

HOSPITAL MANAGEMENT PORTAL (HMS)

A PROJECT REPORT

Submitted in partial fulfillment for the award of the degree of
MASTER OF COMPUTER APPLICATIONS

BY

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BP181058L

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**PG AND RESEARCH DEPARTMENT OF COMPUTER
APPLICATIONS**

SACRED HEART COLLEGE (AUTONOMOUS), TirupatturDT

April 2019

BONAFIDE CERTIFICATE

Certified that this project report “**HOSPITAL MANAGEMENT PORTAL (HMS)**” is the bonafide work of “**SYED YUNUS S [BP181058L]**” who carried out the project work under my guidance and supervision.

Signature of the HOD

Signature of the Guide

Submitted for the viva-voce examination held on _____.

Examiner 1

Examiner 2

ACKNOWLEDGEMENT

All deeds can be successful only with advice and support from many well-wishers. I would like to express my gratitude to all of them. First of all, I send my kind prayer to the **Almighty God** and my Family and my Staffs and my friends for giving me the strength, courage and determination. Not only in the pursuance of this project but also in the way in my life.

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(SYED YUNUS S)

PG AND RESEARCH DEPARTMENT OF COMPUTER APPLICATIONS

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Tirupattur – 635601, Vellore District, Tamil Nadu



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Place: Tirupattur

Date :

Prof. DR A. GEORGE LOUIS RAJA

Project Guide

DR. A. GEORGE LOUIS RAJA

Head of the Department

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ABSTRACT

The main objectives of the hospital management portal is to computerize the maintenance of the patient details and appointment section in the hospital include employees, doctors, patient and appointment and etc it also includes the details about the laboratory system . It will also contain doctor's information and will digitalize the whole billing system. My software has the facility to give a unique id for every patient and stores the details of every patient and staff automatically. It includes a search facility to know the current status of each room. It can be entered using a username and password. It is accessible either by an administrator only they can add data into the database the data can be retrieved easily and adds Chatbot to make appointments

1. INTRODUCTION

Hospital management portal will developing the online website to the patients need it will reduce the timing to the user. Nowadays the world is full of digital world so we include online appointment booking process and user can consume there timing and also they can done all the process relevant to the user. So it will reduce cost and time to the user.

2.USER REQUIREMENT SPECIFICATIONS

PURPOSE

The proposed idea fundamentally used for the doctors and patients can easily view their attendance and they can download their appointments through their login page. they can checks the faculties of hospital. The work as to be done soon as possible.

SCOPE

We characterize that we can apply online appointments through this website and it will consider in aright manner.

It will help to the patients view the full details and hospital structure in this website and speciality and facility of our hospital.

USER GROUP

This site is accessed by multitype of user

- o DOCTOR
- o PATIENT
- o STAFF

DOCTOR

1. Login
2. profile
3. My appointments
4. attendance

LOGIN

The users can login in the site utilizing username and password and access to the site.

PROFILE

The users can view the information the given information are correct or incorrect if its incorrect they can inform to admin.

MY APPOINTMENTS

The user can check the appointments and view the patient details

ATTENDANCE

The user can view the attendance details.

PATIENT

1. Login
2. profile
3. My appointments details
4. payments

LOGIN

The users can login in the site utilizing username and password and access to the site.

PROFILE

The users can view the information the given information are correct or incorrect if its incorrect they can inform to admin.

MY APPOINTMENTS

The user can check the doctors and view the appointment details

PAYMENTS

The patients check the hospital bills and sending the payments to online transactions.

ADMIN

1. Login
2. Add doctors
3. Patient appointment view
4. Doctor attendance.

LOGIN

The users can login in the site utilizing username and password and access to the site.

ADD DOCTORS

The admin can be add the doctors and edit the profile newly given username and password.

PATIENT APPOINTMENT VIEW

The admin can be check the appointments of the patients with sort of date.

DOCTORS ATTENDANCE

The admin can be update the daily attendance of doctors

2.1 MODULE DESCRIPTION

List of Modules

- HOME
- ABOUT
- CONTACT
- APPOINTMENTS
- DOCTORS

ABOUT

This User can view the information of this hospital facilities and infrastructure what are inside are providing 24/7 ambulance facility and emergency department very important to patients.

They also facilities in hospital ECG machines, Ct-scan, dental machines, X-rays and blood bank all are available

CONTACT

Contact section is manually user to report about our hospital through the website when they view our hospital website.

User can give any suggestion to add in our hospital facilities are other activities to take step to develop that thing what you have suggested.

APPOINTMENTS

This user go a here hospital website and very easily to book a appointment in a online process. user can book appointments for their required date and time

In case of patient will be book appointment easily to fill our details It is accessible either by an administrator only they can add data into the database the data can be retrieved easily and add Chabot to make a appointments

DOCTORS

The user can see our doctors profile and about her specialty details ,each time a user visits a multiple doctors for various date and times

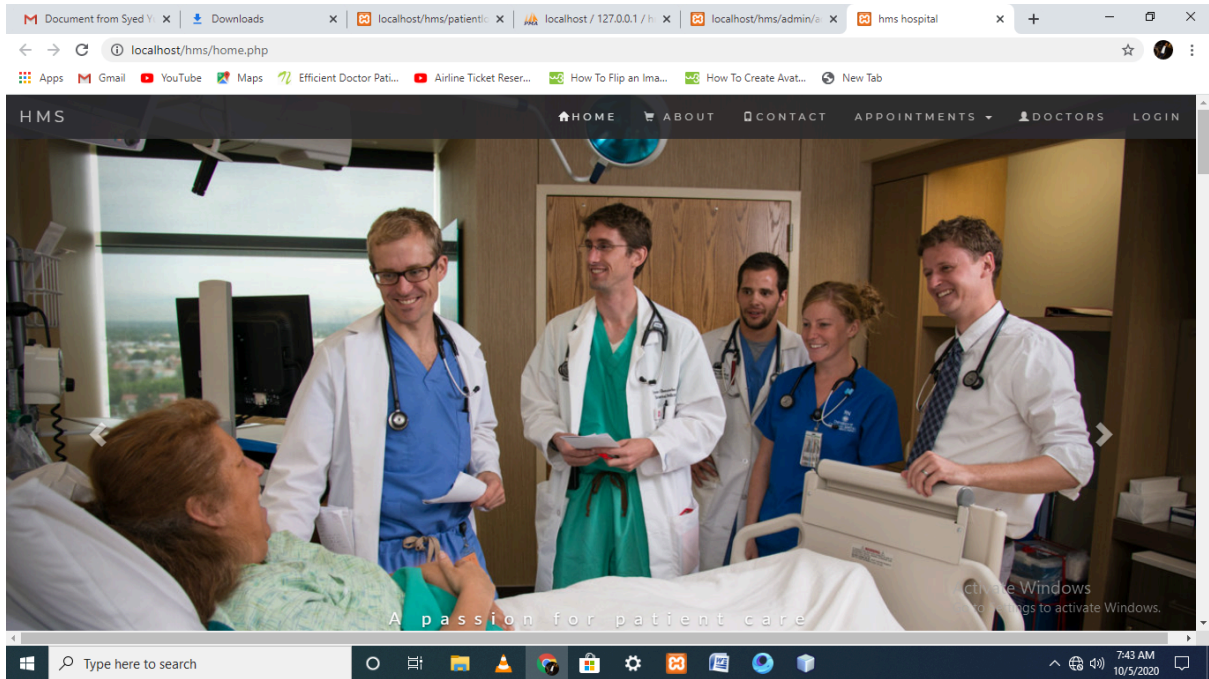
2.2 HARDWARE AND SOFTWARE SPECIFICATION

- Operating system : Windows 7 or Above.
- Processor : Pentium IV and above.
- RAM : 1GB or Above.
- Hard Disk : 40 GB or Above.
- Front End : PHP,JAVASCRIPT,JQUERY

