HOSPITAL MANAGEMENT SYSTEM

A J-Component Project Report

submitted by

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under the guidance of

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in partial fulfillment for the award of the degree of

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in

COMPUTER SCIENCE AND ENGINEERING



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Hospital Management System

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Abstract— Among the five major sectors; Healthcare, Agriculture, Financial Inclusion, Public Transport and Education, automation in Healthcare is what will keep the other sectors blooming, as Human is the most important resource. Our system or website intercityhealthcare.com consists of service availability on the Internet. It provides easiest way for all the doctors, patients and others to get all the information needed as quick as possible that too from anywhere in the world. The persons new to particular city can get all the information regarding all the different hospitals, doctors in any hospital data, their available timings and data can be processed in minutes. The main use of this site is that any patient can get appointment to any doctor on any day. That is a patient doesn't need to move to particular city, hospital, doctor to get an appointment. This site also contains the administration module, which deals with inserting and deleting the information into site and modifying and updating the data.

I. DESIGN

This project comprises of many modules. Out of which we have undertaken following modules such as:

- Home
- Contact
- Home
 - Patient Login
 - o Patient Signup
 - Doctor Login
 - o Admin Login
- Patient Dashboard
 - o My Profile
 - My Appointments
 - Book my Appointment
- Doctor Dashboard
 - o My Profile
 - My Appointments

- Admin Dashboard
 - o Manage Patients
 - o Manage Doctors
 - Appointments
 - o New Queries

