

# Internet and Web Programming CSE3002

# PROJECT TITLE: HOSPITAL MANAGEMENT SYSTEM

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### 1. INTRODUCTION

Technology has improved immensely in recent days. Improving the quality of one's life is an important benefit of technology in healthcare. Besides, it also reduces the burden of staff in the hospital and improves the health of the patient easily and efficiently. Hospital Management System is a digital platform that includes features of administration of the hospital. Our Hospital Management System aims to optimize the experience of medical professionals and patients by providing a seamless digital portal that minimizes the redundancies and bottlenecks of the traditional hospital management protocols. Main objective of our Hospital Management System is providing easy online access to users, immediate retrieval of information, no redundancy and immediate storage of information. This project is developed with the aim to decrease the work that is done manually at hospitals. Every single step is done with the help of system services such as doctor and patient registration, making appointments, prescribing patients, inquiries as well as complaints of customers. Hospital Management System will help in reducing lots of paperwork and file work which will allow easy management of hospitals. It will also provide all the latest information to the hospital administration and users wherever and whenever they need it. The interactions between the hospital and the patient is simplified using this system for the convenience of both sides.

### 2. SOFTWARE REQUIREMENT

### **FRONT END:**

- HTML
- CSS
- JAVASCRIPT
- BOOTSTRAP
- JQUERY
- AJAX

### **BACKEND**

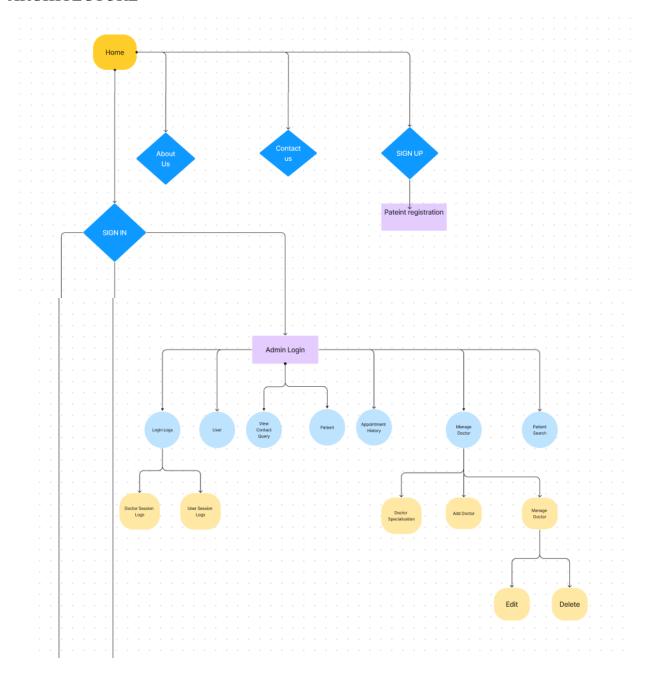
PHP

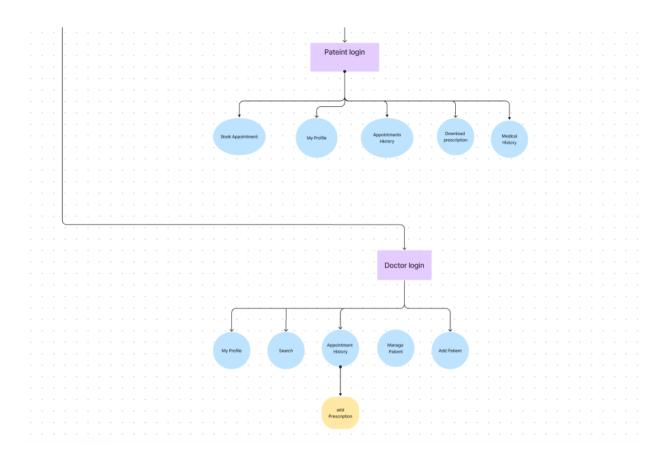
### **DATABASE**

MYSQL

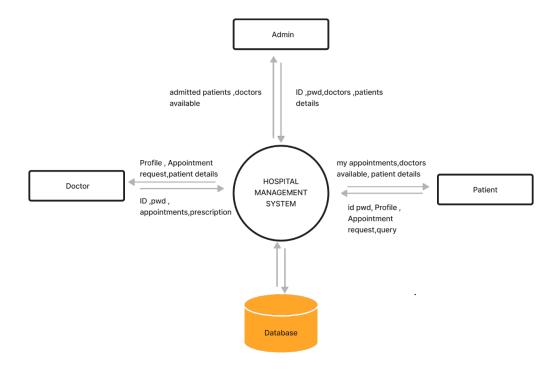
### 3. WEB LAYOUT OF THE PROJECT

### **ARCHITECTURE**





### **DATABASE CONNECTIVITY**



### 4. ER DIAGRAM



doctorspecilization	
id	int(11)
specilization	varchar(255)
creationDate	timestamp
updationDate	timestamp

userlog	
id	int(11)
uid	int(11)
username	varchar(255)
userip	binary(16)
loginTime	timestamp
logout	varchar(255)
status	int(11)

appointment	
id	int(11)
appid	varchar(25)
doctorSpecialization	varchar(255)
doctorld	int(11)
userld	int(11)
consultancyFees	int(11)
appointmentDate	varchar(255)
appointmentTime	varchar(255)
postingDate	timestamp
userStatus	int(11)
doctorStatus	int(11)
updationDate	timestamp

int(11)
varchar(255)
varchar(255)
bigint(12)
mediumtext
timestamp
mediumtext
timestamp
int(11)

users	
id	int(11)
fullName	varchar(255)
address	longtext
city	varchar(255)
gender	varchar(255)
email	varchar(255)
password	varchar(255)
regDate	timestamp
updationDate	timestamp

doctors	
id	int(11)
docid	varchar(25)
specilization	varchar(255)
doctorName	varchar(255)
address	longtext
docFees	varchar(255)
contactno	bigint(11)
docEmail	varchar(255)
password	varchar(255)
creationDate	timestamp
updationDate	timestamp
education	varchar(255)
exp	varchar(2)

tblmedicalhistory	
ID	int(10)
PatientID	int(10)
BloodPressure	varchar(200)
BloodSugar	varchar(200)
Weight	varchar(100)
Temperature	varchar(200)
MedicalPres	mediumtext
CreationDate	timestamp

int(11)
int(11)
varchar(255)
binary(16)
timestamp
varchar(255)
int(11)

tblpatient	
ID	int(10)
patid	varchar(25)
Docid	int(10)
PatientName	varchar(200)
PatientContno	bigint(10)
PatientEmail	varchar(200)
PatientGender	varchar(50)
PatientAdd	mediumtext
PatientAge	int(10)
PatientMedhis	mediumtext
CreationDate	timestamp
UpdationDate	timestamp



### 5. MODULES

### LOGIN/ SIGN UP

The index page includes the login/sign up feature for each user.