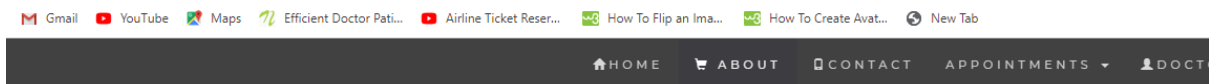
- Coding Language : PHP
- Backend : SQL Server

3.USER INTERFACE DESIGN

HOME



ABOUT



ABOUT US

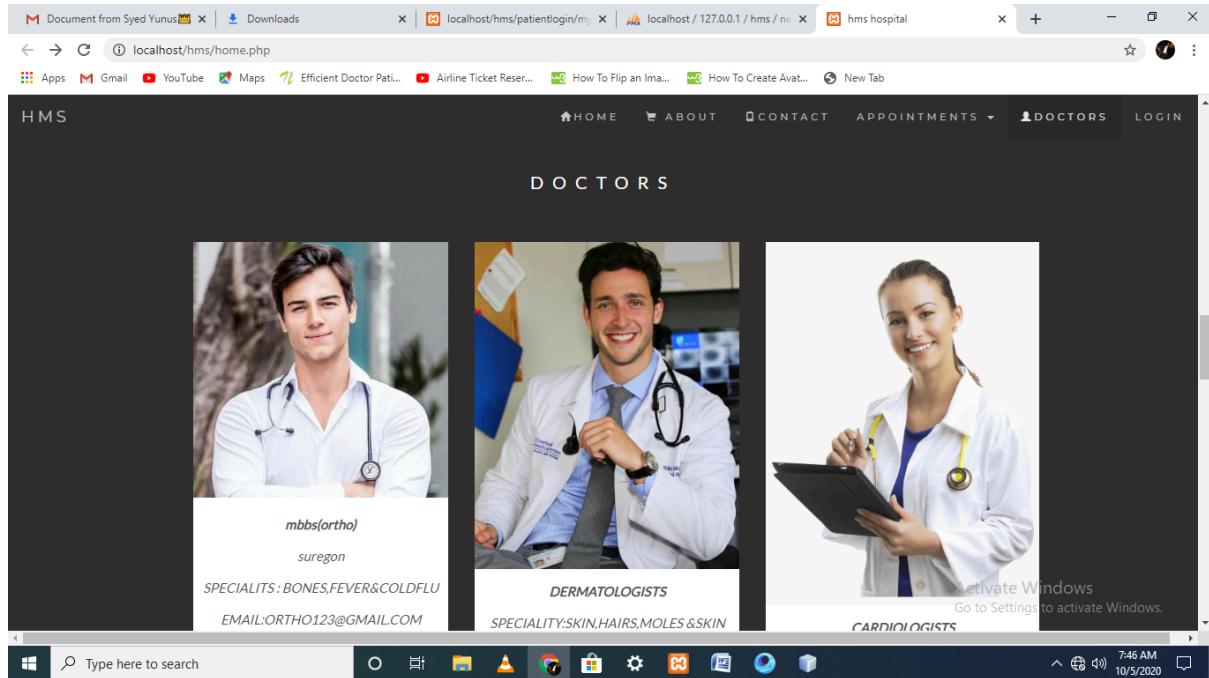
We love patients!

- Emergency department 24hours/7days a week with highly qualified staff (doctors and nurses) with full equipment including ventilator, D.C. Shock, monitors, crush car and minor operation room.
- Fully equipped Operation Department including 2 operation theatres, recovery room.
- Intensive care unit (I.C.U) with full equipments including one of the most advanced ventilators monitors with 6 waves (to measure CO2 and invasive blood gases).
- Laboratory department with highly advanced technique and under supervision of a professor of clinical pathology.
- Radiology department including X-ray and ultrasound (Doppler, Duplex, trans-vaginal, 3D, 4D, echocardiography) and C-T scan.
- Incubators for new born with ventilators.
- Women children health care unit.
- Plastic surgery operations and Cosmetology.
- Out-patient Clinics.
- In-patient department: single, double and common rooms with full comfortable atmosphere.
- Ambulance car (fully equipped)..

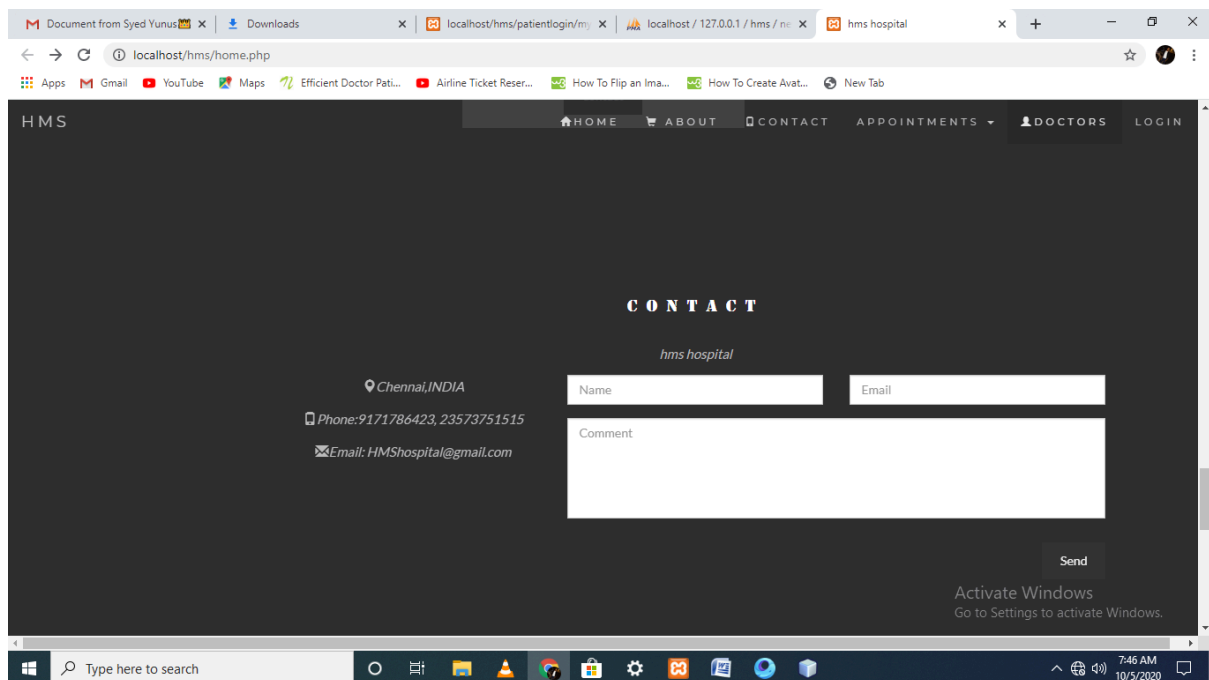
speciality&facilities



DOCTORS



CONTACT



4. SYSTEM DESIGN

4.1 Database design

The database table specifies the field name, data type, data width and the constraints of each module. The following symbols are used to denote the keys in the database tables.

