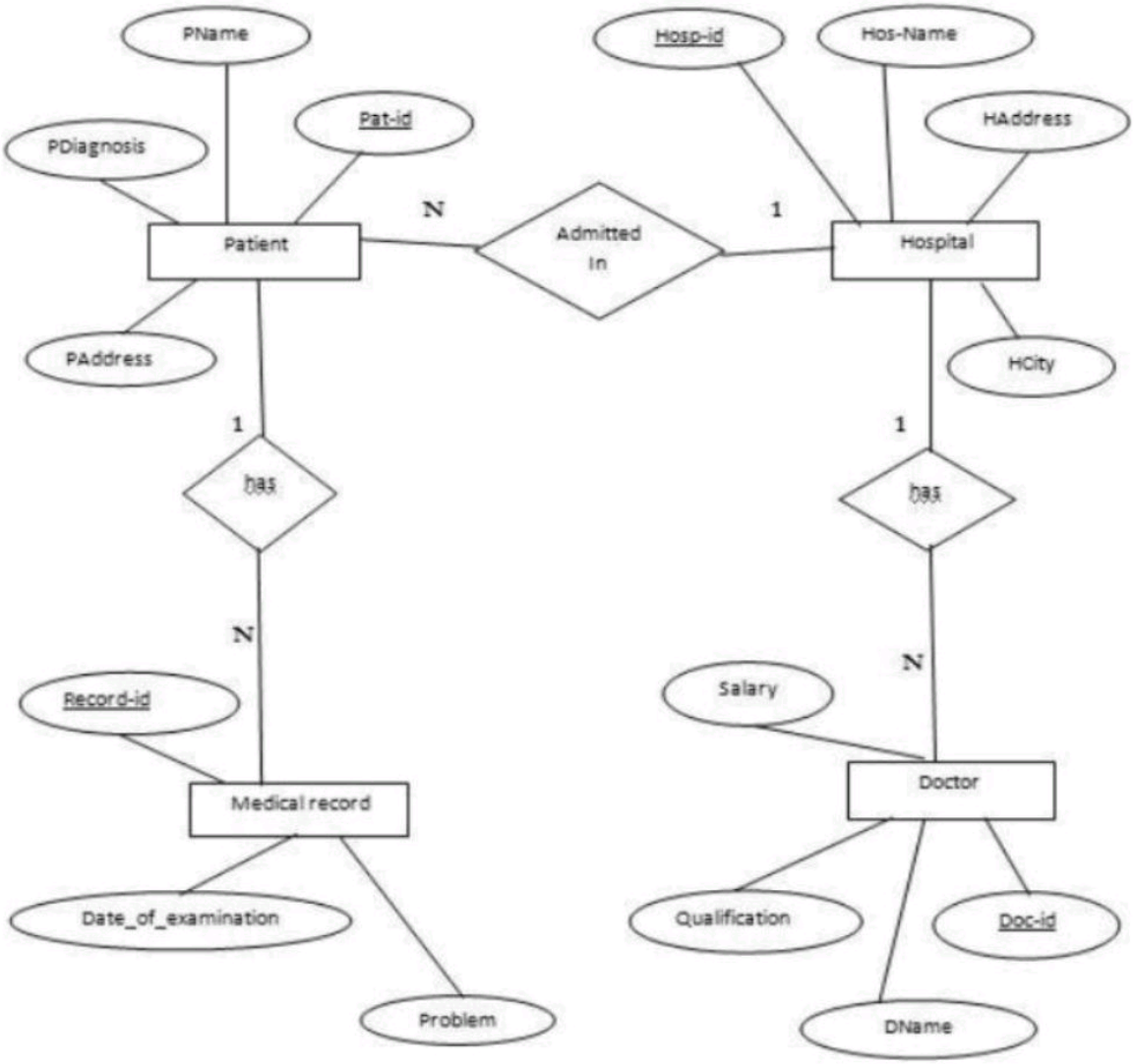
A **Sequence Diagram** is an interaction diagram that emphasis the time ordering of messages; a collaboration diagram is an interaction diagram that emphasizes the structural organization of the objects that send and receive messages. Sequence diagrams and collaboration diagrams are isomorphic, meaning that you can take one and transform it intothe other.



Sequence diagram

2.6 E-R Diagrams:

Database is absolutely an integral part of software system. To fully utilize ER Diagram in database engineering guarantee you to produce high quality database design to use in database creation, management and maintenance. An ER model also provides a means for communication.



E-R Diagrams

CHAPTER 3

ANALYSIS

3.1 EXISTING SYSTEM:

Hospitals currently use a manual system for the management and maintainance of critical information. The current system requires numerous paper forms, with data stores spread through out the hospital management infrastructure. Often information is incomplete or does not follow management standards. Forms are often lost in transit between departments requiring a comprehensive auditing process to ensure that no vital information is lost. Multiple copies of the same information exist in the hospital and may lead to inconsistencies in data in various data stores.

3.2 PROPOSED SYSTEM:

The Hospital Management System is designed for any hospital to replace their existing manual paper based system. The new system is to control the information of patients. Room availability, staff and operating room schedules and patient invoices. These services are to be provided in an efficient, cost effective manner, with the goal of reducing the time and resources currently required for such tasks .

3.3 FEASIBILITY STUDY:

The feasibility of the project is analysed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility .is study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for a the system is essential.

3.4 SOFTWARE SPECIFICATION:

HTML:

HTML or **Hypertext Markup Language** is the standard markup language used to create web pages.

HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like <html>). HTML tags most commonly come in pairs like <h1> and </h1>,

first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). Though not always necessary, it is best practice to append a slash to tags which are not paired with a closing tag.

HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

CASCADING STYLE SHEETS (CSS):

It is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web site and development pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content .

CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.

JAVASCRIPT:

JavaScript is a widely used programming language that is primarily used for creating interactive web pages and web applications. It is a high-level, interpreted language that is a was executed by web browsers. JavaScript allows developers to add dynamic behavior to their websites, such as responding to user actions, manipulating HTML elements, and making asynchronous requests to servers.

PHP:

WHAT IS PHP?

- PHP is an acronym for "PHP Hypertext Preprocessor"
- PHP is a widely-used, open source scripting language
- PHP scripts are executed on the server
- PHP costs nothing, it is free to download and use

WHAT IS PHP FILE?

- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code are executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"

WHAT CAN PHP DO?

- PHP can generate dynamic page content
- PHP can create, open, read, write, delete, and close files on the server
- PHP can collect form data
- PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can restrict users to access some pages on your website
- PHP can encrypt data

WHY PHP?

- PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all servers used today (Apache, IIS, etc.)
- PHP supports a wide range of databases
- PHP is free. Download it from the official PHP resource: www.php.net

CHAPTER 4

SOURCE CODE

Home page code:

```
<!Doctype Html>
<Html>
<Head>
<Title>
KPR HOSPITAL
</Title>

<style type=text/css>
*  {
margin: 0;
font-family: sans-serif;
padding: 0;
}
.head{
  position: relative;
  width: 100%;
  height: 100vh;
  background: #eff4fd;
}
nav
{
  display: flex;
  width: 84%;
  margin: auto;
  padding: 20px 0;
  align-items: center;
  justify-content: space-between;
}
nav ul li{
  display: inline-block;
  list-style: none;
  margin: 10px 20px;
}
nav ul li a{
  text-decoration: none;
  color: #000;
  font-weight: bold;


}
nav ul li a:hover{
  color: blueviolet;
}
<meta name="viewport" content="width=device-width, initial-scale=1">
* {box-sizing: border-box;}
body {font-family: Verdana, sans-serif}
```

```
.mySlides {display: none;}
img {vertical-align: middle;}


/* Slideshow container */
.slideshow-container {
  max-width: 750px;
  position: relative;
  margin-bottom: 20px;
  padding: 30px;

  }


/* Caption text */
.text {
  color: #f2f2f2;
  font-size: 15px;
  padding: 8px 12px;
  position: absolute;
  bottom: 8px;
  width: 100%;
  text-align: center;
}


/* Number text (1/3 etc) */
.numbertext {
  color: #f2f2f2;
  font-size: 12px;
  padding: 8px 12px;
  position: absolute;
  top: 0;
}


/* The dots/bullets/indicators */
.dot {
  height: 15px;
  width: 15px;
  margin: 0 2px;
  background-color: #bbb;
  border-radius: 50%;
  display: inline-block;
  transition: background-color 0.6s ease;
}


.active {
  background-color: #717171;
}
```

```
/* Fading animation */
.fade {
  animation-name: fade;
  animation-duration: 2s;
}



@keyframes fade {
  from {opacity: .4}
  to {opacity: 1}
}


/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
  .text {font-size: 11px}
}



</style>
</Head>
<Body >
  <marquee  STYLE="COLOR:red ;font-size:20px; background-color:yellow ">
     </marquee>
  <marquee STYLE="COLOR:rgb(221, 14, 14) ;font-size:20px;background-color:rgb(111, 192,
111) " BEHAVIOR="ALTERNATE" DIRECTION="RIGHT">WELCOME TO KPR HOSPITAL</marquee>


<div class="head">
<nav>
  <img src="N1.png"  class="logo" width="90" height="90">
<ul>
  <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>    </nav>




 <div class="slideshow-container" style="margin: auto;">
<div class="mySlides fade">
  <div class="numbertext"></div>
  <img src="h1.jpg" width="800" height="400">
  <div class="text"></div>
```

```
</div>


<div class="mySlides fade">
  <div class="numbertext"></div>
  <img src="h3.jpg" width="800" height="400" >
  <div class="text"></div>
</div>


<div class="mySlides fade">
  <div class="numbertext"></div>
  <img src="h4.jpg" width="800" height="400" >
  <div class="text"></div>
</div>


</div>
<br>


<div style="text-align:center">
  <span class="dot"></span>
  <span class="dot"></span>
  <span class="dot"></span>
</div>


<script>


let slideIndex = 0;
showSlides();


function showSlides() {
  let i;
  let slides = document.getElementsByClassName("mySlides");
  let dots = document.getElementsByClassName("dot");
  for (i = 0; i < slides.length; i++) {
    slides[i].style.display = "none";
  }
  slideIndex++;
  if (slideIndex > slides.length) {slideIndex = 1}
  for (i = 0; i < dots.length; i++) {
    dots[i].className = dots[i].className.replace(" active", "");
  }
  slides[slideIndex-1].style.display = "block";
  dots[slideIndex-1].className += " active";
  setTimeout(showSlides, 2000); // Change image every 2 seconds
}
```

```
</script>
</Body>
</Html>
```

Doctor page code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="aj.css">
  <style type=text/css>
*  {
margin: 0;
font-family: sans-serif;
padding: 0;
}


.head{
  position: relative;
  width: 100%;
  height: 100vh;
  background: #eff4fd;
}
nav
{
  display: flex;
  width: 84%;
  margin: auto;
  padding: 20px 0;
  align-items: center;
  justify-content: space-between;
}
nav ul li{
  display: inline-block;
  list-style: none;
  margin: 10px 20px;
}
nav ul li a{
  text-decoration: none;
  color: #000;
  font-weight: bold;


}
nav ul li a:hover{
  color: blueviolet;
}
.list{
  padding-left: 50px;
}
```

```
.info
{
  padding-left: 70px;
  line-height: 1.6;
}
.wrapper {
  padding-left: 220px;
  position: absolute;
  top: 53%;
  left: 25%;
  padding-top: 40px;
  transform: translate(-50%, -50%);
  width: 800px;
  height: 500px;
  display: flex;
  border-radius: 15px;
}


.wrapper .wrapper_left {
  width: 250px;
  padding-right: 280px;
  display: flex;
  align-items: center;
  border-top-left-radius: 10px;
  border-bottom-left-radius: 10px;


}


.wrapper .wrapper_left ul li {
  background: #313142;
  margin-bottom: 10px;
  border-radius: 3px;
  padding: 12px 25px;
  text-transform: uppercase;
  font-weight: 500;
  position: relative;
  overflow: hidden;
  width: 250px;
  letter-spacing: 2px;
  transition: all 0.4s ease;
  cursor: pointer;
}


.wrapper .wrapper_left ul li p {
  color: red;
  position: relative;
}
```

```
.wrapper .wrapper_left ul li:before {
  content: "";
  position: absolute;
  top: 0;
  left: 0;
  width: 5px;
  height: 70%;
  );
  border-radius: 5px;
  border-top-right-radius: 0;
  border-bottom-right-radius: 0;
  transition: all 0.4s ease;
}
</style>
</head>
<body>


<div class="head">
<nav>
<img src="N1.png"  class="logo" width="90" height="90">
<ul>
  <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>
</nav><br><br><br>
 <img src="c3.png" align="right" width="550" height="300" style="padding-right: 100px;">
<div class="wrapper">
  <div class="wrapper_left">
    <ul>
      <li data-li="am" class="active">
        <p><a href="docname.html" style="text-decoration: none;color:
white;">ALLERGISTS/IMMUNOLOGISTS</a></p>
      </li>
      <li data-li="ad" class = "active">
        <p><a href="docname1.html" style="text-decoration: none;color:
white;">ANESTHESIOLOGISTS</a></p>

      </li>

      <li data-li="cd" class = "active">
        <p><a href="docname2.html" style="text-decoration: none;color:
white;">CARDEOLIGISTS</a></p>
      </li>
      <li data-li="ss" class = "active">
        <p><a href="docname3.html" style="text-decoration: none;color:
white;">SURGEONS</a></p>
```

```
      </li>


      <li data-li="henry" class = "active">
        <p><a href="docname5.html" style="text-decoration:none; color:
white;">NEUROLOGISTS</a></p>
      </li>