User sign up: User needs to enter full name, address, city, gender, email id for creation of an account. They need to create and confirm a password too. This password is stored in an encrypted form in the database.

User login: Once a user account is created then the patient can login into their account using their username and password.

User forgot password: User can reset their password by entering the name and email ID. Once the backend validates the user's credentials, the user can create a new password and confirm it.

Doctor login: Registered doctors can login to the system by entering their email ID and password.

Admin login: Admin can login into the system by entering their username and password.

### • MANAGE DOCTORS AND PATIENTS

Adding doctors: Admin can add new doctors to the system by entering their specialization, name of the doctor, clinic address, consultancy fees, contact no., email. Admin can create and confirm a password for the doctor to be added to the system.

Manage doctors: Admin can view the details of the registered doctors such as ID, Specialization, doctor name and date of addition. Admin can edit and delete the details of registered doctors.

Adding patient: Doctors can add patients by taking in their name, contact no., email ID, gender, address, age, medical history.

Manage patient: Admin can view the details of the patients such as Patient ID, name, date of addition etc. The medical history entered by the doctor is visible to the admin in a tabular format.

Manage users: Admin can view the details of users who've created an account in the system. Admin can also delete the users from the database.

Patient search: Admin can search for the patients using their patient ID.

### • QUERIES

Submitting queries: Users can submit their queries using the Contact Us page. The user has to enter their name, email ID, mobile no., and the description about the query.

Unread queries: Admin can check the submitted queries in the unread queries section and take action accordingly. Admin can acknowledge the query by adding their remarks.

Read queries: Admin can view the addressed queries and access the query details such as name of the person who submitted the query, email ID, admin remark and last updation date.

### APPOINTMENT

Making an appointment: Patients can login in into their account and make appointments. Patients need to select the doctor specialization, doctor name and date and time of appointment.

Checking appointments: Doctors can take actions for the appointments made by the patients in the manage patients section. Doctors can add the medical history and upload the prescription for the patient. The doctor can also update the medical history in the future, if needed.

Appointment history: Admins and doctors can both view the appointment details made by the patients in their respective portals.

### • ABOUT US/CHATBOT

These pages provide assistance to the users and provide information about the hospital.

About Us: This page contains information about the services provided by our system such as finding doctors 24/7, booking an appointment anytime and anywhere and viewing the health records at your fingertips. It also redirects the users to the respective pages.

Visitors can also see the doctors information with different specializations without registering into the system from the about us page itself.

Chatbot: The chatbot simulates human-like conversations with the users. This allows users to comfortably communicate with the system and get their doubts clarified easily.

### 6. CODING

mMi466C8"

```
Home Page:
 <!DOCTYPE HTML>
<html>
<head>
                  <title>Hospital Management System</title>
                  link rel="shortcut icon" href="favicon.ico" type="image/x-icon">
                  link href="style.css" rel="stylesheet" type="text/css" media="all" />
                  link href='http://fonts.googleapis.com/css?family=Ropa+Sans' rel='stylesheet'
type='text/css'>
                 <!-- <li>rel="stylesheet" href="css/responsiveslides.css"> -->
                  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js"></script>
                  <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="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
integrity = "sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtCapprox and the property of the pro
N9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
                                   crossorigin="anonymous" referrerpolicy="no-referrer" />
                  link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6"
+fzT" crossorigin="anonymous">
                  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
                  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"</pre>
```

integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOO

crossorigin="anonymous"></script>

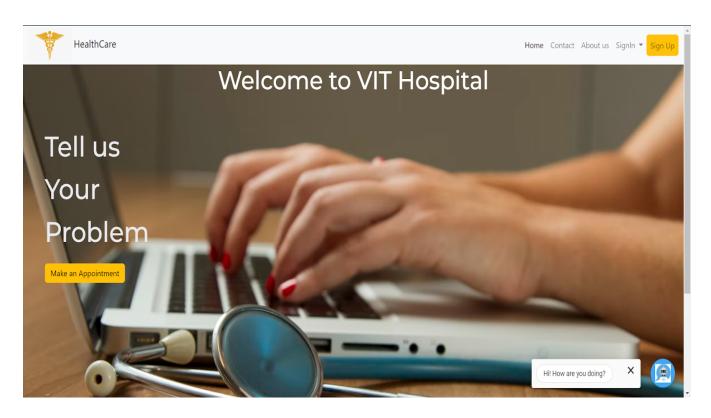
```
</head>
<body>
      <nav class="navbar navbar-expand-lg bg-light py-0">
            <div class="container-fluid">
                   <a class="navbar-brand" href="index.html">
                         <img src="images/logo-main.jpeg" alt="" height="65px">
                         HealthCare
                   </a>
                   <button class="navbar-toggler" type="button" data-bs-toggle="collapse"</pre>
data-bs-target="#navbarNavDropdown"
                         aria-controls="navbarNavDropdown" aria-expanded="false"
aria-label="Toggle navigation">
                         <span class="navbar-toggler-icon"></span>
                   </button>
                   <div class="collapse navbar-collapse justify-content-end"</pre>
id="navbarNavDropdown">
                         class="nav-item">
                                      <a class="nav-link active" aria-current="page"
href="#">Home</a>
                               class="nav-item">
                                      <a class="nav-link"
href="contact.php">Contact</a>
                               class="nav-item">
                                      <a class="nav-link" href="aboutus.php">About
us < /a >
                               <a class="nav-link dropdown-toggle" href="#"
role="button" data-bs-toggle="dropdown"
                                            aria-expanded="false">
                                            SignIn
                                      </a>
```

```
<a class="dropdown-item"</li>
href="hms/user-login.php">Patient</a>
                                           <a class="dropdown-item"</li>
href="hms/doctor/">Doctor</a>
                                           < 1i >
                                                 <hr class="dropdown-divider">
                                           <a class="dropdown-item"</li>
href="hms/admin">Admin</a>
                                     class="nav-item">
                                     <a class="nav-link btn btn-warning"
href="hms/registration.php">Sign Up</a>
                               </div>
            </div>
      </nav>
      <section id="img-section">
            <div class="title-text">
                  <h1 style="font-size:50px">Welcome to VIT Hospital</h1>
            </div>
            <div class="innerdiv">
                  Tell us
                  Your
                  Problem
                  <!-- <h1>Tell us </h1>
                               <h1>Your</h1>
                              <h1>Problem</h1> -->
            </div>
            <a id="app-btn" class="btn btn-warning" href="hms/user-login.php">Make an
Appointment</a>
      </section>
      <section id="login-all">
            <div class="login-all-div">
                  <div class="container text-center">
                         <div class="row">
                               <div class="col-lg-4 col-md-6 col-sm-12">
                                     <a class="login-text" href="hms/user-login.php"><i
```

```
class="login-img fa-solid
fa-hospital-user fa-5x"></i><br/>br>
                                                  PatientLogin</a>
                                   </div>
                                   <div class="col-lg-4 col-md-6 col-sm-12">
                                           <a class="login-text" href="hms/doctor/"><i
                                                         class="login-img fa-solid
fa-user-doctor fa-5x"></i><br/>br>
                                                  doctor-login</a>
                                   </div>
                                   <div class="col-lg-4 col-md-12 col-sm-12">
                                           <a class="login-text" href="hms/admin"><i
                                                         class="login-img fa-solid
fa-screwdriver-wrench fa-5x"></i><br/>br>
                                                  admin-login</a>
                                   </div>
                            </div>
                     </div>
              </div>
       </section>
       <section id="footer">
              <div class="emerg-footer">
                     <marquee behavior="" direction="left">
                            <h6>For Any emergency Contact +91-1234-567-899</h6>
                     </marquee>
              </div>
              <div class="cpry-footer" <h6>&copy;IWP Project Team</h6>
              </div>
       </section>
       <script
src="https://www.gstatic.com/dialogflow-console/fast/messenger/bootstrap.js?v=1"></script>
       <df-messenger intent="WELCOME" chat-title="HMS bot" chat-icon="chat.png"</pre>
              agent-id="7b92708f-71ea-407c-9fc6-79ad69b0c772"
language-code="en"></df-messenger>
</body>
```