APPOINTMENT BOOKING

Field Name	Data type	Constraint	Description
patient name	Varchar(50)	Not null	Value of the name
Email id	Varchar(50)	Not null	Value of the emailed
Age	Varchar(50)	Not Null	Value of the age
Gender	Varchar(50)	Not null	Value of the gender
Dob	Date	Not null	Value of the dob
Specialty	Varchar(50)	Not null	Value of the specialty
Contact no	Varchar(50)	Not Null	Value of the contact no
Date	Date	Not Null	Value of the date
address	Varchar(50)	Not null	Value of the address
disease	Varchar(50)	Not null	Value of the disease

ADD DOCTORS

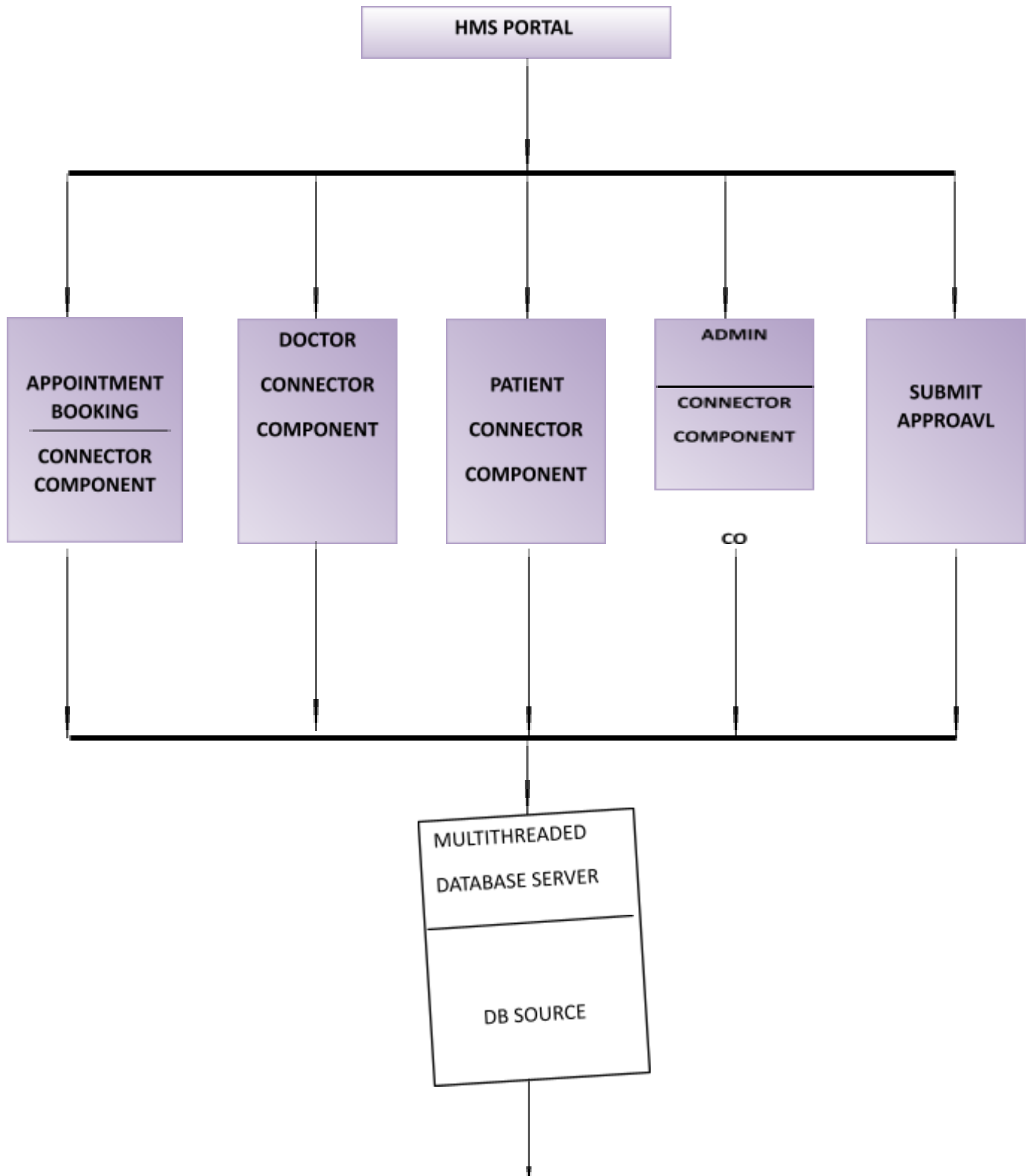
Field Name	Data type	Constraint	Description
------------	-----------	------------	-------------

Doctor name	Varchar(50)	Not null	Value of the name
dob	Varchar(50)	Not Null	Value of the dob
Email id	Varchar(50)	Not Null	Value of the email id
Specialty	Varchar(50)	Not Null	Value of the specialty
Mobile no	Varchar(50)	Not Null	Value of the mobile no

CONTACT

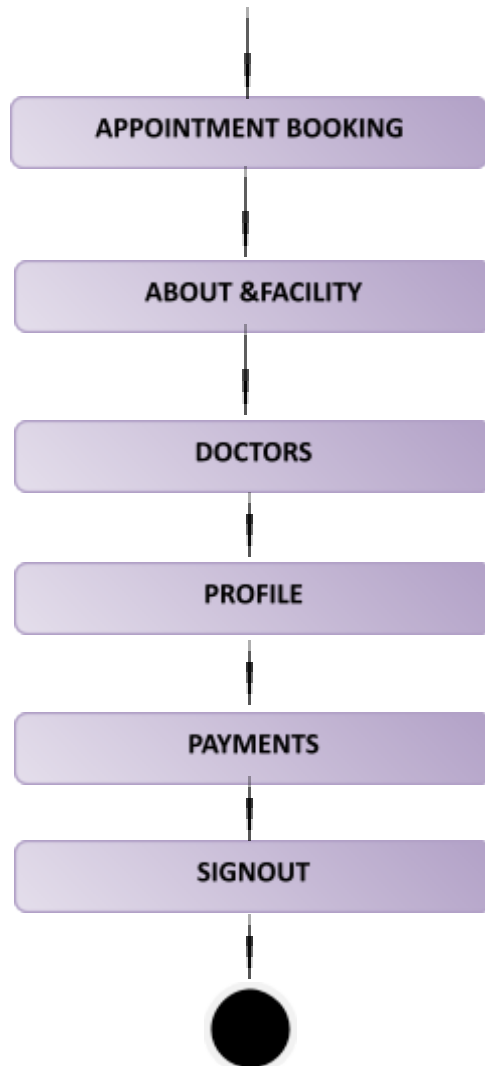
Field Name	Data type	Constraints	Description
Name	Varchar(50)	Not null	Value of the name
Mail id	Varchar(50)	Not Null	Value of the mail id
district	Varchar(50)	Not Null	Value of the district
Subject	Varchar(50)	Not null	Value of the subject