    </ul>
    <div class = "wrapper_right">
      <img src="images.png" align="right" height="200" width="200" style="padding-left:
50px; padding-bottom: 50px;">
    </div>
  </div>
```

Doctor details code:

Allergists/ Immunologists:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="aj.css">
  <style type=text/css>
*  {
margin: 0;
font-family: sans-serif;
padding: 0;
}
.head{
  position: relative;
  width: 100%;
  height: 100vh;
  background: #eff4fd;
}
nav
{
  display: flex;
  width: 84%;
  margin: auto;
  padding: 20px 0;
  align-items: center;
  justify-content: space-between;
}
nav ul li{
  display: inline-block;
  list-style: none;
  margin: 10px 20px;
}
nav ul li a{
```

```
  text-decoration: none;
  color: #000;
  font-weight: bold;


}
nav ul li a:hover{
  color: blueviolet;
}
.list{
  padding-left: 50px;
}
.info
{
  padding-left: 70px;
  line-height: 1.6;
}
</style>
</head>
<body>


<div class="head">
<nav>
<img src="N1.png"  class="logo" width="90" height="90">
<ul>
 <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>
</nav><br><br><br>


<div class="wrapper">
  <div class="wrapper_left">
    <ul>
      <li data-li="angular" class="active">
        <p>Dr.Arjun MBBS,MD</p>
      </li>
      <li data-li="nodejs">
        <p>Dr.Akriti rai MBBS,MD</p>
      </li>
      <li data-li="reactjs">
        <p>Dr.HS Bose MBBS,MD</p>
      </li>
      <li data-li="vuejs">
        <p>Dr.RD JAMES MBBS,MD</p>
      </li>
```

```
    </ul>
  </div>
  <div class="wrapper_right">

    <div class="container">
      <div class="item angular">
        <div class="item_info">
          <div class="img"></div>


          <p>Dr.Arjun MBBS,MD</p>
          <img src="doc1.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
<p>
        <b>SPECIALIST : Allergists/Immunologists</b>
         <br>
        <b>ADDRESS  : 1C, Rainbow street,
Chennai,<br>& nbsp 600018</b>
         <br>
      <b>PHONE  : 9548210055</b><br>
   <b>   EMAIL  :arjun12@gmail.com</b></p></div>
      </div>
      <div class="item nodejs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>


          <p>Dr.Akriti rai  MBBs,MD,DM</p>
           <img src="doc2.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
        <p>
        <b>SPECIALIST : Allergists/Immunologists</b>
         <br>
        <b>ADDRESS  : 2/520, East Coast Road,Chennai,<br>
  Pincode - 600041</b>
         <br>
      <b>PHONE  : 9942129051</b><br>
   <b>   EMAIL  :drrai@gmail.com</b></p></div>
      <div class="item reactjs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>
          <p>Dr.HS Bose MBBS,MD</p>
          <img src="doc3.png" align="right" height="130" width="120" style="padding-left:
```

```
20px; padding-bottom: 50px;">
        </div>
       <p>
        <b>SPECIALIST : Allergists/Immunologists</b>
         <br>
        <b>ADDRESS  : 51A, Pammal Chennai,<br>  Pincode- 600044</b>
         <br>
      <b>PHONE  :9894155948 </b><br>
   <b>   EMAIL  : drbose77@gmail.com</b>
 </p>
</div>
      <div class="item vuejs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>
          <p>Dr.RD JAMES</p>
          <img src="doc4.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
        <p>
        <b>SPECIALIST : Allergists/Immunologists</b>
         <br>
        <b>ADDRESS   : 7G, APJ Street,Thiruvanmaiur Chennai,<br>& nbsp Pincode -
600021</b>
         <br>
      <b>PHONE  : 9843263140</b><br>
   <b>   EMAIL  :drjohn77@gmail.com</b></p>
      </div>
    </div>
  </div>
</div>
  <script src="aj.js"></script>
</body>
</html>
```

Annesthesiologists:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" href="aj.css">
  <style type=text/css>
*  {
margin: 0;
font-family: sans-serif;
padding: 0;
}
.head{
```

```
  position: relative;
  width: 100%;
  height: 100vh;
  background: #eff4fd;
}
nav
{
  display: flex;
  width: 84%;
  margin: auto;
  padding: 20px 0;
  align-items: center;
  justify-content: space-between;
}
nav ul li{
  display: inline-block;
  list-style: none;
  margin: 10px 20px;
}
nav ul li a{
  text-decoration: none;
  color: #000;
  font-weight: bold;


}
nav ul li a:hover{
  color: blueviolet;
}
.list{
  padding-left: 50px;
}
.info
{
  padding-left: 70px;
  line-height: 1.6;
}
</style>
</head>
<body>


<div class="head">
<nav>
<img src="N1.png"  class="logo" width="90" height="90">
<ul>
 <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>
```

```
</nav><br><br><br>


<div class="wrapper">
  <div class="wrapper_left">
    <ul>
      <li data-li="angular" class="active">
        <p>Dr.Swarup MBBS,MD</p>
      </li>
      <li data-li="nodejs">
        <p>Dr.Sowmiya MBBS,MS</p>
      </li>
      <li data-li="reactjs">
        <p>Dr.Puja MBBS,MD</p>
      </li>
      <li data-li="vuejs">
        <p>Dr.Ramesh MBBS,MD</p>
      </li>



    </ul>
  </div>
  <div class="wrapper_right">

    <div class="container">
      <div class="item angular">
        <div class="item_info">
          <div class="img"></div>


          <p>Dr.Swarup MBBS,MD</p>
          <img src="d8.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
<p>
        <b>SPECIALIST : ANESTHESIOLOGISTS</b>
         <br>
        <b>ADDRESS  : 1C, Rainbow street,
Chennai,<br>  600018</b>
         <br>
      <b>PHONE  : 9548210055</b><br>
   <b>   EMAIL  :drswarup12@gmail.com</b></p></div>
      </div>
      <div class="item nodejs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>
```

```
          <p>Dr.Sowmiya  MBBS,MS</p>
           <img src="d7.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
        <p>
        <b>SPECIALIST : ANESTHESIOLOGISTS</b>
         <br>
        <b>ADDRESS     : 2/520, East Coast Road,
Chennai,<br>
  Pincode - 600041</b>
         <br>
      <b>PHONE  : 9942129051</b><br>
   <b>   EMAIL  :drsowimya@gmail.com</b></p></div>
      <div class="item reactjs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>
          <p>Dr.Puja MBBS,MD</p>
          <img src="d6.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
       <p>
        <b>SPECIALIST : ANESTHESIOLOGISTS</b>
         <br>
        <b>ADDRESS  : 51A, Pammal Chennai,<br>  Pincode- 600044</b>
         <br>
      <b>PHONE  :9894155948 </b><br>
   <b>   EMAIL  : drpuja77@gmail.com</b>
 </p>
</div>
      <div class="item vuejs" style="display: none;">
        <div class="item_info">
          <div class="img"></div>
          <p>Dr.Ramesh</p>
          <img src="d5.png" align="right" height="130" width="120" style="padding-left:
20px; padding-bottom: 50px;">
        </div>
        <p>
        <b>SPECIALIST : ANESTHESIOLOGISTS</b>
         <br>
        <b>ADDRESS 7G, APJ Street,Thiruvanmaiur Chennai,<br>& Pincode - 600021</b>
         <br>
      <b>PHONE  : 9843263140</b><br>
   <b>   EMAIL  :drramesh77@gmail.com</b></p>
      </div>
```

```
    </div>
  </div>
</div>
  <script src="aj.js"></script>
</body>
</html>
```

Doctor login code:

```
<!DOCTYPE html>
<html lang="en">


<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="./doc login.css">
        <script type="text/javascript" src="js.js"></script>
    <title>Doctor Login</title>


</head>


<body>
    <div class="head">
<nav>
<img src="N1.png"  class="logo" width="90" height="90">
<ul>
  <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>
</ul>
</nav>
</div>