II. TECHNICAL DETAILS

- 1. HTML
- 2. CSS
- 3. JS
- 4. PHP
- 5. BOOTSTARP

III. CODE

(index.html)

```
<!DOCTYPE HTML>
<html>
        <head>
                <title>Hospital Management System</title>
                k href="css/style.css" rel="stylesheet" type="text/css" media="all" />
                <link href='http://fonts.googleapis.com/css?family=Ropa+Sans' rel='stylesheet' type='text/css'>
                <link rel="stylesheet" href="css/responsiveslides.css">
                <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js"></script>
        </head>
        <body>
                         <div class="header">
                                 <div class="wrap">
                                 <div class="logo">
                                         <a href="index.html" style="font-size: 30px;">Hospital Management
system</a>
                                 </div>
                                 <div class="top-nav">
                                         <ul>
                                                  cli class="active"><a href="index.html">Home</a>
                                                  <a href="contact.php">contact</a>
                                         </div>
                                 <div class="clear"> </div>
                         </div>
                </div>
                <div class="clear"> </div>
```

```
<div class="image-slider">
                                          <img src="images/slider-image1.jpg" alt="">
                                           <img src="images/slider-image2.jpg" alt="">
                                           <iing src="images/slider-image1.jpg" alt="">
                                       </div>
                  <div class="clear"> </div>
                  <div class="content-grids">
                       <div class="wrap">
                       <div class="section group">
                               <div class="listview_1_of_3 images_1_of_3">
                                       <div class="text list_1_of_2">
                                                <h3>Patients</h3>
                                                Register & Book Appointment
                                                <div class="button"><span><a href="hms/user-
login.php">Click Here</a></span></div>
                                  </div>
                               </div>
                               <div class="listview_1_of_3 images_1_of_3">
                                       <div class="text list 1 of 2">
                                                <h3>Doctors Login</h3>
                                                <div class="button"><span><a href="hms/doctor/">Click
Here</a></span></div>
                                       </div>
                               </div>
                                       <div class="listview_1_of_3 images_1_of_3">
                                       <div class="text list_1_of_2">
                                                <h3>Admin Login</h3>
                                                <div class="button"><span><a href="hms/admin">Click
Here</a></span></div>
                                  </div>
                               </div>
                       </div>
                  </div>
                 </div>
                 <div class="clear"> </div>
        </body>
</html>
(patientlogin.html)
<!DOCTYPE html>
<html>
        <head>
               <title>User-Login</title>
               <meta charset="utf-8"/>
                <meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=0,</p>
minimum-scale=1.0, maximum-scale=1.0">
```

```
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="vendor/bootstrap/css/bootstrap.min.css">
                k rel="stylesheet" href="vendor/fontawesome/css/font-awesome.min.css">
                k rel="stylesheet" href="vendor/themify-icons/themify-icons.min.css">
                k href="vendor/animate.css/animate.min.css" rel="stylesheet" media="screen">
                k href="vendor/perfect-scrollbar/perfect-scrollbar.min.css" rel="stylesheet" media="screen">
                k href="vendor/switchery/switchery.min.css" rel="stylesheet" media="screen">
                <link rel="stylesheet" href="assets/css/styles.css">
                <link rel="stylesheet" href="assets/css/plugins.css">
                k rel="stylesheet" href="assets/css/themes/theme-1.css" id="skin_color" />
        </head>
        <body class="login">
                <div class="row">
                                 <a href="../index.html"><h2> HMS | Patient Login</h2></a>
                                  </div>
                                  <div class="box-login">
                                          <form class="form-login" method="post">
                                                  <fieldset>
                                                           <legend>
                                                                   Sign in to your account
                                                           </legend>
                                                           >
                                                                   Please enter your name and password to log
in.<br/>
                                                                   <span style="color:red;"></span>
                                                           <div class="form-group">
                                                                   <span class="input-icon">
                                                                            <input type="text" class="form-
control" name="username" placeholder="Username">
                                                                            <i class="fa fa-user"></i> </span>
                                                           </div>
                                                           <div class="form-group form-actions">
                                                                   <span class="input-icon">
                                                                            <input type="password"
class="form-control password" name="password" placeholder="Password">
                                                                            <i class="fa fa-lock"></i>
                                                                            </span><a href="forgot-
password.php">
                                                                            Forgot Password?
                                                                   </a>
                                                           </div>
                                                           <div class="form-actions">
                                                                   <button type="submit" class="btn btn-
primary pull-right" name="submit">
                                                                            Login <i class="fa fa-arrow-circle-
right"></i>
                                                                    </button>
                                                           </div>
                                                           <div class="new-account">
                                                                   Don't have an account yet?
```

```
<a href="registration.php">
                                                                                                                                                                                                          Create an account
                                                                                                                                                                                   </a>
                                                                                                                                                             </div>
                                                                                                                                      </fieldset>
                                                                                                                </form>
                                                                                                                <div class="copyright">
                                                                                                                                      © <span class="current-year"></span><span
class="text-bold text-uppercase"> HMS</span>. <span>All rights reserved</span>
                                                                                                                </div>
                                                                                         </div>
                                                                   </div>
                                            </div>
                                            </script>
                      </body>
</html>
(patientsignup.html)
<!DOCTYPE html>
<html>