4.2 Architecture Diagram

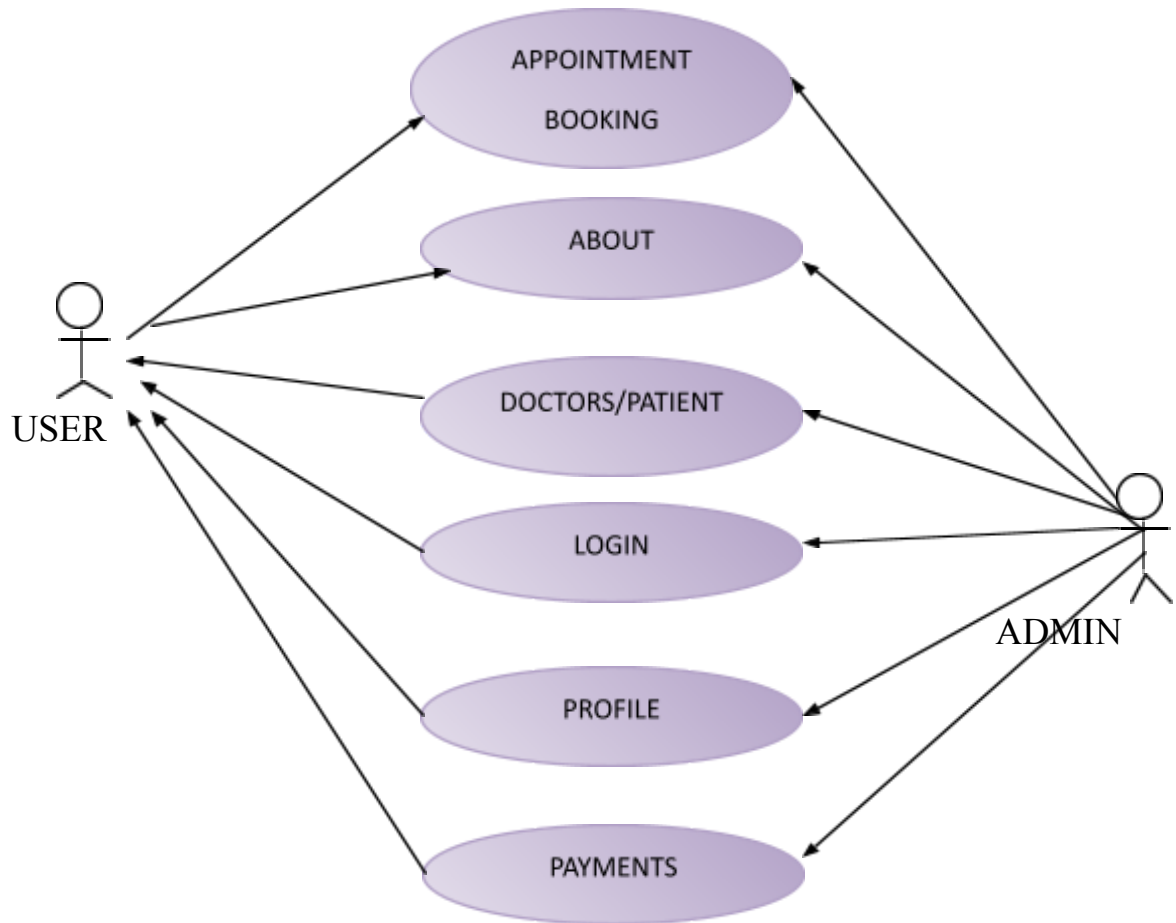


DATABASE

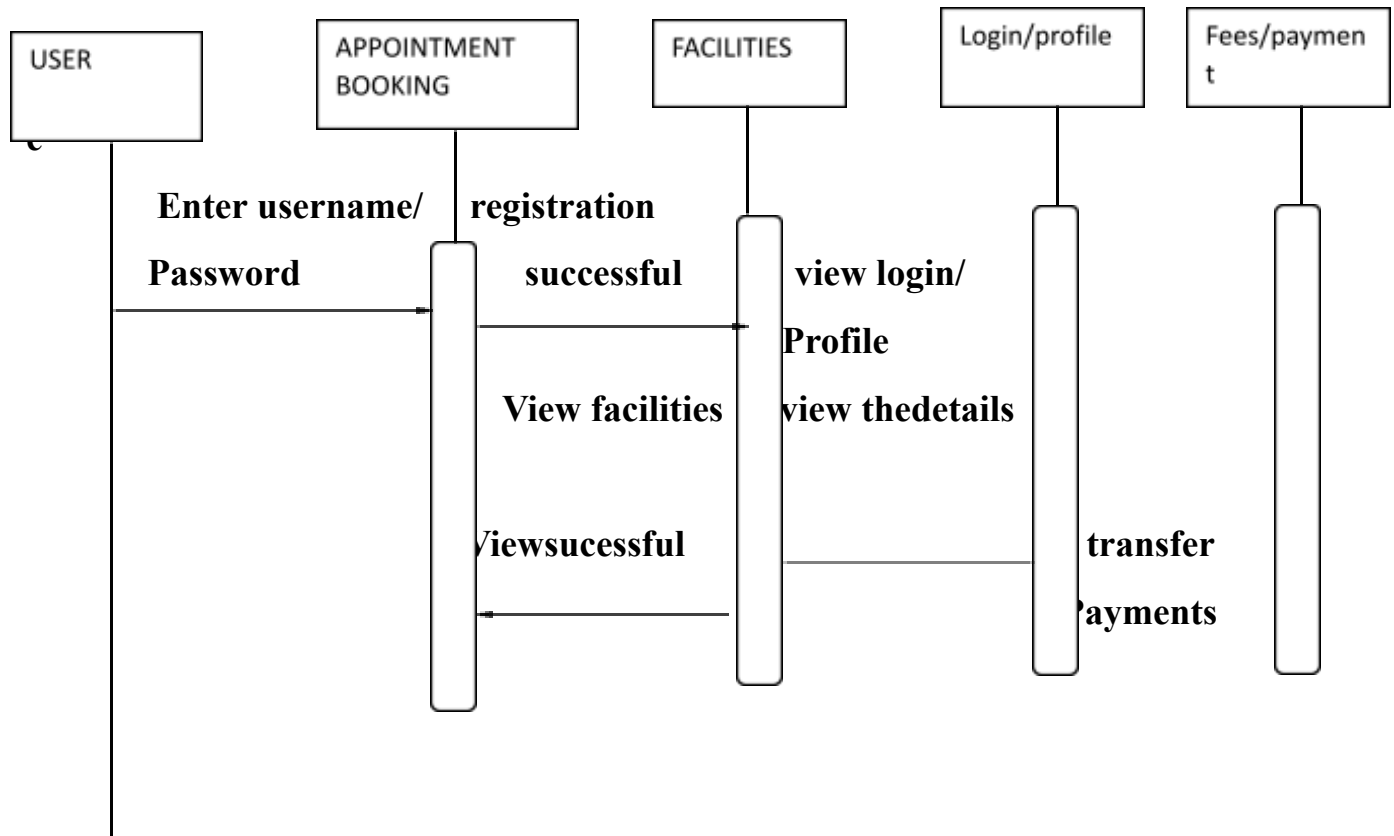
4.3 Process Flow Diagram



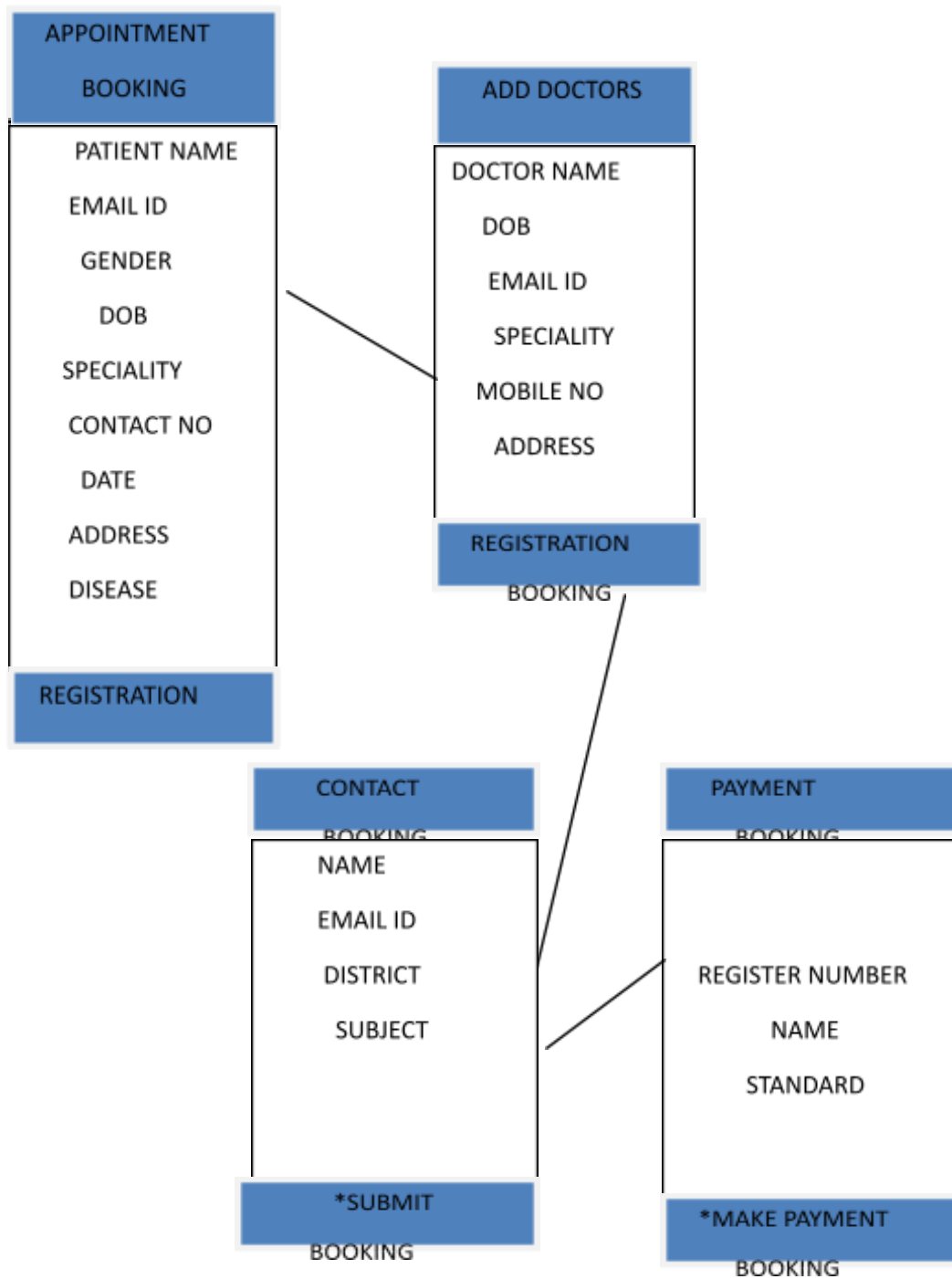
4.4 Use Case Diagram



4.5 Sequence Diagram



4.6 Class Diagram:



5. TEST CASE DESIGN

Table

Modification Details				
Module		User Registration		
Functionality		Register		
Test Case		TC-1		
Pre-Condition		To register a user details		
Scenario		To store the user details to the database		
Description		Test the all field values		
S.No	Field Name	Test Condition	Test Data	Exception
1	Patient name	Numeric values not allowed	patient name of the user	Valid information will be entry.
2	Email id	Empty textbox not allowed	Email id of the user	Valid information will be entry
3	age	Empty textbox not allowed	Age of the user	Valid information will be entry.
4	gender	Empty textbox not allowed	Password of the user	Valid information will be entry.
5	Dob	Empty textbox not allowed	Date of Birth of the user	Valid information will be entry
6	specialty	String values not allowed	specialty of the user	Valid information will be entry
7	contact	Empty textbox not allowed	Contact of the user	Valid information will be entry
8	address	Empty textbox not allowed	Address of the user	Valid information will be entry
9	disease	Select the security question	disease of the user	Valid information will be stored

Modification Details	
Module	Document Uploading
Functionality	Upload document
Test Case	TC-2
Pre-Condition	To upload a document

Scenario		To upload a user document to the database		
Description		Test the all field values		
S.No	Field Name	Test Condition	Test Data	Exception
1	Name of the card	Numeric values not allowed	Name of the user	Valid information will be entry.
2	Credit card number	Numeric values not allowed	Credit card number of the user	Valid information will be entry
3	Exp month	Numeric values not allowed	Exp month of the user	Valid information will be entry
4	Exp year	Numeric values not allowed	Exp year of the user	Valid information will be entry
5	cvv	Numeric values not allowed	Cvv of the user	Valid information will be entry

CONCLUSION

Hospital management portal is a online website which is helpful for patient as well as the hospital authorizes in the current system all the activities are done manually.

We here relate the faculties with doctors where they can discuss the problem and interact each other by technically by providing sms etc. online payment gateway has been provided and patients can pay the cost the provided helpiness may help the viewers and users to interact easily about any information.


BIBLIOGRAPHY



<https://www.c-sharpcorner.com/blogs/file-upload-application-relationshipmodel>

<https://www.youtube.com/watch?v=irF6Zomjxwc>

https://www.youtube.com/wikipedia_wiki?v=irF6Zomjxwc

APPENDIX

Development phase	3 Months					Duration
	2 weeks	3 weeks	6 weeks	2 week	3 weeks	
Requirement Gathering & Analysis						9 days

Designing		11 days
Coding		42 days
Testing		14 days
Implementation		14 days
Documentation		Parallel
Total(Months/Days)	3 Months	

B.SAMPLE CODING

Appointment booking:

```

<?php
include("config.php");
error_reporting(E_ERROR);
if(isset($_POST['submit']))
{
    $patientname = $_POST['patientname'];
    $emailid = $_POST['emailid'];
    $age = $_POST['age'];
    $gender = $_POST['gender'];
    $dob = $_POST['dob'];
    $speciality = $_POST['speciality'];