    <div class="container">


        <form name="myform" id="form" onsubmit="return vfun()">
            <h1>DOCTOR LOGIN</h1>
            <div class="inputs">
                <input type="text" name="name" class="name" maxlength="100" minlength="3"
placeholder="Your Name"
                    required> <br>
                <input type="text" name="user" class="Your Id" maxlength="100"
minlength="3" placeholder="Your ID" id="eemail"
```

```
                    required> <br>
                <input type="password" name="pass" class="password" maxlength="32"
minlength="8" placeholder="password" id="lpassword"
                    required> <br>
            </div>
            <div class="buttons">
                <button type="submit" onclick ="SignIn()" style="text-decoration:
none;">Login</button>
            </div>
            <div class="links">
                <a href="#" class="forgetPassword">Forget Password ?</a>
            </div>
        </form>


    </div>
    <script src="https://www.gstatic.com/firebasejs/8.6.1/firebase.js"></script>
<script src="https://www.gstatic.com/firebasejs/8.6.1/firebase-analytics.js"></script>
<script src="./doctot.js"></script>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
<script src="server.js"></script>
</body>


</html>
```

User login code:

```
<!DOCTYPE html>
<html lang="en">


<head>

    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="./admin login.css">
    <title>User Login</title>
    <script src="./dataadminlogin.js"></script>

</head>

<body>
        <div class="head">
<nav>

<img src="N1.png"  class="logo" width="90" height="90">
<ul>
  <li><a href="index.html"> HOME </a>  </li>

   ---
```

```
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
<li><a href="admin login.html"> USER LOGIN </a>  </li>
<li><a href="contact.html"> CONTACT </a></li>
</ul>
</nav>
</div>
    <div class="container">



            <h1>USER LOGIN</h1>

                <input type="text" name="user1" class="ID" maxlength="100" minlength="3"
placeholder="enter your email" id="eemail"
                    > <br>
                <input type="password" name="pass1" class="password" maxlength="32"
minlength="8" placeholder="enter your password" id="lpassword"
                    > <br>


                <input type="submit" id="signup"  name="signup" value="sign up" />
                <input type="submit" id="login"  name="login" value="login" />
                <div class="button">
                  <button><a href="http://localhost/doctor-appointment-booking-system-
php/appointment.php"> Book an Appointment</a></button>
                  </div>


      </body>



      <script type="module">
        // Import the functions you need from the SDKs you need
        import { initializeApp } from "https://www.gstatic.com/firebasejs/9.17.2/firebase-
app.js";
        import { getDatabase,set,ref,update } from
"https://www.gstatic.com/firebasejs/9.17.2/firebase-database.js";
        import { getAuth, createUserWithEmailAndPassword,signInWithEmailAndPassword } from
"https://www.gstatic.com/firebasejs/9.17.2/firebase-auth.js";


        // TODO: Add SDKs for Firebase products that you want to use
        // https://firebase.google.com/docs/web/setup#available-libraries
```

```
// Your web app's Firebase configuration
const firebaseConfig = {
  apiKey: "AIzaSyAw74VnBaozlmeG0v6o3W52Wuoq1Vg17Cs",
  authDomain: "authentication-efffb.firebaseapp.com",
  databaseURL: "https://authentication-efffb-default-rtdb.firebaseio.com",
  projectId: "authentication-efffb",
  storageBucket: "authentication-efffb.appspot.com",
  messagingSenderId: "1019379381116",
  appId: "1:1019379381116:web:32f0ad6ce1434634aceaf9"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const database=getDatabase(app);
const auth = getAuth();

signup.addEventListener('click',(e) =>{


var email=document.getElementById("eemail").value;
var password=document.getElementById("lpassword").value;

  createUserWithEmailAndPassword(auth, email, password)
    .then((userCredential) => {
    // Signed in
      const user = userCredential.user;
      set(ref(database, 'users/' + user.uid), {
           email: email,
           password: password
          })
         alert("user created successfully");
       // ...
     })
      .catch((error) => {
       const errorCode = error.code;
       const errorMessage = error.message;
        // ..
       alert(errorMessage);
        });
      });


      login.addEventListener('click',(e) =>{
        var email=document.getElementById("eemail").value;
```

```
                var password=document.getElementById("lpassword").value;


                signInWithEmailAndPassword(auth, email, password)
                      .then((userCredential) => {
                  // Signed in
                 const user = userCredential.user;
                 const dt=new Date();
                 update(ref(database, 'users/' + user.uid), {
                   last_login :dt,
                  })
                  alert("WELCOME TO KPR HOSPITAL");
                  window.location.href="./ad.html";
                    // ...
                   })
                .catch((error) => {
                  const errorCode = error.code;
                  const errorMessage = error.message;
                  alert(errorMessage);
                  });


              });
      </script>
</html>
```

Appointment code:

```
<?php


include_once 'config/Database.php';
include_once 'class/User.php';
include_once 'class/Appointment.php';
include_once 'class/Patient.php';


$database = new Database();
$db = $database->getConnection();


$user = new User($db);
if(!$user->loggedIn()) {
    header("Location: index.php");
}
$appointment = new Appointment($db);
$patient = new Patient($db);
include('inc/header4.php');
?>
<script src="js/appointment.js"></script>
</head>
```

```
<body>

    <div class="container-fluid">
    <?php include('top_menus.php'); ?>
        <div class="row row-offcanvas row-offcanvas-left">
            <?php include('left_menus.php'); ?>
            <div class="col-md-9 col-lg-10 main">
            <h2>Manage Appointment</h2>
        <div class="panel-heading">
            <div class="row">
                <div class="col-md-10">
                    <h3 class="panel-title"></h3>
                </div>
                <?php if($user->isAdmin()) { ?>
                <div class="col-md-2" align="right">
                    <button type="button" id="createAppointment" class="btn btn-success"
title="Create Appointment"><span class="glyphicon glyphicon-plus">Add</span></button>
                </div>
                <?php } ?>
            </div>
        </div>
        <table id="appointmentListing" class="table table-bordered table-striped">
            <thead>
                <tr>
                    <th>#</th>
                    <th>Patient</th>
                    <th>Doctor</th>
                    <th>Specialization</th>
                    <th>Fee</th>
                    <th>Apointment Time</th>
                    <th>Apointment Date</th>
                    <th>Status</th>
                    <th></th>
                    <th></th>
                    <th></th>
                </tr>
            </thead>
        </table>
    </div>
    </div>
    <div id="appointmentModal" class="modal fade">
        <div class="modal-dialog">
            <form method="post" id="appointmentForm">
                <div class="modal-content">
                    <div class="modal-header">
                        <button type="button" class="close" data-dismiss="modal"></button>
                        <h4 class="modal-title"><i class="fa fa-plus"></i> Edit Record</h4>
                    </div>
                    <div class="modal-body">
                        <div class="form-group"
                            <label for="patient_name" class="control-label">Patient</label>
```