</html>

### **OUTPUT:**



### **About US Page:**

```
link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
integrity = "sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtCapprox and the property of the pro
N9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
             crossorigin="anonymous" referrerpolicy="no-referrer" />
      link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6
+fzT" crossorigin="anonymous">
      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
      <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOO
mMi466C8" crossorigin="anonymous">
      </script>
      <title>HMS | About Us</title>
      <style>
      @import
url('https://fonts.googleapis.com/css2?family=Montserrat:wght@500&display=swap');
      body {
            margin: 0;
            text-align: center;
             font-family: 'Montserrat', sans-serif;
      }
      h2 {
             font-weight: bold;
            font-size: 2rem;
      }
      a:link {
            text-decoration: none;
      }
      a:visited {
             text-decoration: none;
```

```
}
a:hover {
  text-decoration: none;
  color: #c1d5a4;
}
#title {
  color: black;
  padding: 1% 15%;
#main-heading {
  font-size: 4rem;
}
.heading {
  font-size: 1.2rem;
#our-services {
  padding: 0% 15%;
}
#services {
  display: flex;
  align-items: center;
  justify-content: center;
.services-item {
  padding: 5% 7%;
  margin: 0% 3%;
  background: #ffc107;
  box-shadow: 5px 10px 10px grey;
}
#team {
  display: flex;
```

```
align-items: center;
    justify-content: center;
  }
  #our-team {
    margin: 5%;
  }
  .team-members {
    padding: 2% 2%;
    margin: 0% 0%;
    background: #ffc107;
  }
  .team-members img {
    height: 200px;
  }
  .footer {
    width: 100%;
    margin-bottom: 0%;
    font-family: 'Montserrat', sans-serif;
  }
  .emerg-footer {
    height: 20px;
    background-color: rgb(242, 41, 41);
    text-align: center;
    color: white;
  }
  .cpry-footer {
    text-align: center;
    background-color: whitesmoke;
  }
  </style>
</head>
<body>
```

```
<nav class="navbar navbar-expand-lg bg-light py-0">
    <div class="container-fluid">
      <a class="navbar-brand" href="index.html">
        <img src="images/logo-main.jpeg" alt="" height="65px">
        HealthCare
      </a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse"</pre>
data-bs-target="#navbarNavDropdown"
        aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle
navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse justify-content-end" id="navbarNavDropdown">
        ul class="navbar-nav">
           class="nav-item">
             <a class="nav-link " aria-current="page" href="index.html">Home</a>
          </1i>
          class="nav-item">
             <a class="nav-link" href="contact.php">Contact</a>
          </1i>
          class="nav-item">
             <a class="nav-link active" href="aboutus.html">About us</a>
          <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown"
               aria-expanded="false">
               SignIn
             </a>
             ul class="dropdown-menu">
               <a class="dropdown-item" href="hms/user-login.php">Patient</a>
               <a class="dropdown-item" href="hms/doctor/">Doctor</a>
               <1i>
                 <hr class="dropdown-divider">
               <a class="dropdown-item" href="hms/admin">Admin</a>
             class="nav-item">
```

```
<a class="nav-link btn btn-warning" href="hms/registration.php">SignUp</a>
                                </div>
            </div>
      </nav>
      <section id="title">
            <div class="row">
                   <div class="palmpicture">
                          <!-- <img src="images/logo-main.jpeg" alt="HMS Logo" height="25%"
width="25%"> -->
                   </div>
                   <div class="heading my-3">
                          <h1 id="main-heading" class="fw-bold my-3">About Us</h1>
                         At VIT Hospital we are committed to providing our patients with
                                advanced medical and surgical treatments with access to the latest treatment
technology available.
                         </div>
            </div>
      </section>
      </div>
      <section id="our-services">
             <h2>Our Services</h2>
             <div id="services">
                   <div id="left" class="services-item">
                          <img src="images/medical-team.png" alt="Doctor Icon" height="200"</pre>
usemap=#workmap>
                         <map name="workmap">
                                <area shape="rect" coords="0,0,200,200" href="view-doctors.php" alt="">
                          </map>
                          <h3>Find <br>Doctors</h3>
                          >
                                24/7 doctor availability and broad range of specialities
                         <br/>
<br/>
<br/>
<br/>
<br/>
<br/>
doctors.php">View<br/>
<br/>
<
Doctors</a></button>
                         <!-- <a href="view-doctors.php">View Doctors</a> -->
                   <div id="middle" class="services-item">
```

```
<img src="images/appointment-1.png" alt="Appointment Icon" height="200"</p>
usemap=#appmap>
         <map name="appmap">
           <area shape="rect" coords="0,0,200,200" href="hms/book-appointment.php"</pre>
alt="">
         </map>
         <h3>Book Appointment</h3>
         >
           Easily book appointments from any location at any time
         <button type="button" class="btn btn-warning"> <a</pre>
href="hms/book-appointment.php">Make
             Appointment</a></button>
       </div>
       <div id="right" class="services-item">
         <img src="images/prescription-1.png" alt="Prescription Icon" height="200"</p>
usemap=#healthmap>
         <map name="healthmap">
           <area shape="rect" coords="0,0,200,200" href="hms/user-login.php" alt="">
         </map>
         <h3>View Health Record</h3>
           Easy access to your health records now at your fingertips
         </div>
    </div>
  </section>
  <section id="our-team">
    <h2 class="my-3">Meet Our Team</h2>
    <div id="team">
       <div id="neha" class="team-members">
         <img src="images/woman.png">
         <h3>Neha Elsa <br/>br>Paul</h3>
       </div>
       <div id="keshav" class="team-members">
         <img src="images/man.png">
         <h3>Keshay <br>Balesara</h3>
       </div>
       <div id="ujjwal" class="team-members">
         <img src="images/man-1.png">
```

```
<h3>Ujjwal <br>Tiwari</h3>
      </div>
       <div id="vineet" class="team-members">
         <img src="images/man-2.png">
         <h3>Vinit Kumar <br>Singh</h3>
      </div>
      <div id="nikita" class="team-members">
         <img src="images/woman-1.png">
         <h3>Nikita <br>Sarkar</h3>
      </div>
    </div>
  </section>
  <section id="footer">
    <div class="emerg-footer">
      <marquee behavior="" direction="left">
         <h6>For Any emergency Contact +91-1234-567-899</h6>
      </marquee>
    </div>
    <div class="cpry-footer" <h6>&copy;IWP Project Team</h6>
    </div>
  </section>
</body>
</html>
```

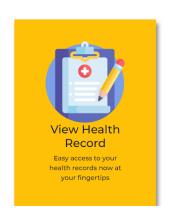
### **OUTPUT:**

# **About Us**

At VIT Hospital we are committed to providing our patients with advanced medical and surgical treatments with access to the latest treatment technology available.