    $contactno = $_POST['contactno'];
    $date = $_POST['date'];
    $address = $_POST['address'];
    $disease = $_POST['disease'];

    $query="INSERT INTO newappointments(patientname,emailid,
age,gender,dob,speciality,contactno,date,address,disease,status) VALUES
('".$_patientname."','".$emailid."','".$age."','".$gender."','".$dob."','".$sp
eciality."','".$contactno."','".$date."','".$address."','".$disease."','".$0)";
    echo $query;
    $result = mysqli_query($con,$query);

    if($result==TRUE)
    {
        echo "your record has been sucessfully stored.....";
    }
    else
    {
        echo "connection failure";
    }

}

?>

<html>
<head>
<meta charset="UTF-8">

```

```

<title></title>
<link rel="stylesheet" type="text/css" href="css/bootstrap.css">
</head>
<body>
  <div class="he">
    <div class="container">
      <h1 style="font-family:stencil">new appointment
booking</h1><br>
      <br>

      <form action="appointmentbookingpdf.php" method="post"
      <div class="form-group">
        <div class="row">
          <label class="col-3">patient Name</label>
          <input type="text" name="patientname"
class="form-control col-3" placeholder="patient name"/>

          <label class="col-3">emailid</label>
          <input type="text" name="emailid" class="form-control
col-3" placeholder="emailid....."/>
        </div>

        <div class="row">

          <label class="col-3">age</label>
          <input type="text" name="age" class="form-control
col-3" style="text-align: center;"></br>

          <label class="col-3">Gender</label>
          <input type="radio" name="gender" class="col-1"
value="male">Male
          <input type="radio" name="gender" class="col-1"
value="female">Female

        </div>

        <div class="row">

          <label class="col-3">dob</label>

```

```
<input type="date" name="dob" class="form-control
col-3" style="text-align: center;"></br>
```

```
<label class="col-3" style>speciality</label>
```

```
<select class="form-control col-3"
name="speciality" style="font-family: stencil;">
  <option></option>
  <option>cardiologists</option>
  <option>ortho</option>
  <option>mbbs</option>
  <option>dermatologists</option>
  <option>cardiologists</option>
  <option>gastroenterologists</option>
  <option>dental</option>
</select>
```

```
</div>
```

```
<div class="row">
```

```
<label class="col-3">Contact No</label>
<input type="text" name="contactno"
class="form-control col-3" style="border-color: yellowgreen"
placeholder="Contact No">
```

```
<label class="col-3">date</label>
<input type="date" name="date" class="form-control
col-3" style="text-align: center;"></br>
```

```
</div>
```

```
<div class="row">
```

```
<label class="col-3">Address</label>
```

```
<input type="text" name="address" class="form-control col-3" style="height:70px;width: 200px;" placeholder="Address">
```

```
<label class="col-3">disease</label>
```

```
<input type="text" name="disease" class="form-control col-3" style="height: 40px;width:80px;" placeholder="disease" required="">
```

```
</div>
```

```
</div>
```

```
<div class="row">
```

```
<input type="submit" name="dbs" value="pdf" class="btn arrow col-3" >
```

```
<input type="submit" name="submit" value="Save" class="btn btn-success col-3">
```

```
<div class="">
```

```
</div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

PAYMENT CODE:

```
<?php  
session_start();  
include '../config.php';
```

```

error_reporting(E_ERROR);
if (isset($_POST['submit'])) {
    $fullname = $_POST['fullname'];
    $email = $_POST['email'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $phone = $_POST['phone'];

    $query = "INSERT INTO mypayments
(fullname,email,address,city,phone) VALUES ('" . $fullname . "','" . $email
. "','" . $address . "','" . $city . "','" . $phone . "')";
    $result = mysqli_query($con, $query);
    while(mysqli_row_fetch_array($result)){
        $email = $row['email'];
    }
    $_emailname=$_SESSION['email'];

    if ($result == TRUE) {

        echo "Your Record Has Been Successfully Stored.....!";
    } else {
        echo "Data Not Inserted.....!";
    }
}
?>

```

```

<!DOCTYPE html>
<html>
    <head>
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <!--<link rel="stylesheet" href="Css/mackpayment.css">-->
        <style>
            body {
                font-family: sans-serif;
                font-size: 17px;
                padding: 5px;
            }

```

```
* {
  box-sizing: border-box;
}

.row {
  display: -ms-flexbox;
  display: flex;
  -ms-flex-wrap: wrap;
  flex-wrap: wrap;
  /*margin: 0 19px;*/
}

.col-75 {
  -ms-flex: 75%;
  flex: 75%;
}

.col-75 {
  padding: 0 6px;
}

.container {
  background-color: #f2f2f2;
  padding: 5px 20px 15px 20px;
  border: 1px solid lightgrey;
  border-radius: 5px;
  margin-left: 350px;
  margin-top: 10px;
  margin-right: 10px;
}

input[type=text] {
  width: 90%;
  margin-bottom: 3%;
  padding: 12px;
  border: 1px solid #ccc;
  border-radius: 2px;
}

label {
  margin-bottom: 10px;
  display: block;
}
```

```
.icon-container {  
  margin-bottom: 20px;  
  margin-right: auto;  
  padding: 7px 0;  
  font-size: 24px;  
}  
  
.btn {  
  background-color: #4CAF50;  
  color: white;  
  padding: 12px;  
  margin: 10px 0;  
  border: none;  
  width: 50%;  
  border-radius: 3px;  
  cursor: pointer;  
  font-size: 17px;  
  margin-left: 200px;  
}  
  
.btn:hover {  
  
  background-color: #45a049;  
}  
  
a {  
  color: #2196F3;  
}  
  
hr {  
  border: 1px solid lightgrey;  
}  
  
.col-25 {  
  margin-bottom: 10px;  
}  
  
span.price {  
  float: right;  
  color: grey;  
}  
  
@media (max-width: 600px) {  
  .row {  
    flex-direction: column-reverse;
```

```

    }

    }
</style>
</head>
<body>
  <div class="row">
    <div>
      <div class="container">
        <form action="mypaymentpdf.php" method="post">

          <div class="row" >
            <div class="col-15">
              <h3>Billing Address</h3>
              <label for="fname">Full Name</label>
              <input type="text" id="fullname" name="fullname"
required="true" placeholder="xxxx">
              <label for="email"> Email</label>
              <input type="text" id="email" name="email"
required="true" placeholder="enter ur email">
              <label for="adr"> Address</label>
              <input type="text" id="address" name="address"
required="true" placeholder="yyyy">
              <label for="city"> City</label>
              <input type="text" id="city" name="city"
required="true" placeholder="www">
              <label for="phone">Phone</label>
              <input type="text" id="phone" name="phone"
required="true" maxlength="10" placeholder="12345-67890">
              <div class="row">
                <div class="col-15">
                  </div>
                </div>
              </div>
            <div class="col-15">
              <h3>Payment</h3>
              <!--<label for="fname">Accepted Cards</label>-->

              <label for="cname">Name on Card</label>
              <input type="text" id="cname" name="cardname"
required="true" placeholder="John More Doe">
              <label for="ccnum">Credit card number</label>

```

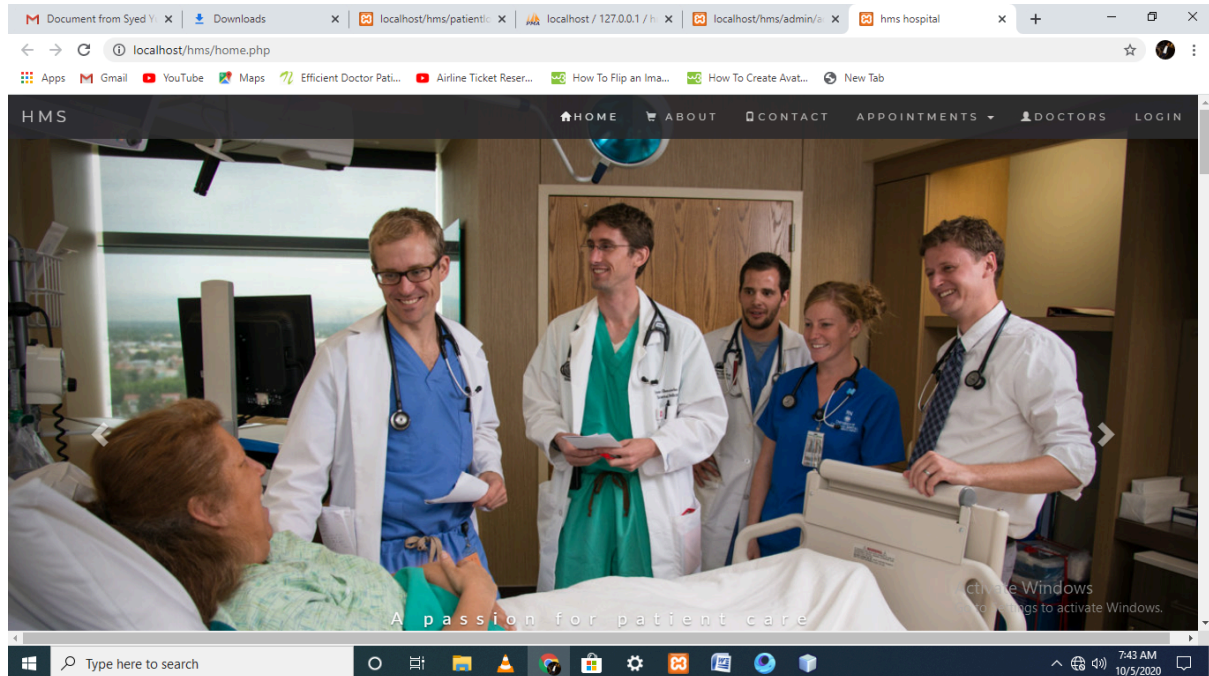
```

        <input type="text" id="ccnum"
name="cardnumber"required="true" maxlength="19"
placeholder="1111-2222-3333-4444" onkeypress="return(event.charCode
!= 8 && event.charCode == 0 || (event.charCode >= 48 && event.charCode
<= 57))">
        <label for="expmonth">Exp Month</label>
        <input type="text" id="expmonth" name="expmonth"
required="true" maxlength="5" placeholder="September"
onkeypress="return(event.charCode != 8 && event.charCode == 0 ||
(event.charCode >= 48 && event.charCode <= 57))">
        <div class="row">
            <div class="col-10">
                <label for="expyear">Exp Year</label>
                <input type="text" id="expyear" name="expyear"
required="true" maxlength="4" placeholder="2018"
onkeypress="return(event.charCode != 8 && event.charCode == 0 ||
(event.charCode >= 48 && event.charCode <= 57))">
            </div>
            <div class="col-10">
                <label for="cvv">CVV</label>
                <input type="text" id="cvv" name="cvv"
placeholder="enter cvv" required="true"
                    maxlength="3" pattern="[0-9]{3}"
title="Please Enter Number Format Only"
onkeypress="return(event.charCode != 8 && event.charCode == 0 ||
(event.charCode >= 48 && event.charCode <= 57))">
            </div>
        </div>
        </div>
        </div>
        <div>
            <input type="submit" name="submit" value="Continue to
checkout" class="btn">
        </div>
    </form>
</div>
</div>
</div>
</body>
</html>