                      <head>
                                            <title>User Registration</title>
                                            <meta charset="utf-8"/>
                                             <meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=0,</pre>
minimum-scale=1.0, maximum-scale=1.0">
                                            <meta name="apple-mobile-web-app-capable" content="yes">
                                            <meta name="apple-mobile-web-app-status-bar-style" content="black">
                                             <meta content="" name="description" />
                                             <meta content="" name="author" />
href="http://fonts.googleap is.com/css?family=Lato:300,400,400 italic,600,700| Raleway:300,400,500,600,700| Crete+Lato:300,400,400 italic,600,700| Crete+Lato:300,400,400 italic,600,400 italic,600 it
Round:400italic" rel="stylesheet" type="text/css" />
                                            <script type="text/javascript">
function valid()
 if(document.registration.password.value!= document.registration.password_again.value)
alert("Password and Confirm Password Field do not match!!");
document.registration.password_again.focus();
return false;
return true;
</script>
                      </head>
                      <body class="login">
```

```
<div class="row">
                          <div class="main-login col-xs-10 col-xs-offset-1 col-sm-8 col-sm-offset-2 col-md-4 col-</pre>
md-offset-4">
                                   <div class="logo margin-top-30">
                                   <a href="../index.html"><h2>HMS | Patient Registration</h2></a>
                                   </div>
                                   <div class="box-register">
                                           <form name="registration" id="registration" method="post"</pre>
onSubmit="return valid();">
                                                    <fieldset>
                                                             <legend>
                                                                     Sign Up
                                                             </legend>
                                                             Enter your personal details below:
                                                             <div class="form-group">
                                                                     <input type="text" class="form-control"</pre>
name="full_name" placeholder="Full Name" required>
                                                             </div>
                                                             <div class="form-group">
                                                                     <input type="text" class="form-control"</pre>
name="address" placeholder="Address" required>
                                                             </div>
                                                             <div class="form-group">
                                                                     <input type="text" class="form-control"</pre>
name="city" placeholder="City" required>
                                                             </div>
                                                             <div class="form-group">
                                                                     <label class="block">
                                                                              Gender
                                                                     </label>
                                                                     <div class="clip-radio radio-primary">
                                                                              <input type="radio" id="rg-female"</pre>
name="gender" value="female" >
                                                                              <label for="rg-female">
                                                                                       Female
                                                                              </label>
                                                                              <input type="radio" id="rg-male"
name="gender" value="male">
                                                                              <label for="rg-male">
                                                                                       Male
                                                                              </label>
                                                                     </div>
                                                             </div>
                                                             >
                                                                     Enter your account details below:
                                                             <div class="form-group">
                                                                     <span class="input-icon">
                                                                              <input type="email" class="form-
control" name="email" id="email" onBlur="userAvailability()" placeholder="Email" required>
                                                                              <i class="fa fa-envelope"></i>
</span>
                                                                               <span id="user-availability-</pre>
status1" style="font-size:12px;"></span>
```

```
</div>
                                                           <div class="form-group">
                                                                    <span class="input-icon">
                                                                             <input type="password"
class="form-control" id="password" name="password" placeholder="Password" required>
                                                                             <i class="fa fa-lock"></i> </span>
                                                           </div>
                                                           <div class="form-group">
                                                                    <span class="input-icon">
                                                                             <input type="password"
class="form-control" id="password_again" name="password_again" placeholder="Password Again" required>
                                                                            <i class="fa fa-lock"></i> </span>
                                                           </div>
                                                           <div class="form-group">
                                                                    <div class="checkbox clip-check check-
primary">
                                                                             <input type="checkbox" id="agree"</pre>
value="agree" checked="true" readonly=" true">
                                                                             <label for="agree">
                                                                                     I agree
                                                                             </label>
                                                                    </div>
                                                           </div>
                                                           <div class="form-actions">
                                                                    >
                                                                             Already have an account?
                                                                             <a href="user-login.php">
                                                                                     Log-in
                                                                             </a>
                                                                    <button type="submit" class="btn btn-
primary pull-right" id="submit" name="submit">
                                                                             Submit <i class="fa fa-arrow-
circle-right"></i>
                                                                    </button>
                                                           </div>
                                                   </fieldset>
                                          </form>
                                          <div class="copyright">
                                                   © <span class="current-year"></span><span
class="text-bold text-uppercase"> HMS</span>. <span>All rights reserved</span>
                                          </div>
                                  </div>
                         </div>
                 </div>
                 <script>
                         jQuery(document).ready(function() {
                                  Main.init();
                                 Login.init();
                         });
                 </script>
```

```
</body>
```