# Book Appointment Easily book appointments from any location at any time



### **Contact Us Page:**

```
<?php
include once 'hms/include/config.php';
if (isset($ POST['submit'])) {
  $name = $ POST['fullname'];
  $email = $ POST['emailid'];
  $mobileno = $ POST['mobileno'];
  $dscrption = $ POST['description'];
  $query = mysqli query($con, "insert into tblcontactus(fullname,email,contactno,message)
value('$name','$email','$mobileno','$dscrption')");
  echo "<script>alert('Your information succesfully submitted');</script>";
  echo "<script>window.location.href ='contact.php'</script>";
}
?>
<!DOCTYPE HTML>
<html>
<head>
  <title>HMS | Contact us</title>
  <link rel="preconnect" href="https://fonts.googleapis.com">
  link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@500&display=swap%27"
rel="stylesheet">
  k rel="shortcut icon" href="favicon.ico" type="image/x-icon">
  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js"></script>
  <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="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
integrity="sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtC"
N9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
    crossorigin="anonymous" referrerpolicy="no-referrer" />
  link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6
+fzT" crossorigin="anonymous">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"</pre>
```

```
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOO
mMi466C8" crossorigin="anonymous">
  </script>
</head>
<style>
@import url('https://fonts.googleapis.com/css2?family=Montserrat:wght@500&display=swap');
body {
  background: #F8FBFB;
  font-family: 'Montserrat', sans-serif;
  background-image: url(images/hms image 2.jpg);
}
.wrap {
  padding: 20px;
.header {
  background: url(../images/header-bg.png);
}
.section {
  clear: both;
  padding: 0px 100px;
  margin: 0px 100px;
}
.group:before,
.group:after {
  content: "";
  display: table;
}
.group:after {
  clear: both;
}
.group {
  zoom: 1;
}
.col {
  display: block;
  float: left;
.col:first-child {
  margin-left: 0;}
```

```
.span_2_of_3 {
  width: 67.1%;
  padding: 1.5% 1.5% 1.5% 1.5%;
  border: 4px solid #ffc107;
  border-radius: 5px;
  margin-bottom: 10px;
}
.span_1_of_3 {
  padding: 0px 10px;
  margin-right: 30px;
  background-color: #ffc107;
  box-shadow: 5px 10px 10px grey;
}
.span 2 of 3 h2,
.span_1_of_3 h2 {
  color: black;
  margin-top: 0;
  font-size: 1.5em;
  font-weight: normal;
  letter-spacing: -1px;
  margin-top: 12px;
  padding-bottom: 20px;
}
.contact-form {
  position: relative;
  padding-bottom: 10px;
}
.contact-form div {
  padding: 5px 0 0px 0;
}
.contact-form span {
  display: block;
  font-size: 1em;
  color: black;
}
.contact-form input[type="text"],
input[type="email"],
.contact-form textarea {
  padding: 8px;
```

```
display: block;
  width: 98%;
  background: #fcfcfc;
  border: none;
  outline: none;
  color: black;
  font-size: 0.8125em:
  box-shadow: inset 0px 0px 3px rgb(199, 199, 199);
  -webkit-box-shadow: inset 0px 0px 3px rgb(199, 199, 199);
  -moz-box-shadow: inset 0px 0px 3px rgb(199, 199, 199);
  -o-box-shadow: inset 0px 0px 3px rgb(199, 199, 199);
  -webkit-appearance: none;
}
.contact-form textarea {
  resize: none;
  height: 120px;
.submit-button {
  display: flex;
  align-items: center;
  justify-content: center;
.contact-form input[type="submit"] {
  font-size: 1em;
  background: #ffc107;
  filter: progid:DXImageTransform.Microsoft.gradient(startColorstr='#3285d1',
endColorstr='#3285d1', GradientType=0);
  border: #fff 1px solid;
  -webkit-border-radius: 6px;
  -moz-border-radius: 6px;
  border-radius: 6px;
  -webkit-box-shadow: 0px 0px 3px rgb(207, 206, 206);
  -moz-box-shadow: 0px 0px 3px rgb(207, 206, 206);
  box-shadow: 0px 0px 3px rgb(207, 206, 206);
  text-transform: uppercase;
  color: #fff;
  padding: 15px 20px;
  transition: 0.5s ease:
  -o-transition: 0.5s ease;
  -webkit-transition: 0.5s ease;
```

```
float: left;
  margin-top: 8px;
  cursor: pointer;
}
.contact-form input[type="submit"]:hover {
  color: #000;
}
.contact-form input[type="submit"]:active {
  background-color: #000;
}
.company address {
  padding: 30 !important;
}
.company address p {
  font-size: 0.9em;
  color: black;
  line-height: 0.5em;
}
.company address p span {
  text-decoration: underline;
  color: #333;
  cursor: pointer;
  font-size: 1em;
}
.map {
  border: 1px solid #C7C7C7;
  margin-bottom: 15px;
}
.footer {
  background: #e0e7eb;
  padding: 15px 4px;
.footer-left {
  float: left;
```

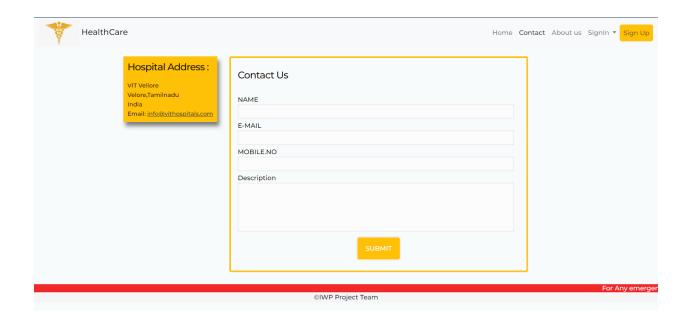
```
.footer-left ul li {
  display: inline-block;
}
.footer-left ul li a {
  color: black;
  text-transform: uppercase;
  display: block;
  margin-right: 10px;
}
.footer-right {
  float: right;
}
.footer-right p {
  color: black;
  text-transform: uppercase;
}
.footer-right a {
  text-transform: uppercase;
  color: black;
}
.footer-right a:hover,
.footer-left ul li a:hover {
  color: #3391E7;
}
.about h4,
.services h4 {
  color: black;
  margin-top: 0;
  font-size: 2em;
  font-weight: normal;
  letter-spacing: -1px;
  margin-top: 12px;
}
```

```
.footer {
  width: 100%;
  margin-bottom: 0%;
  font-family: 'Montserrat', sans-serif;
  position: absolute;
  bottom: 0;
}
.emerg-footer {
  height: 20px;
  background-color: rgb(242, 41, 41);
  text-align: center;
  color: white;
}
.cpry-footer {
  text-align: center;
  background-color: whitesmoke;
}
</style>
<body>
  <nav class="navbar navbar-expand-lg bg-light py-0">
    <div class="container-fluid">
       <a class="navbar-brand" href="index.html">
         <img src="images/logo-main.jpeg" alt="" height="65px">
         HealthCare
       </a>
       <button class="navbar-toggler" type="button" data-bs-toggle="collapse"</pre>
data-bs-target="#navbarNavDropdown"
         aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle
navigation">
         <span class="navbar-toggler-icon"></span>
       </button>
       <div class="collapse navbar-collapse justify-content-end" id="navbarNavDropdown">
         ul class="navbar-nav">
            class="nav-item">
              <a class="nav-link" aria-current="page" href="index.html">Home</a>
```

```
</1i>
          class="nav-item">
            <a class="nav-link active" href="contact.php">Contact</a>
          class="nav-item">
            <a class="nav-link" href="aboutus.php">About us</a>
          <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown"
              aria-expanded="false">
              SignIn
            </a>
            ul class="dropdown-menu">
              <a class="dropdown-item" href="hms/user-login.php">Patient</a>
              <a class="dropdown-item" href="hms/doctor/">Doctor</a>
              <1i>
                <hr class="dropdown-divider">
              <a class="dropdown-item" href="hms/admin">Admin</a>
            </1i>
          <a class="nav-link btn btn-warning" href="hms/registration.php">Sign Up</a>
          </1i>
      </div>
    </div>
  </nav>
  <div class="wrap">
    <div class="contact">
      <div class="section group">
        <div class="col span 1 of 3">
          <div class="company address">
            <h2>Hospital Address :</h2>
            VIT Vellore
            Velore, Tamilnadu
            India
```

```
Email: <span>info@vithospitals.com</span>
           </div><!-- company address-->
         </div>
         <!--colspan 1 of 3-->
         <div class="col span 2 of 3">
           <div class="contact-form">
             <h2>Contact Us</h2>
             <form name="contactus" method="post">
                <div>
                  <span><label>NAME</label></span>
                  <span><input type="text" name="fullname" required="true"</pre>
value=""></span>
                </div>
                <div>
                  <span><label>E-MAIL</label></span>
                  <span><input type="email" name="emailid" required="ture"</pre>
value=""></span>
                </div>
                <div>
                  <span><label>MOBILE.NO</label></span>
                  <span><input type="text" name="mobileno" required="true"</pre>
value=""></span>
                </div>
                <div>
                  <span><label>Description</label></span>
                  <span><textarea name="description" required="true"> </textarea></span>
                </div>
                <div class="submit-button">
                  <span><input type="submit" name="submit" value="Submit"></span>
                </div>
             </form>
           </div>
           <!--contact form-->
         </div>
         <!--colspan 2 of 3-->
      </div><!-- section group -->
    </div>
    <!--contact-->
```