```
                            <select class="form-control" id="patient_name"
name="patient_name"/>
                            <?php
                            $result = $patient->patientList();
                            while ($patients = $result->fetch_assoc()) {
                            ?>
                                <option value="<?php echo $patients['id']; ?>"><?php echo
$patients['name']; ?></option>
                            <?php } ?>
                            </select>
                        </div>
                        <div class="form-group"
                            <label for="doctor" class="control-label">Doctor</label>
                            <select class="form-control" id="doctor_name"
name="doctor_name"/>
                            <?php
                            $result = $appointment->doctorList();
                            while ($doctor = $result->fetch_assoc()) {
                            ?>
                                <option value="<?php echo $doctor['id']; ?>"><?php echo
$doctor['name']; ?></option>
                            <?php } ?>
                            </select>
                        </div>
                        <div class="form-group">
                            <label for="specialization" class="control-
label">Specialization</label>
                            <select class="form-control" id="specialization"
name="specialization"/>
                            <?php
                            $result = $appointment->specializationList();
                            while ($specialization = $result->fetch_assoc()) {
                            ?>
                                <option value="<?php echo $specialization['id']; ?>"><?php
echo ucfirst($specialization['specialization']); ?></option>
                            <?php } ?>
                            </select>
                        </div>
                        <div class="form-group">
                            <label for="fee" class="control-label">Fee</label>
                            <input type="text" class="form-control" id="fee" name="fee"
placeholder="fee">
                        </div>
                        <div class="form-group">
                            <label for="appointment_date" class="control-label">Appointment
Date</label>
                            <input type="date" class="form-control"  id="appointment_date"
name="appointment_date" value="<?php echo date('d-m-Y'); ?>">

                        </div>
```

```
                        <div class="form-group">
                            <label for="appointment_slot" class="control-label">Appointment
Slots</label>
                            <select class="form-control" id="appointment_slot"
name="appointment_slot">
                            </select>
                        </div>
                        <div class="form-group">
                            <label for="description" class="control-label">Active</label>
                            <select class="form-control" id="status" name="status"/>
                                <option value="Active">Active</option>
                                <option value="Completed">Completed</option>
                                <option value="Cancelled">Cancelled</option>
                            </select>
                        </div>
                    </div>
                    <div class="modal-footer">
                        <input type="hidden" name="id" id="id" />
                        <input type="hidden" name="action" id="action" value="" />
                        <input type="submit" name="save" id="save" class="btn btn-info"
value="Save" />
                        <button type="button" class="btn btn-default" data-
dismiss="modal">Close</button>
                    </div>
                </div>
            </form>
        </div>
    </div>

    <div id="appointmentDetails" class="modal fade">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header">
                    <button type="button" class="close" data-
dismiss="modal">&times;</button>
                    <h4 class="modal-title"><i class="fa fa-plus"></i> Appointment
Details</h4>
                </div>
                <div class="modal-body">
                    <div class="form-group">
                        <label for="name" class="control-label">Patient Name:</label>
                        <span id="a_patient"></span>
                    </div>
                    <div class="form-group">
                        <label for="p_gender" class="control-label">Doctor:</label>
                        <span id="a_doctor"></span>
                    </div>
                    <div class="form-group">
                        <label for="p_age" class="control-label">Specialization:</label>
                        <span id="a_special"></span>
                    </div>
```

```
                    <div class="form-group">
                        <label for="a_fee" class="control-label">Fee:</label>
                        <span id="a_fee"></span>
                    </div>
                    <div class="form-group">
                        <label for="phone" class="control-label">Appoint Date Time:</label>
                        <span id="a_time"></span>
                    </div>
                    <div class="form-group">
                        <label for="a_status" class="control-label">Status:</label>
                        <span id="a_status"></span>
                    </div>

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

Contact page code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Contact Us</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
    <link rel="stylesheet" href="ad.css">
    <link rel="stylesheet" href="social.css">
    <script  src="index.js"></script>



</head>
<body class="a">
    <div class="main">
      <div class="header">
            <div class="head">
<nav>
<img src="N1.png"  class="logo" width="90" height="90">
<ul>
  <li><a href="index.html"> HOME </a>  </li>
<li><a href="docsp.html"> DOCTOR </a>  </li>
<li><a href="doctor login.html"> DOCTOR LOGIN </a>  </li>
```

```
   <li><a href="admin login.html"> USER LOGIN </a>  </li>
   <li><a href="contact.html"> CONTACT </a></li>
   </ul>
   </nav>
   </div>
<br> <br>


              <h4 style="margin-left: 140px; text-transform: uppercase;">See us on Google
   Map</h4> <br> <br>


              <div id="googleMap" style="width:60%;height:400px;margin-left: 260px;"></div>


              <script>
              function myMap() {
              var mapProp= {
                  center:new google.maps.LatLng(23.814375,90.429541),
                  zoom:15,
              };
              var map=new google.maps.Map(document.getElementById("googleMap"),mapProp);
              }
              </script>

              <script
   src="https://maps.googleapis.com/maps/api/js?key=AIzaSyDPnoKeY02q30Iud6Ar-
   UN7O_Hjv1EFZz0&callback=myMap"></script>
         <br> <br><br> <br>


         <header>
     <!-- Content -->
   </header>


   <main>
     <!-- Content -->
   </main>


   <footer class="footer" style="margin-left: 160px;">
     <div class="footer__addr">
       <h1 class="footer__logo"><b>KPR HOSPITAL</b></h1>

       <h2>Contact</h2><br>

       <address>
         No 199, Luz Church Road, Mylapore,


      __
```

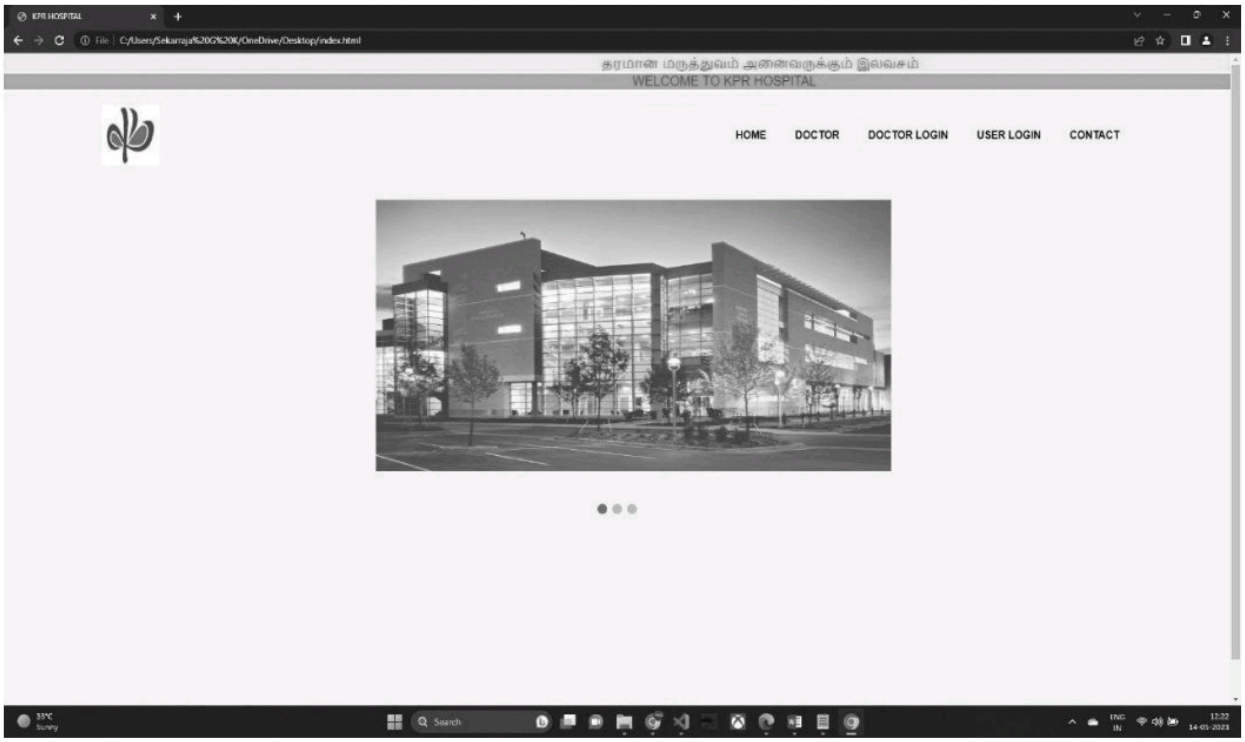
```
        <br>
        Chennai - 600004<br>

        <a class="footer__btn" href="kprhospital@gmail.com">Email Us</a>
      </address>
    </div>