(doctorlogin.html)

```
<!DOCTYPE html>
<html>
        <head>
                 <title>Doctor Login</title>
                <meta charset="utf-8"/>
                 <meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=0,</pre>
minimum-scale=1.0, maximum-scale=1.0">
        </head>
        <body class="login">
                 <div class="row">
                                  <div class="logo margin-top-30">
                                 <a href="../../index.html"><h2> HMS | Doctor Login</h2></a>
                                  </div>
                                 <div class="box-login">
                                          <form class="form-login" method="post">
                                                  <fieldset>
                                                           <legend>
                                                                   Sign in to your account
                                                           </legend>
                                                           Please enter your name and password to log
in.<br/>
                                                                   <span style="color:red;"></span>
                                                           <div class="form-group">
                                                                   <span class="input-icon">
                                                                            <input type="text" class="form-
control" name="username" placeholder="Username">
                                                                            <i class="fa fa-user"></i> </span>
                                                           </div>
                                                           <div class="form-group form-actions">
                                                                   <span class="input-icon">
                                                                            <input type="password"
class="form-control password" name="password" placeholder="Password">
                                                                            <i class="fa fa-lock"></i>
                                                                            </span>
                                                                            <a href="forgot-password.php">
                                                                            Forgot Password?
                                                                   </a>
                                                           </div>
                                                           <div class="form-actions">
                                                                   <button type="submit" class="btn btn-
primary pull-right" name="submit">
                                                                            Login <i class="fa fa-arrow-circle-
right"></i>
                                                                   </button>
                                                           </div>
```

```
</fieldset>
                                          </form>
                                         <div class="copyright">
                                                  © <span class="current-year"></span><span
class="text-bold text-uppercase"> HMS</span>. <span>All rights reserved</span>
                                          </div>
                                 </div>
                         </div>
                </div>
                <script src="assets/js/main.js"></script>
                <script src="assets/js/login.js"></script>
                <script>
                         ¡Query(document).ready(function() {
                                 Main.init();
                                 Login.init();
                         });
                </script>
        </body>
</html>
(adminlogin.html)
<!DOCTYPE html>
<html>
        <head>
                 <title>Admin-Login</title>
                <meta charset="utf-8"/>
                <meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=0,</pre>
minimum-scale=1.0, maximum-scale=1.0">
        </head>
        <body class="login">
                 <div class="row">
                                                                   <div class="logo margin-top-30">
                                 <h2>Admin Login</h2>
                                 </div>
                                 <div class="box-login">
                                          <form class="form-login" method="post">
                                                  <fieldset>
                                                           <legend>
                                                                   Sign in to your account
                                                           </legend>
                                                           Please enter your name and password to log
in.<br/>
                                                                   <span style="color:red;"></span>
                                                           <div class="form-group">
                                                                   <span class="input-icon">
                                                                            <input type="text" class="form-
control" name="username" placeholder="Username">
                                                                            <i class="fa fa-user"></i> </span>
```

```
</div>
                                                            <div class="form-group form-actions">
                                                                     <span class="input-icon">
                                                                              <input type="password"
class="form-control password" name="password" placeholder="Password"><i class="fa fa-lock"></i>
                                                                              </span>
                                                            </div>
                                                            <div class="form-actions">
                                                                     <button type="submit" class="btn btn-
primary pull-right" name="submit">
                                                                              Login <i class="fa fa-arrow-circle-
right"></i>
                                                                     </button>
                                                            </div>
                                                    </fieldset>
                                           </form>
                                           <div class="copyright">
                                                    © <span class="current-year"></span><span
class="text-bold text-uppercase"> HMS</span>. <span>All rights reserved</span>
                                           </div>
                                  </div>
                          </div>
                 </div>
                 <script>
                         jQuery(document).ready(function() {
                                  Main.init();
                                  Login.init();
                          });
                 </script>
        </body>
</html>
(responsiveslides.css)
.rslides {
 position: relative;
 list-style: none;
 overflow: hidden;
 padding: 0;
 margin: 0;
.rslides li {
 -webkit-backface-visibility: hidden;
 position: absolute;
 display: none;
 width: 100%;
 left: 0;
 top: 0;
 }
```

```
.rslides li:first-child {
 position: relative;
 display: block;
 float: left;
.rslides img {
         display: block;
         height: auto;
         float: left;
         border: 0;
         width: 100%;
 }
(style.css)
body{
         background:#F8FBFB;
.header{
         background:url(../images/header-bg.png);
.logo{
         float:left;
         margin-top: 14px;
.top-nav{
         float:right;
.top-nav ul li{
         display:inline-block;
         float: left;
         border-left: 1px solid rgb(31, 132, 224);
.top-nav ul li:first-child{
         border-left:none;
.top-nav ul li a{
         font-family: 'Ropa Sans', sans-serif;
         background:#3391E7;
         color: #fff;
         text-transform: uppercase;
         padding: 30px;
         display: block;
.top-nav ul li a:hover{
.top-nav li.active> a, .top-nav li> a:hover {
         background: rgb(50, 133, 209);
         border-left-color:rgb(50, 133, 209);
.contact-form input[type="submit"]:hover{
         color: #000;
```

```
.contact-form input[type="submit"]:active{
        background-color:#000;
.company_address p{
        font-family: Arial, Helvetica, sans-serif;
        padding: 0.2em 0;
        font-size: 0.8125em;
        color: rgb(155, 155, 155);
        line-height: 1.5em;
.company_address p span{
        text-decoration:underline;
        color:#333;
        cursor:pointer;
        font-family: 'Open Sans', sans-serif;
        font-size:1em;
}
.map{
        border:1px solid #C7C7C7;
        margin-bottom:15px;
.contact-form{
        position:relative;
        padding-bottom:30px;
.contact-form div{
        padding:5px 0;
.contact-form span{
        display:block;
        font-size:1em;
        color: rgb(139, 139, 139);
        padding-bottom:5px;
        font-family: 'Ropa Sans', sans-serif;
.image {
        clear: both;
        padding: 0px;
        margin: 0px;
        padding: 2% 0;
        border-bottom: 1px solid rgb(238, 238, 238);
.group:before,
.group:after {
  content:"";
  display:table;
.group:after {
  clear:both;
.group {
  zoom:1;
.grid {
```

```
display: block;
        float:left:
        margin: 0% 0 0% 2.2%;
}
(contact.php)
<?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 href="css/style.css" rel="stylesheet" type="text/css" media="all" />
                 <link href='http://fonts.googleapis.com/css?family=Ropa+Sans' rel='stylesheet' type='text/css'>
        </head>
        <body>
                                  <div class="header">
                                  <div class="wrap">
                                  <!--start-logo-->
                                  <div class="logo">
                 <a href="index.html" style="font-size: 30px;">Hospital Management system</a>
                                  </div>
                                  <div class="top-nav">
                                          <u1>
                                                   <a href="index.html">Home</a>
                                                   cli class="active"><a href="contact.php">contact</a>
                                          </div>
                                  <div class="clear"> </div>
                                                           </div>
                 </div>
                   <div class="clear"> </div>
                  <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>
                                                       500 Lorem Ipsum Dolor Sit,
                                                               22-56-2-9 Sit Amet, Lorem,
                                                               India
                                               Phone:(00) 222 666 444
                                               Fax: (000) 000 00 00 0
                                               Email: <span>info@mycompany.com</span>
                                 </div>
                                </div>
                                <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"</pre>
required="true" value=""></span>
                                                  </div>
                                                  <div>
                                                       <span><label>E-MAIL</label></span>
                                                       <span><input type="email" name="emailid"</pre>
required="ture" value=""></span>
                                                  </div>
                                                  <div>
                                                       <span><label>MOBILE.NO</label></span>
                                                       <span><input type="text" name="mobileno"</pre>
required="true" value=""></span>
                                                  </div>
                                                  <div>
                                                       <span><label>Description</label></span>
                                                       <span><textarea name="description"</pre>
required="true"> </textarea></span>
                                                  </div>
                                                 <div>
                                                               <span><input type="submit"
name="submit" value="Submit"></span>
                                                 </div>
                                          </form>
                                  </div>
                                </div>
                        </div>
                                <div class="clear"> </div>
        </div>
        <div class="clear"> </div>
                       </div>
           <div class="clear"> </div>
                 <div class="footer">
                        <div class="wrap">
                       <div class="footer-left">
                                       ul>
                                               <a href="index.html">Home</a>
                                               <a href="contact.php">contact</a>
                                        </div>
```