### **OUTPUT**



### ADMIN | Dashboard

```
<?php
session start();
error reporting(0);
include('include/config.php');
include('include/checklogin.php');
check login();
<!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">
  <!-- CSS only -->
  link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6"
+fzT" crossorigin="anonymous">
  <!-- JavaScript Bundle with Popper -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOO
mMi466C8" crossorigin="anonymous">
  </script>
  link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
integrity="sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtC"
N9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
    crossorigin="anonymous" referrerpolicy="no-referrer" />
  link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css"
integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1FwO5qRG
vFXOdJZ4" crossorigin="anonymous">
  link
```

```
href="http://fonts.googleapis.com/css?family=Lato:300,400,400italic,600,700|Raleway:300,400,
500,600,700|Crete+Round:400italic"
    rel="stylesheet" type="text/css" />
  k rel="stylesheet" href="assets/css/styles1.css">
  <title>Dashboard - Admin</title>
</head>
<body>
  <?php include('include/header1.php');?>
  <div class="wrapper">
    <?php include('include/sidebar1.php');?>
    <div class="main" style="flex-grow:8">
       <div class="container text-center">
         <section id="page-title">
           <div class="row" style="justify-content: center">
              <div class="col-sm-8">
                <h1 class="mainTitle my-5 fw-bold text-center">Admin | Dashboard
                </h1>
              </div>
           </div>
         </section>
         <div class="row">
           <div class="col-lg-4 col-sm-12">
              <div class="panel panel-white no-radius text-center">
                <div class="panel-body">
                   <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i> <i
                        class="fa fa-face-smile fa-stack-1x fa-inverse"></i> </span>
                   <h2 class="StepTitle">Manage Users</h2>
                   <a href="manage-users.php">
                       <?php $result = mysqli query($con,"SELECT * FROM users ");</pre>
        $num rows = mysqli num rows($result);
        ?>
                        Total Users :<?php echo htmlentities($num rows); } ?>
```

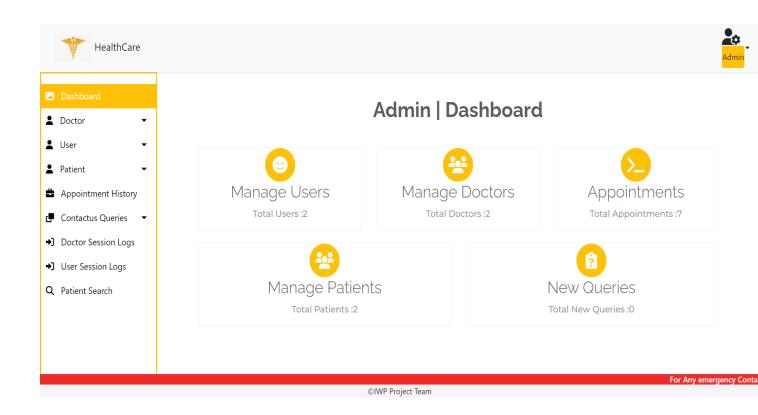
```
</a>
                  </div>
             </div>
           </div>
           <div class="col-lg-4 col-sm-12">
             <div class="panel panel-white no-radius text-center">
                <div class="panel-body">
                  <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i> <i
                       class="fa fa-users fa-stack-1x fa-inverse"></i> </span>
                  <h2 class="StepTitle">Manage Doctors</h2>
                  <a href="manage-doctors.php">
                       <?php $result1 = mysqli query($con,"SELECT * FROM doctors ");</pre>
        $num rows1 = mysqli num rows($result1);
        ?>
                       Total Doctors :<?php echo htmlentities($num rows1); } ?>
                    </a>
                  </div>
             </div>
           </div>
           <div class="col-lg-4 col-sm-12">
             <div class="panel panel-white no-radius text-center">
                <div class="panel-body">
                  <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i> <i
                       class="fa fa-terminal fa-stack-1x fa-inverse"></i> </span>
                  <h2 class="StepTitle"> Appointments</h2>
                  <a href="book-appointment.php">
                       <a href="appointment-history.php">
                         <?php $sql= mysqli query($con,"SELECT * FROM appointment");</pre>
$num rows2 = mysqli num rows($sql);
{
```

```
?>
                          Total Appointments :<?php echo htmlentities($num rows2); } ?>
                        </a>
                     </a>>
                   </div>
              </div>
           </div>
         </div>
         <hr>
         <div class="row">
           <div class="col-lg-6 col-sm-12">
              <div class="panel panel-white no-radius text-center">
                <div class="panel-body">
                   <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i> <i
                       class="fa fa-users fa-stack-1x fa-inverse"></i> </span>
                   <h2 class="StepTitle">Manage Patients</h2>
                   <a href="manage-patient.php">
                       <?php $result = mysqli query($con,"SELECT * FROM tblpatient ");</pre>
       $num rows = mysqli num rows($result);
       ?>
                       Total Patients :<?php echo htmlentities($num rows);
       } ?>
                     </a>
                   </div>
              </div>
           </div>
           <div class="col-lg-6 col-sm-12">
              <div class="panel panel-white no-radius text-center">
                <div class="panel-body">
                   <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i> <i
                        class="fa fa-clipboard-question fa-stack-1x fa-inverse"></i> </span>
                   <h2 class="StepTitle"> New Queries</h2>
```

```
<a href="book-appointment.php">
                      <a href="unread-queries.php">
                         <?php
          $sql= mysqli query($con,"SELECT * FROM tblcontactus where IsRead is null");
          $num rows22 = mysqli num rows($sql);
          ?>
                         Total New Queries :<?php echo htmlentities($num rows22); ?>
                      </a>
                    </a>>
                  </div>
             </div>
           </div>
         </div>
      </div>
    </div>
  </div>
  <section id="footer">
    <div class="emerg-footer">
      <marquee behavior="" direction="left">
         <h6>For Any emergency Contact +91-1234-567-899</h6>
      </marquee>
    </div>
    <div class="cpry-footer" <h6>&copy;IWP Project Team</h6>
    </div>
  </section>
  <!-- ¡Query CDN - Slim version (=without AJAX) -->
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi
6jizo" crossorigin="anonymous">
  </script>
  <!-- Popper.JS -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js"</pre>
integrity="sha384-cs/chFZiN24E4KMATLdqdvsezGxaGsi4hLGOzlXwp5UZB1LY//20VyM2taT
B4QvJ" crossorigin="anonymous">
  </script>
```

```
<!-- Bootstrap JS -->
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js"</pre>
integrity="sha384-uefMccjFJAIv6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7buKt/6v9K
I65qnm" crossorigin="anonymous">
  </script>
  <script src="vendor/jquery-cookie/jquery.cookie.js"></script>
  <script src="vendor/maskedinput/jquery.maskedinput.min.js"></script>
  <script type="text/javascript">
  $(document).ready(function() {
     $('#sidebarCollapse').on('click', function() {
       $('#sidebar').toggleClass('active');
    });
  });
  </script>
</body>
</html>
```