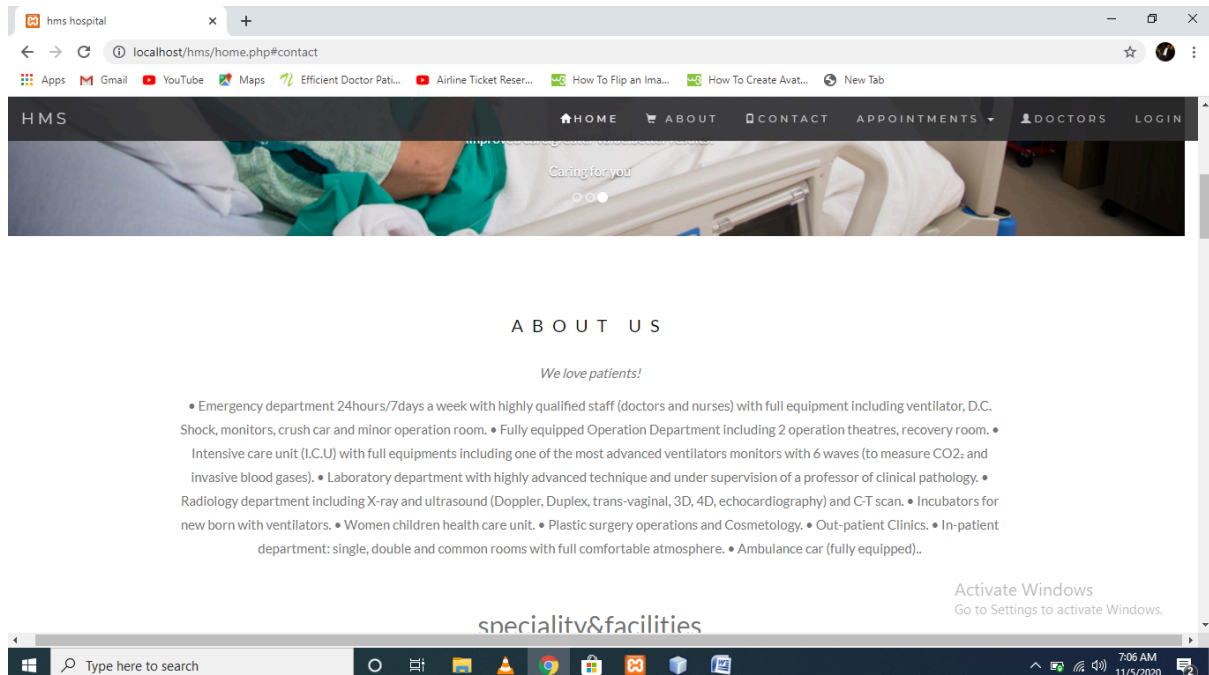
```

A. INPUT / OUTPUT SCREEN

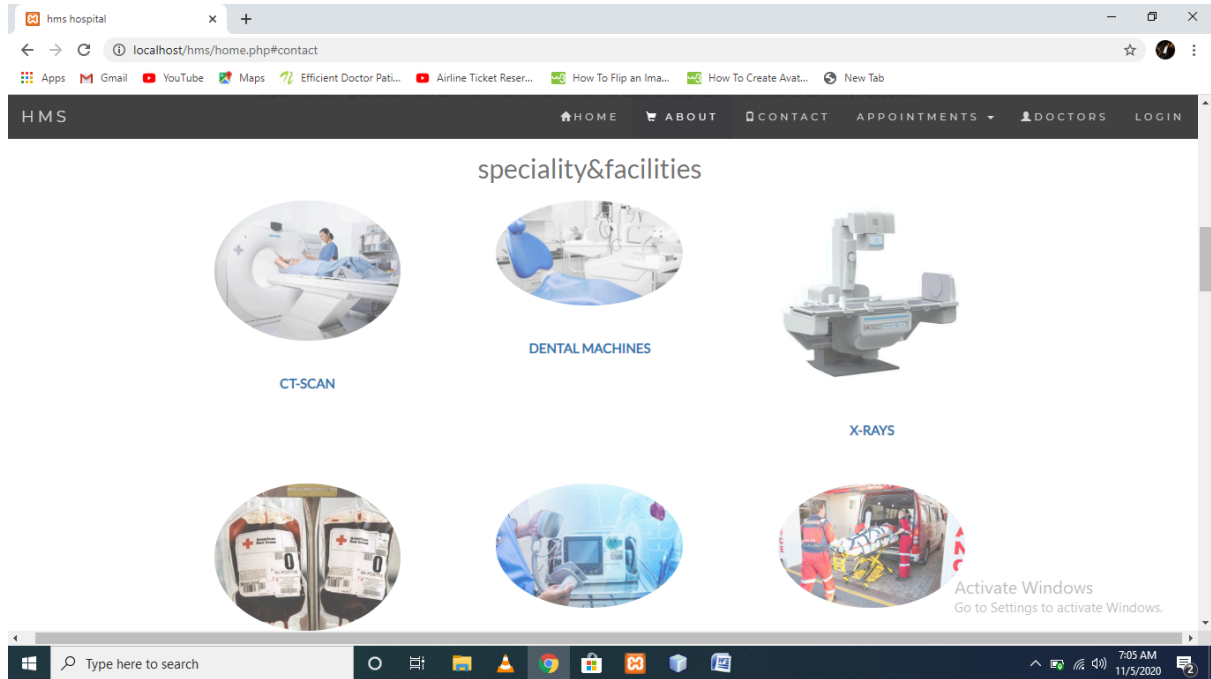
HOME:



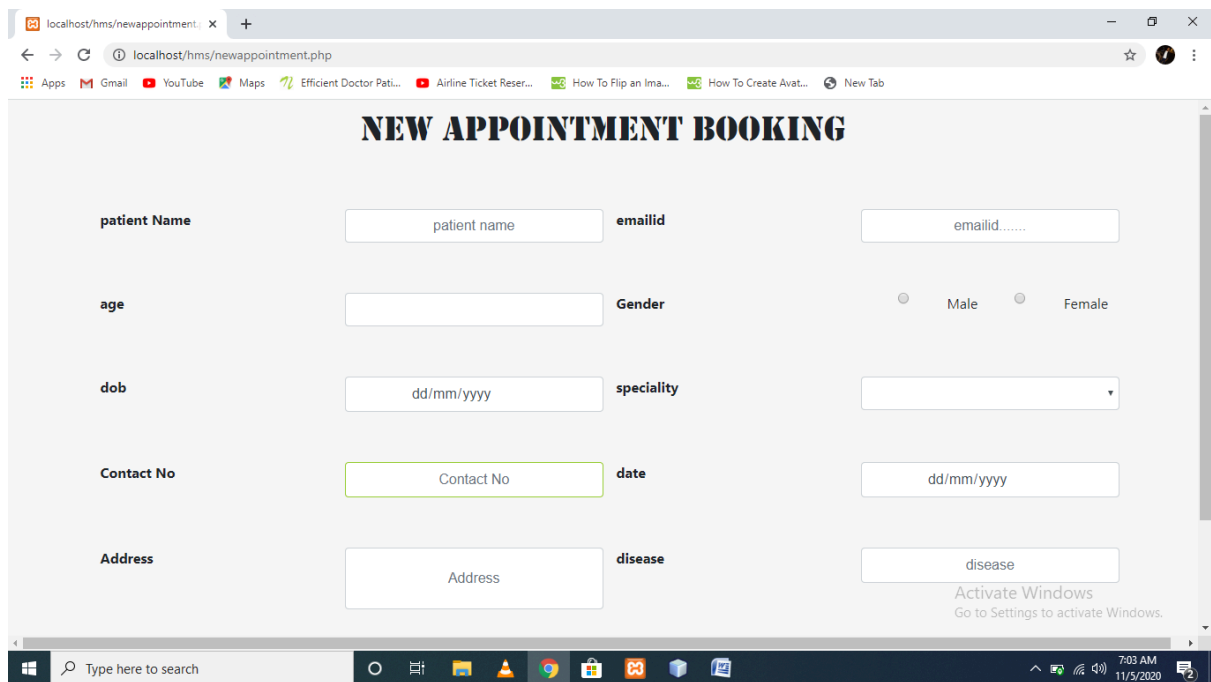
ABOUT:



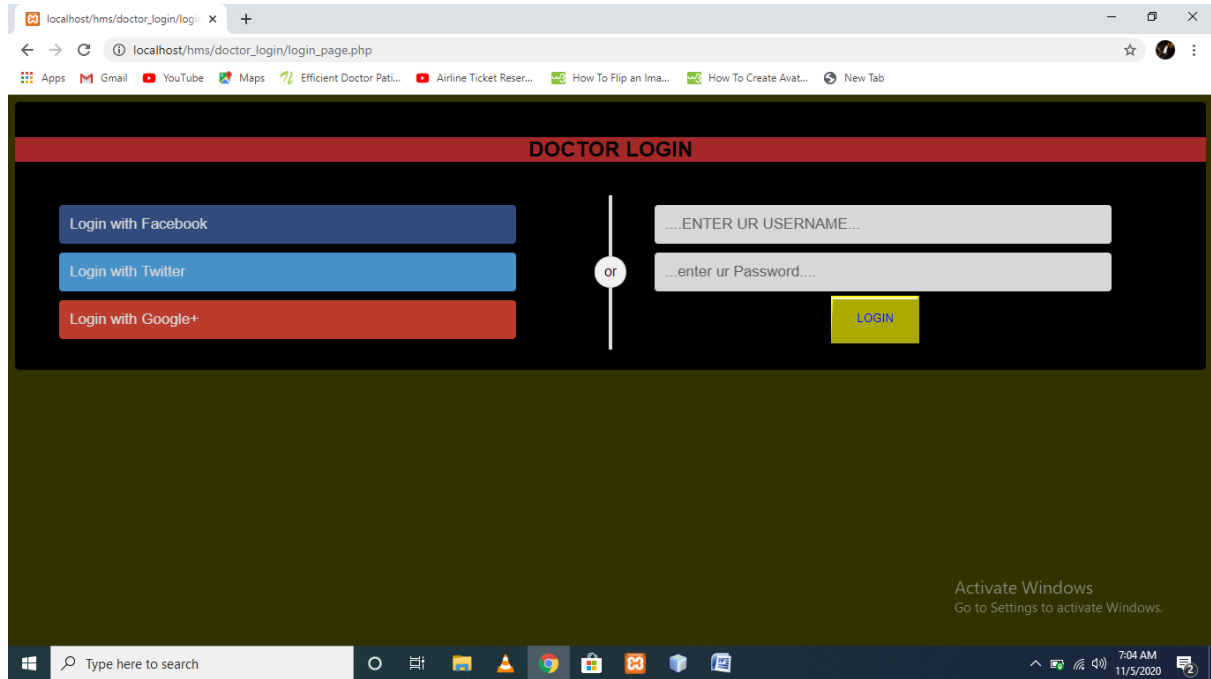
FACILITY:



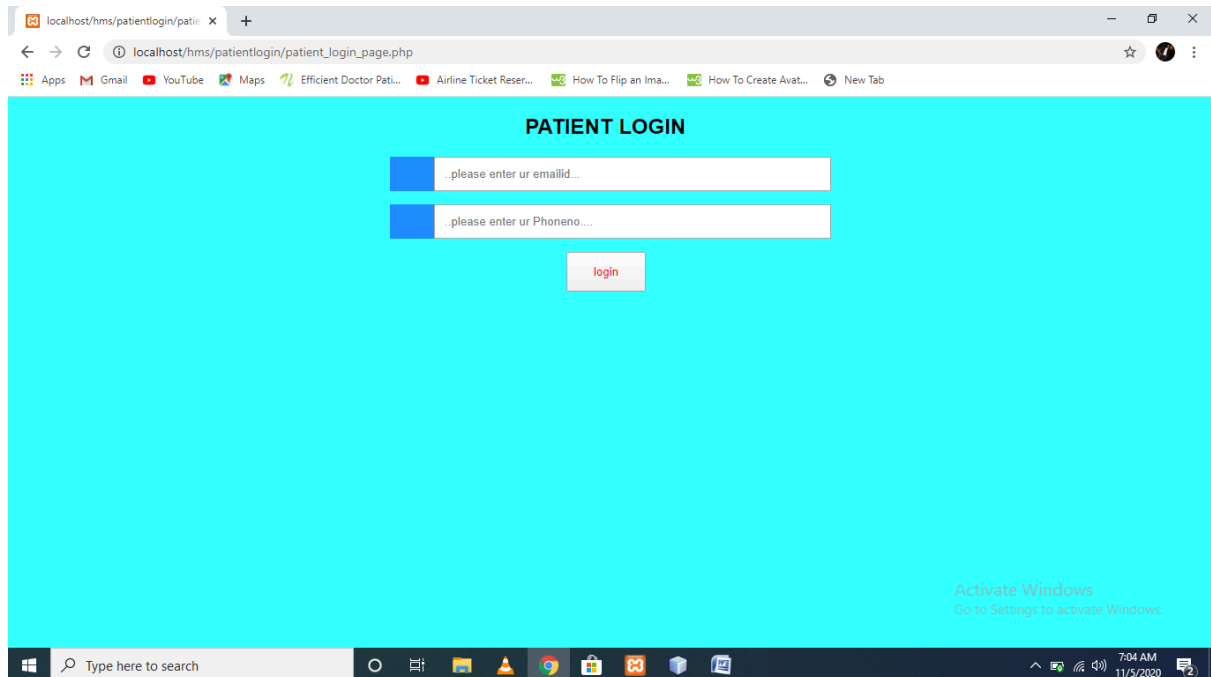
APPOINTMENTBOOKING:



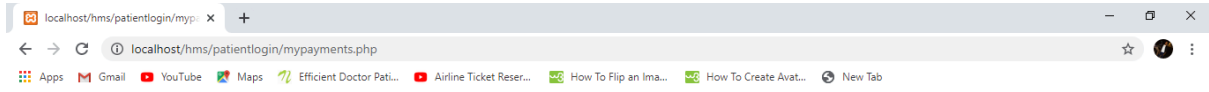
DOCTOR LOGIN:



PATIENT LOGIN:



PAYMENT:



Billing Address	Payment
Full Name <input type="text" value="xxxx"/>	Name on Card <input type="text" value="John More Doe"/>
Email <input type="text" value="enter ur email"/>	Credit card number <input type="text" value="1111-2222-3333-4444"/>
Address <input type="text" value="yyyy"/>	Exp Month <input type="text" value="September"/>
City <input type="text" value="www"/>	Exp Year <input type="text" value="2018"/>
Phone <input type="text" value="12345-67890"/>	CVV <input type="text" value="enter cvv"/>
<input type="button" value="Continue to checkout"/>	

Activate Windows
Go to Settings to activate Windows.