    <ul class="footer__nav">
      <li class="nav__item">
        <h2 class="nav__title"><b>Contact</b></h2>


        <ul class="nav__ul">
          <li>
            <a href="#">Phone No : 6688992171<br>& nbsp 6677889922</a>
          </li>

          <li>
            <a href="#">Website : kprhospital.com</a>
          </li>
            <li>
            <a href="#">Customer Care : 0248 657546721</a>
          </li>
        </ul>
      </li>

      <li class="nav__item">
        <h2 class="nav__title"><b>Legal</b></h2>

        <ul class="nav__ul">
          <li>
            <a href="#">Privacy Policy</a>
          </li>

          <li>
            <a href="#">Terms of Use</a>
          </li>
          <li>
            <a href="#">Sitemap</a>
          </li>
        </ul>
      </li>
    </ul>
<div class="legal">
       <div class="legal__links">
         <span>@ Created by <span class="heart"></span>Siva L Sasitharan S Sekarraja G
   K</span>
       </div>
     </div>
   </footer>
       </div>
```

CHAPTER 5

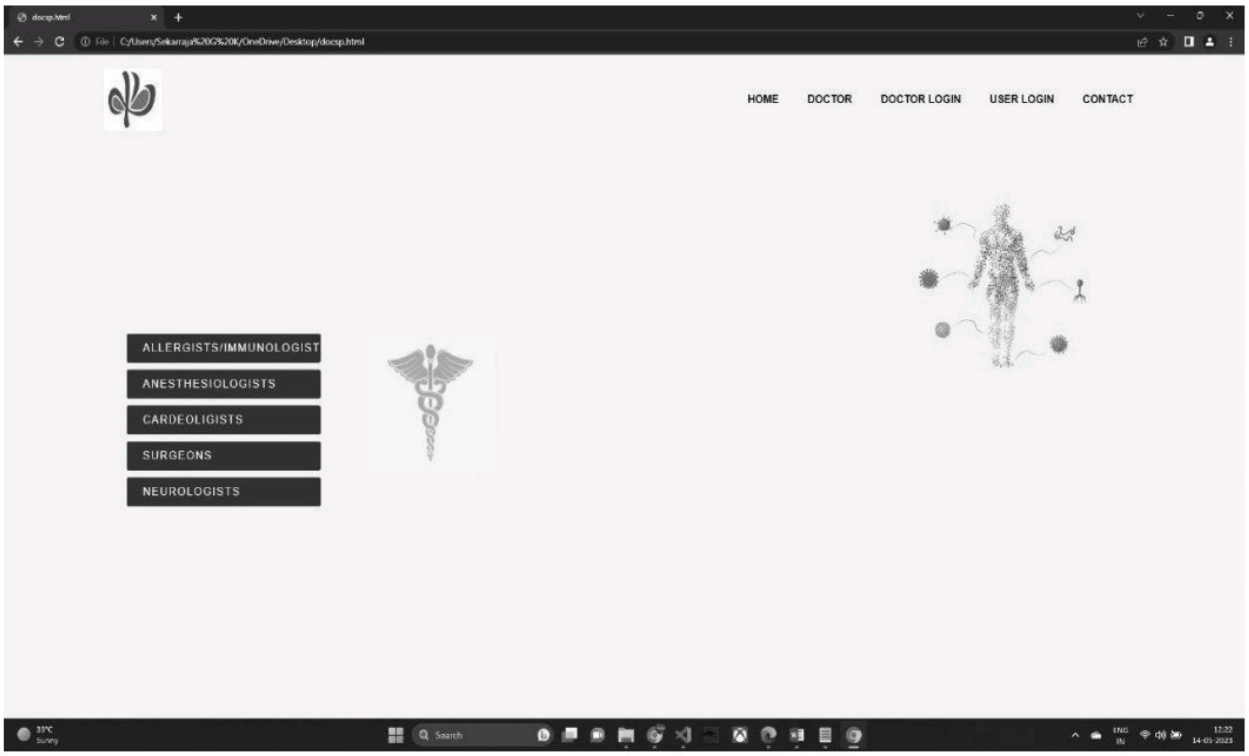
RESULT

5.1 OUTPUT:

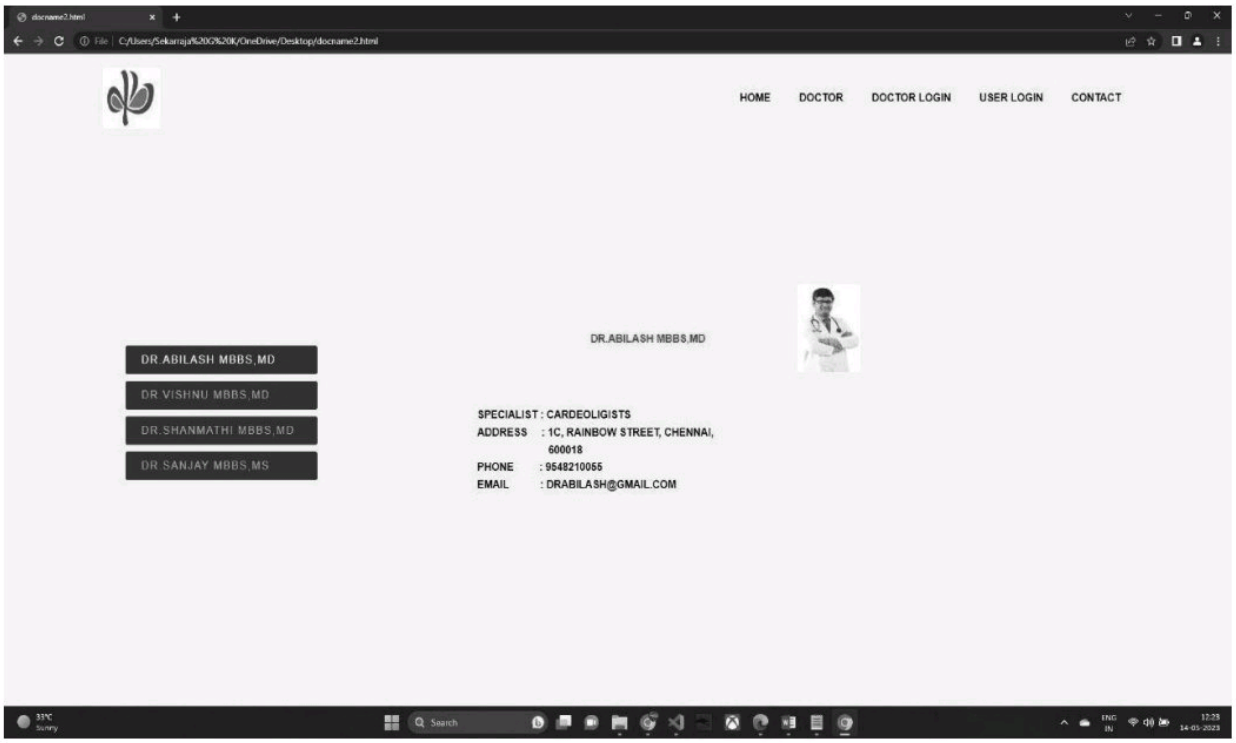
Home page:



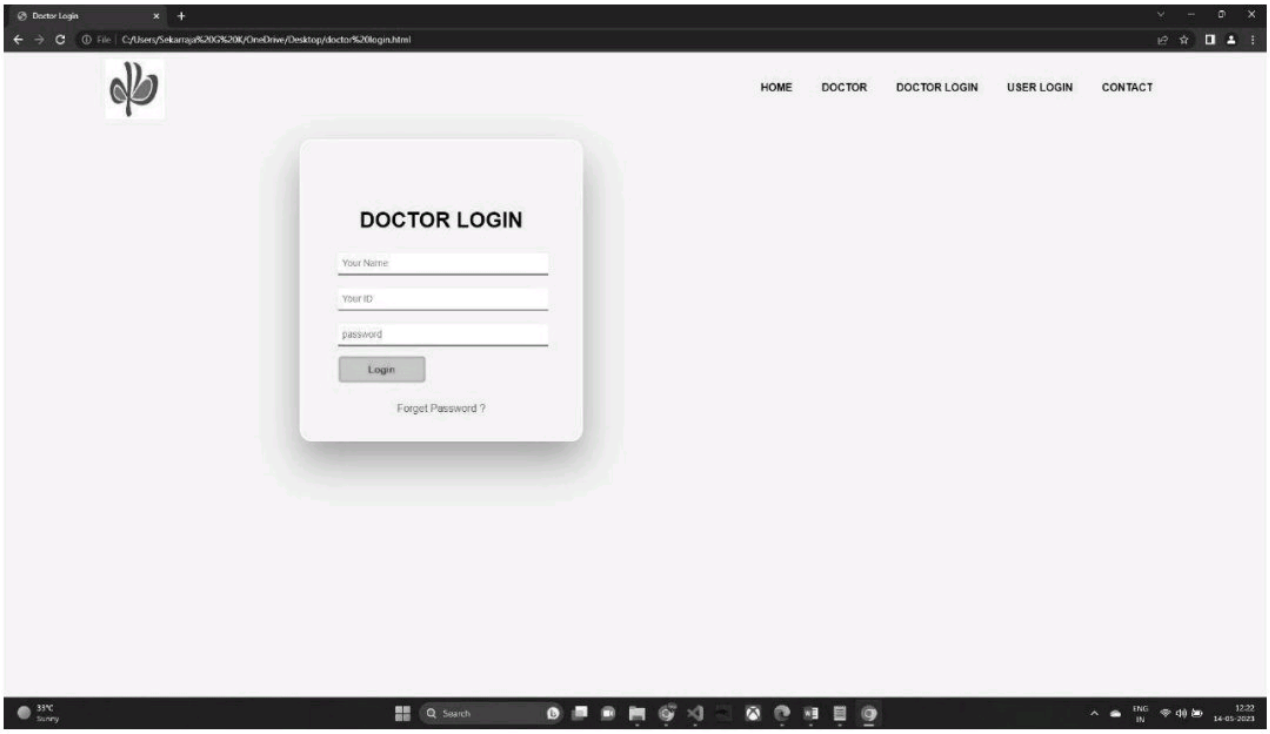
Doctor page:



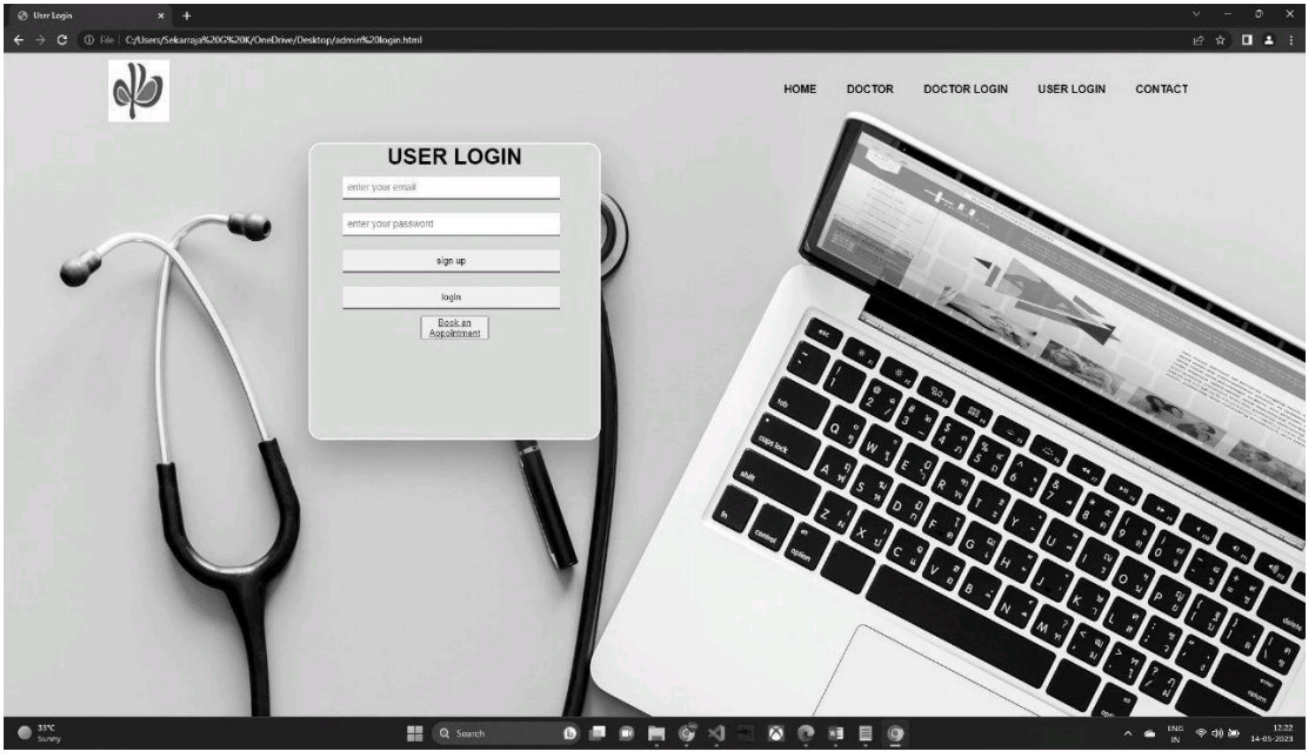
Cardeoligists selected:



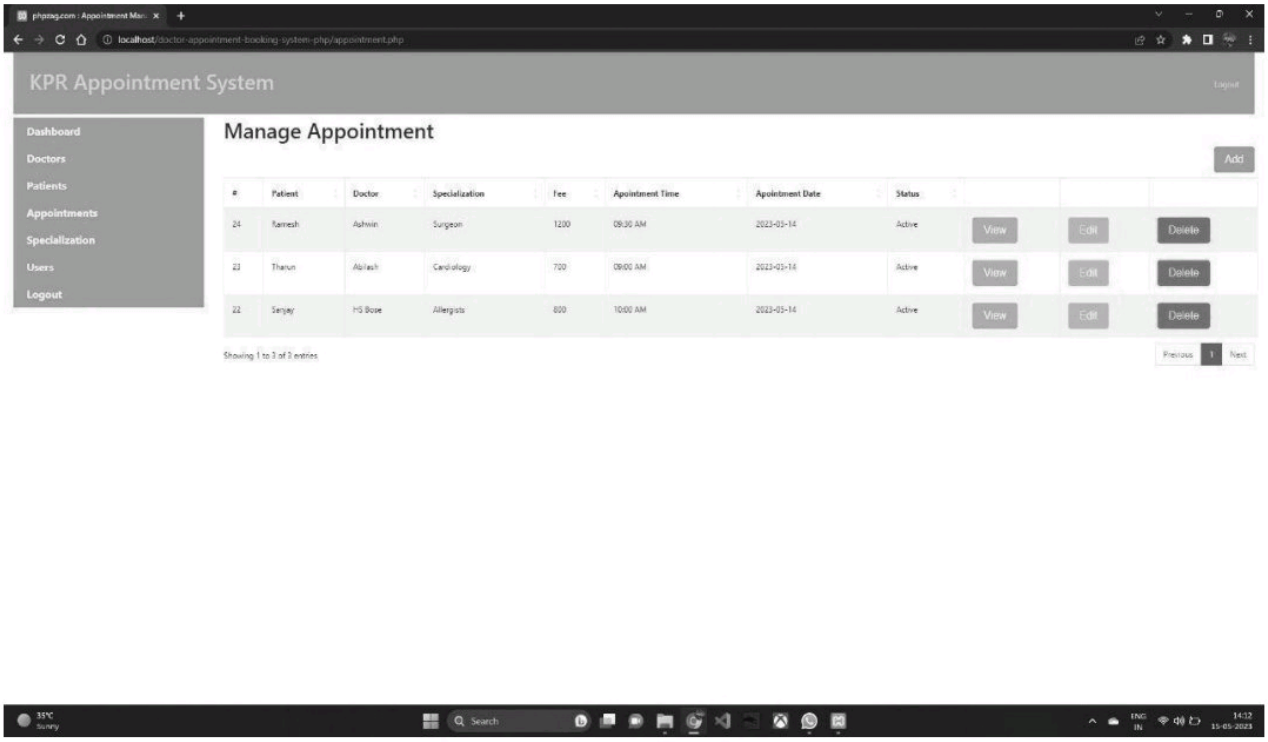
Doctor login page:



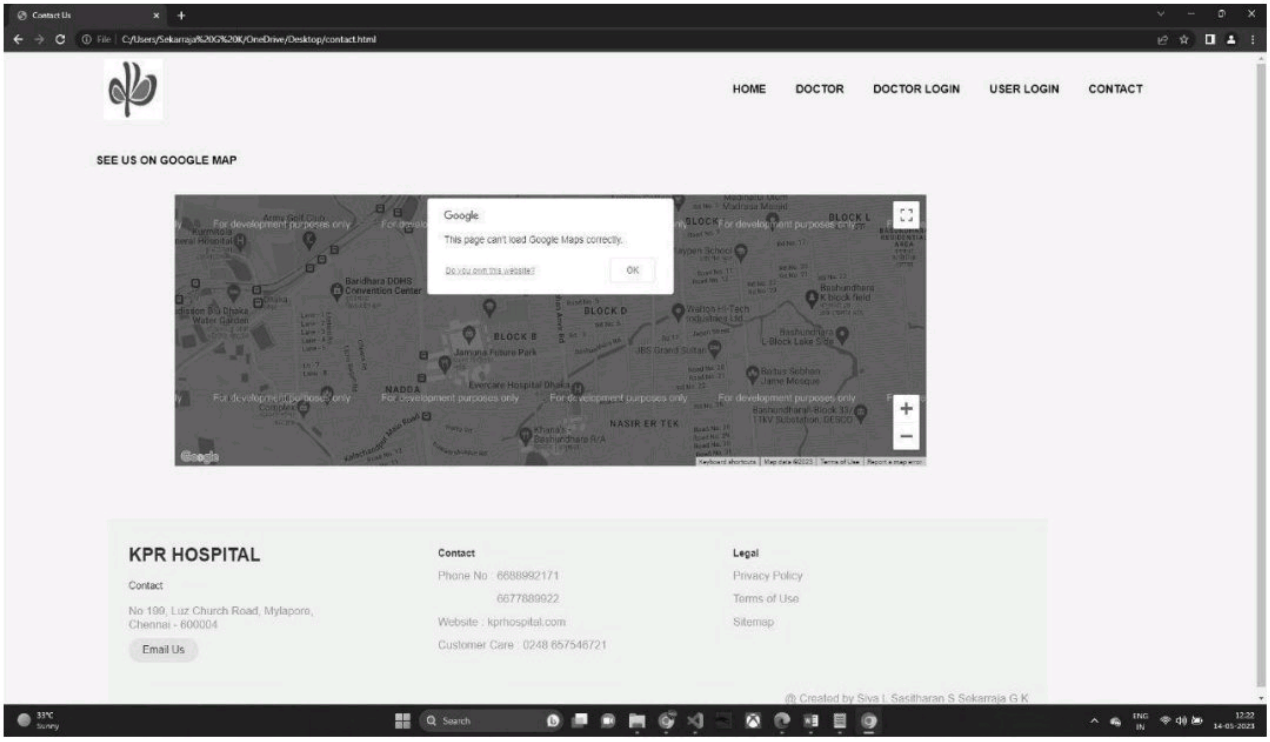
User login page:



Appointment page:



Contact :



Conclusion:

In conclusion, the implementation of a Hospital Management System (HMS) brings numerous benefits to healthcare facilities. It revolutionizes the way hospitals operate by streamlining administrative tasks, improving patient care, and enhancing overall all efficiency. By automating processes such as patient registration, appointment and the scheduling, billing, and inventory management, an HMS significantly reduces all the paperwork, minimizes errors, and saves valuable time for healthcare professionals.

References:

"Hospital Management System - A Comprehensive Guide" by Madhushree Gupta and Prof. B.P. Patil: This book offers a detailed understanding of hospital management systems, and covering topics such as system design, database management, patient management, billing, and more.

"Hospital Management System: An Integrated Approach" by Ashish Dwivedi: This very high comprehensive guide provides insights into the various modules and functionalities of an HMS. It explores areas like appointment scheduling, inventory management, medical records, and billing, while emphasizing the integration of technology for efficient hospital operations.

"Information Systems for Healthcare Management" by Charles J. Austin and Richard B. Olmstead: This book focuses on information systems in healthcare, including hospital management systems. It covers topics such as electronic health records, clinical decision support systems, and healthcare information exchange, offering a broader perspective on healthcare technology.

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