### **OUTPUT**



### **DOCTOR** | **Dashboard**

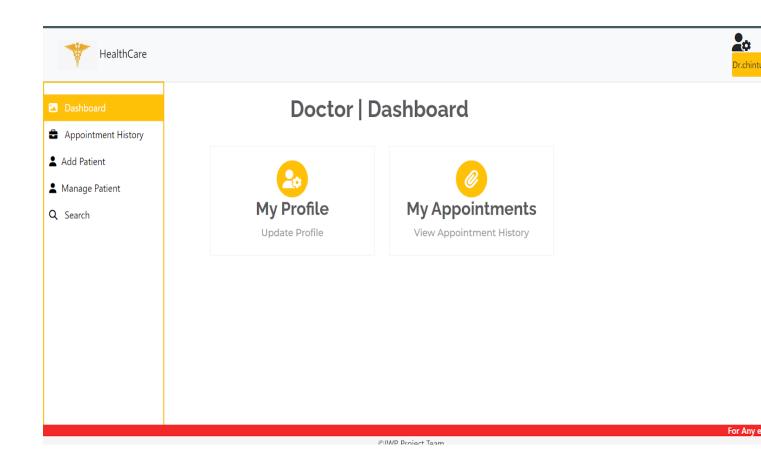
```
<?php
session start();
error reporting(0);
include('include/config.php');
include('include/checklogin.php');
check login();
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!-- CSS only -->
  link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6"
+fzT" crossorigin="anonymous">
  <!-- JavaScript Bundle with Popper -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOO
mMi466C8" crossorigin="anonymous">
  </script>
  <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
integrity="sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1coAFzvtC"
N9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
    crossorigin="anonymous" referrerpolicy="no-referrer" />
  <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css"
integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1FwO5qRG
vFXOdJZ4" crossorigin="anonymous">
  link
```

```
href="http://fonts.googleapis.com/css?family=Lato:300,400,400italic,600,700|Raleway:300,400,
500,600,700|Crete+Round:400italic"
    rel="stylesheet" type="text/css" />
  <link rel="stylesheet" href="assets/css/styles1.css">
  <title> Doctor</title>
</head>
<body>
  <?php include('include/header1.php');?>
  <div class="wrapper">
    <?php include('include/sidebar1.php');?>
    <div class="main" style="flex-grow:8">
       <div class="container text-center">
         <section id="page-title">
            <div class="row">
              <div class="col-sm-8">
                <h1 class="mainTitle my-4 fw-bold">Doctor | Dashboard</h1>
              </div>
            </div>
         </section>
         <div class="container-fluid container-fullw bg-white">
            <div class="row my-3">
              <div class="col-sm-4">
                <div class="panel panel-white no-radius text-center">
                   <div class="panel-body my-4">
                     <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i>
                        <i class="fa fa-user-gear fa-stack-1x fa-inverse"></i> </span>
                     <h2 class="StepTitle fw-bold">My Profile</h2>
                     <a href="edit-profile.php">
                          Update Profile
                        </a>
                     </div>
                </div>
              </div>
              <div class="col-sm-4">
                <div class="panel panel-white no-radius text-center">
                   <div class="panel-body" style="margin: 1.5rem!important;">
```

```
<span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
text-warning"></i>
                       <i class="fa fa-paperclip fa-stack-1x fa-inverse"></i> </span>
                     <h2 class="StepTitle fw-bold">My Appointments</h2>
                     <a href="appointment-history.php">
                         View Appointment History
                       </a>
                     </div>
                </div>
              </div>
           </div>
         </div>
       </div>
    </div>
  </div>
  <section id="footer">
    <div class="emerg-footer">
       <marquee behavior="" direction="left">
         <h6>For Any emergency Contact +91-1234-567-899</h6>
       </marquee>
    </div>
    <div class="cpry-footer" <h6>&copy;IWP Project Team</h6>
    </div>
  </section>
  <!-- ¡Query CDN - Slim version (=without AJAX) -->
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi
6jizo" crossorigin="anonymous">
  </script>
  <!-- Popper.JS -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js"</pre>
integrity="sha384-cs/chFZiN24E4KMATLdqdvsezGxaGsi4hLGOzlXwp5UZB1LY//20VyM2taT
B4QvJ" crossorigin="anonymous">
  </script>
  <!-- Bootstrap JS -->
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js"</pre>
```