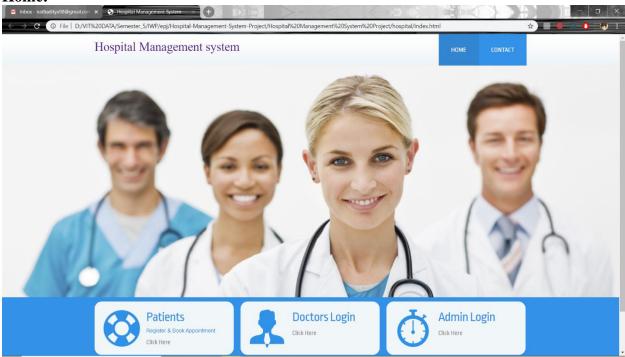
```
<div class="clear"> </div>
                   </div>
                   </div>
        </body>
</html>
(logout.php)
<?php
session start();
include('include/config.php');
$_SESSION['login']=="";
date_default_timezone_set('Asia/Kolkata');
$ldate=date('d-m-Y h:i:s A', time());
mysqli_query($con,"UPDATE userlog SET logout = '$ldate' WHERE uid = "".$_SESSION['id']."' ORDER BY id
DESC LIMIT 1");
session_unset();
//session destroy();
$_SESSION['errmsg']="You have successfully logout";
<script language="javascript">
document.location="../index.html";
</script>
(getdoctor.php)
include('include/config.php');
if(!empty($_POST["specilizationid"]))
$sql=mysqli_query($con,"select doctorName,id from doctors where
specilization="".$_POST['specilizationid'].""");?>
<option selected="selected">Select Doctor </option>
<?php
while($row=mysqli_fetch_array($sql))
 <option value="<?php echo htmlentities($row['id']); ?>"><?php echo htmlentities($row['doctorName']);</pre>
?></option>
 <?php
if(!empty($_POST["doctor"]))
$sql=mysqli_query($con,"select docFees from doctors where id="".$_POST['doctor'].""");
while($row=mysqli fetch array($sql))
<option value="<?php echo htmlentities($row['docFees']); ?>"><?php echo htmlentities($row['docFees']);</pre>
?></option>
 <?php
```

```
}
?>
(checkavailability.php)
<?php
require_once("include/config.php");
if(!empty($_POST["email"])) {
        $email= $_POST["email"];
                 $result =mysqli_query($con,"SELECT email FROM users WHERE email="$email"");
                 $count=mysqli_num_rows($result);
if($count>0)
echo "<span style='color:red'> Email already exists .</span>";
echo "<script>$('#submit').prop('disabled',true);</script>";
} else{
        echo "<span style='color:green'> Email available for Registration .</span>";
echo "<script>$('#submit').prop('disabled',false);</script>";
?>
```