### **OUTPUT**

</html>



### **USER | Dashboard**

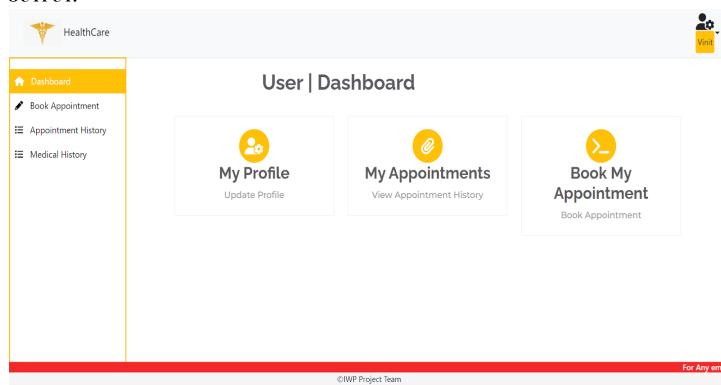
```
<?php
session start();
error reporting(0);
include('include/config.php');
include('include/checklogin.php');
check login();
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYki
      ZhlZB6+fzT" crossorigin="anonymous">
  </script>
  link rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.0/css/all.min.css"
      integrity="sha512-xh6O/CkQoPOWDdYTDqeRdPCVd1SpvCA9XXcUnZS2FmJNp1co"
      AFzvtCN9BmamE+4aHK8yyUHUSCcJHgXloTyT2A=="
    crossorigin="anonymous" referrerpolicy="no-referrer" />
  link rel="stylesheet"
      href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css"
      integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1Fw"
      O5qRGvFXOdJZ4" crossorigin="anonymous">
  link
      href="http://fonts.googleapis.com/css?family=Lato:300,400,400italic,600,700|Raleway:3
      00,400,500,600,700|Crete+Round:400italic"
    rel="stylesheet" type="text/css" />
  <link rel="stylesheet" href="assets/css/styles1.css">
  <title> patient</title>
</head>
<body>
```

```
<?php include('include/header1.php');?>
<div class="wrapper">
  <?php include('include/sidebar1.php');?>
  <div class="main" style="flex-grow:8">
    <div class="container text-center">
       <section id="page-title">
         <div class="row">
           <div class="col-sm-8">
              <h1 class="mainTitle my-4 fw-bold">User | Dashboard</h1>
           </div>
         </div>
       </section>
       <div class="container-fluid container-fullw bg-white">
         <div class="row my-3">
           <div class="col-sm-4">
              <div class="panel panel-white no-radius text-center">
                <div class="panel-body my-4">
                  <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
    text-warning"></i>
                     <i class="fa fa-user-gear fa-stack-1x fa-inverse"></i> </span>
                  <h2 class="StepTitle fw-bold">My Profile</h2>
                  <a href="edit-profile.php">
                       Update Profile
                     </a>
                  </div>
              </div>
           </div>
           <div class="col-sm-4">
              <div class="panel panel-white no-radius text-center">
                <div class="panel-body my-4">
                  <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
    text-warning"></i>
                     <i class="fa fa-paperclip fa-stack-1x fa-inverse"></i> </span>
                  <h2 class="StepTitle fw-bold">My Appointments</h2>
                  <a href="appointment-history.php">
                       View Appointment History
                     </a>
```

```
</div>
             </div>
           </div>
           <div class="col-sm-4">
             <div class="panel panel-white no-radius text-center">
                <div class="panel-body my-4">
                  <span class="fa-stack fa-2x"> <i class="fa fa-circle fa-stack-2x"</pre>
    text-warning"></i>
                    <i class="fa fa-terminal fa-stack-1x fa-inverse"></i> </span>
                  <h2 class="StepTitle fw-bold"> Book My Appointment</h2>
                  <a href="book-appointment.php">
                       Book Appointment
                    </a>
                  </div>
             </div>
           </div>
         </div>
      </div>
    </div>
  </div>
</div>
<section id="footer">
  <div class="emerg-footer">
    <marquee behavior="" direction="left">
       <h6>For Any emergency Contact +91-1234-567-899</h6>
    </marquee>
  </div>
  <div class="cpry-footer" <h6>&copy;IWP Project Team</h6>
  </div>
</section>
<!-- jQuery CDN - Slim version (=without AJAX)
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
    integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8ab
    tTE1Pi6jizo" crossorigin="anonymous">
  </script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js"</pre>
```

```
integrity="sha384-cs/chFZiN24E4KMATLdqdvsezGxaGsi4hLGOzlXwp5UZB1LY//20V
       yM2taTB4QvJ" crossorigin="anonymous">
  </script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js"</pre>
       integrity="sha384-uefMccjFJAIv6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7bu
       Kt/6v9KI65qnm" crossorigin="anonymous">
  </script>
  <!-- <script src="vendor/jquery-cookie/jquery.cookie.js"></script>
  <script src="vendor/maskedinput/jquery.maskedinput.min.js"></script> -->
  <script type="text/javascript">
  $(document).ready(function() {
    $('#sidebarCollapse').on('click', function() {
       $('#sidebar').toggleClass('active');
    });
  });
  </script>
</body>
</html>
```

### **OUTPUT:**



### **REFERENCES**

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- [3] Snyder, Kimberlee D., and Patrick Paulson. "Healthcare information systems: Analysis of healthcare software." Hospital topics 80.4 (2002): 5-12.
- [4] Oh, Sungyoung, et al. "Architecture design of healthcare software-as-a-service platform for cloud-based clinical decision support service." Healthcare informatics research 21.2 (2015): 102-110.
- [5] Dixit, Sunil K., and Murali Sambasivan. "A review of the Australian healthcare system: A policy perspective." SAGE open medicine 6 (2018): 2050312118769211.