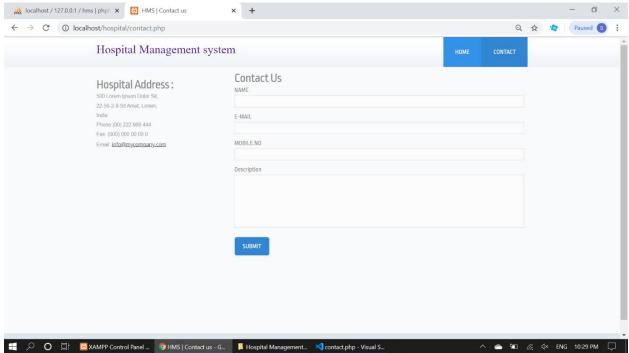
IV. RESULTS

Browser Window(s) –

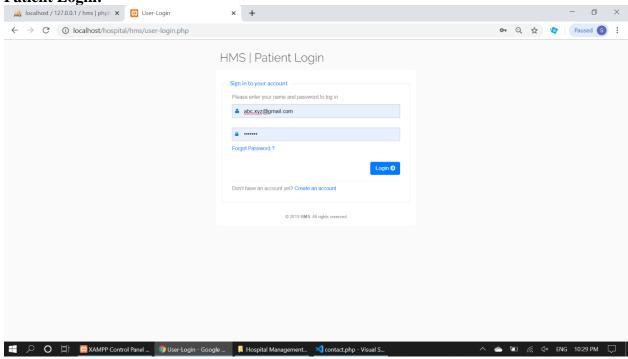
Home:



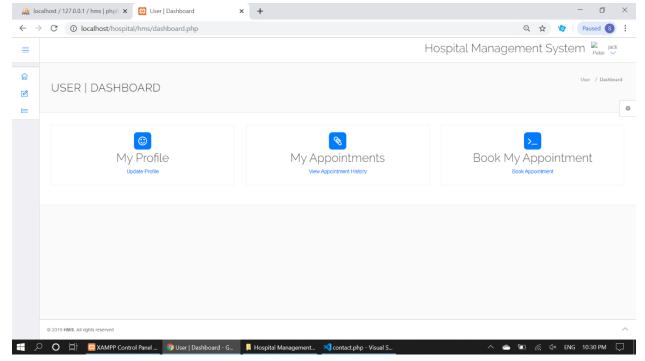
Contact:

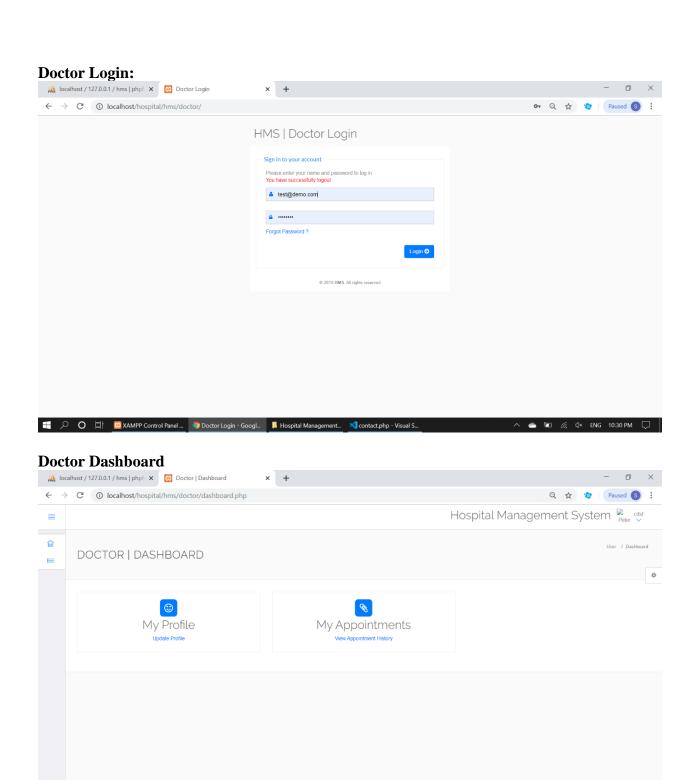


Patient Login:



Patient Dashboard:

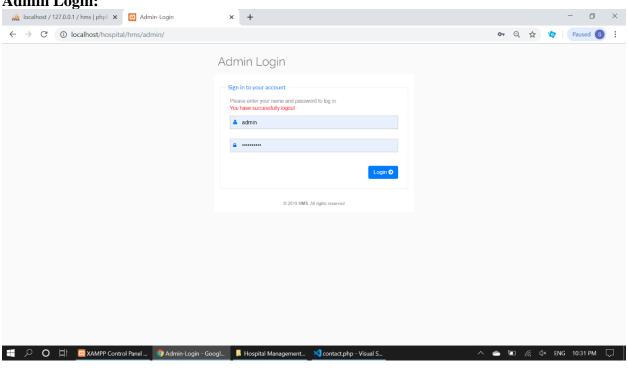




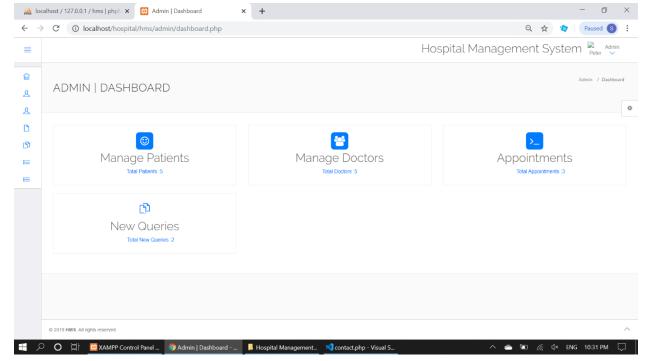
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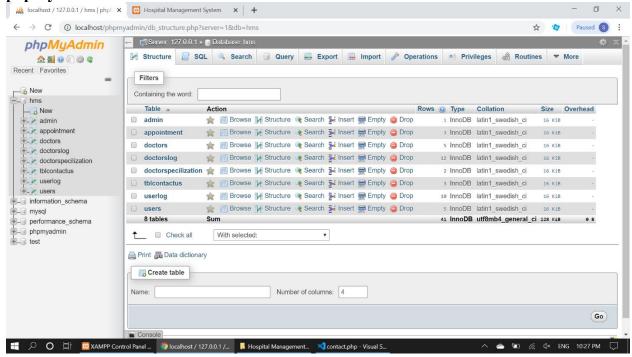




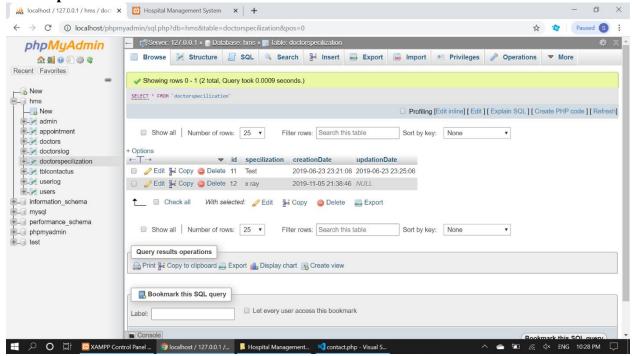
Admin Dashboard:

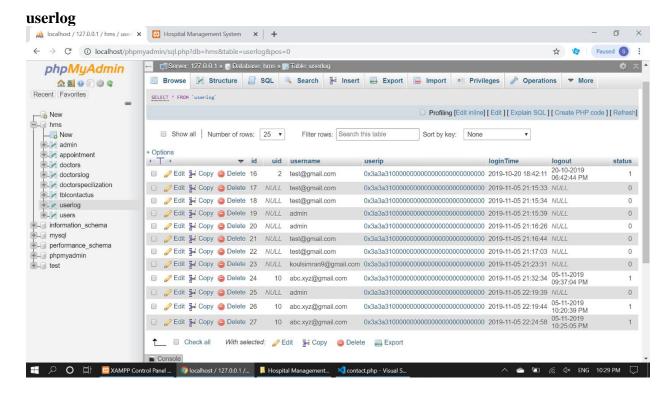


phpMyAdmin



doctorspecilization





V. CONCLUSION

Taking into account all the mentioned details, we can make the conclusion that the hospital management system is the inevitable part of the lifecycle of the modern medical institution. It automates numerous daily operations and enables smooth interactions of the users. Developing the hospital system software is a great opportunity to create the distinct, efficient and fast delivering healthcare model. Implementation of hospital management system project helps to store all the kinds of records, provide coordination and user communication, implement policies, improve day-to-day operations, arrange the supply chain, manage financial and human resources, and market hospital services. This beneficial decision covers the needs of the patients, staff and hospital authorities and simplifies their interactions. It has become the usual approach to manage the hospital. Many clinics have already experienced its advantages and continue developing new hospital management system project. It is all about the modernizing a hospital through use of technology. Computers helps in it and take over the manual system for quick and easy functioning. This hospital management system is a quite the reliable and is proven on many stages. All the basic requirements of the hospital are provided in the hospital in order to manage it perfectly and large amount of data can also be stored. It gives many facilities like searching for the detail of patient, billing facilities as well as the creation of test reports. So, it is an important system for modern days.

Thus, Hospital Management System which intern provide healthcare management is successfully created.