# HOSPITAL DATABASE MANAGEMENT



**SYSTEM**

# V1 SEMESTER

**IT8611 MINI PROJECT REPORT**

# Submitted by RAGHAVI R (312418205067)

**PAVITHRA M (312418205059)**

# BACHELOR OF TECHNOLOGY

**In INFORMATION TECHNOLOGY**

# St. JOSEPH’S INSTITUTE OF TECHNOLOGY CHENNAI - 600 119

**ANNA UNIVERSITY, CHENNAI - 600 025**

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BONAFIDE CERTIFICATE

It is certified that this project report, **" HOSPITAL DATABASE MANAGEMENT**

**SYSTEM ",** is the bonafide work of **RAGHAVI R (312418205067) &**

**PAVITHRA M (312418205059)**, who carried out the mini project work under my supervision, for the University Practical Examination held on 03.08.2021 in **MINI PROJECT** Laboratory during the year 2020-2021.

# SIGNATURE SIGNATURE

Dr. S.KALARANI , M.E., Ph.D Mr. M. Karthi , M.E., Ph.D

Professor Assistant Professor

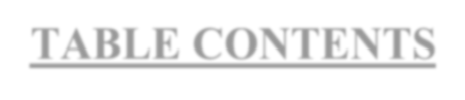
# HOD SUPERVISOR

Department of Information Technology Department of Information Technology St.Joseph’s Institute of Technology St.Joseph’s Institute of Technology

Old Mamallapuram Road Old Mamallapuram Road

Chennai- 600 119 Chennai- 600 119

# (INTERNAL EXAMINER) (EXTERNAL EXAMINER)



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# CHAPTER – 1

**ABSTRACT**

Hospital Management System provides the benefits of streamlined operations, enhanced administration, control, superior patient care, strict cost control, and improved profitability. HMS is powerful , flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. More importantly, it is backed by reliable and dependable support. The project ‘Hospital Management System’ is based on the database and object-oriented.

The entire application is web-based, The sound database of the application makes it more user friendly and expandable. This is highly customizable and can be modified as per the needs and requirements of the hospital. It covers all the required modules right from Patient Registration, Medicine details , Doctor, Admin, Patient appointment, bill payment, record modification, discharge details etc .

As of today, the health sector comprises Medical institutions i.e.

Hospitals, research and development institutions, and medical colleges. Thus, the Health sector aims at providing the best medical facilities to the common man. The manual handling of the record is time-consuming and highly prone to error.

The purpose of this project is to automate or make online, the process of day-to-day activities like Room activities; Admission of New patients, Discharge of patients, Assign a Doctor and finally compute the bill, etc. If researchers want to access any data, they would need the data accessibility permission and then only research can be performed hence preserving the privacy of patient’s data.

# INTRODUCTION

The objective of this project is to develop hospital management software-based on a file-based system to a computer database system.

This will help the hospital to be more efficient in handling the daily activities and registration of their patients. The purpose of this project is

to give complete requirements documentation, design, and implementation of the software.

It also explains the user interface, hardware and software, and different models that could be used to develop software.

Hospitals are the essential part of our lives, providing the best medical facilities to people suffering from various ailments, which may be due to change in climatic conditions, increased work-load, emotional trauma stress, etc.

It is necessary for the hospitals to keep track of their day-to-day activities & records of their patients, doctors, and personals that keep the hospital running smoothly & successfully.

# CHAPTER -2 SYSTEM ANALYSIS

**PRESENT SYSTEM:**

There are certain features limiting the process of the present system.The drawbacks of the present system are listed below:

* There is no proper maintenance of data.
* Security Systems are poor.

# PROPOSED SYSTEM:

The advantages of the proposed system are listed below:

* The data stored here is more secure
* It is user-friendly, flexible and helpful.
* Unique id is provided to each and every patient.
* The person time and work is reduced very much which is prevails in the present system

# CHAPTER-3 SYSTEM REQUIREMENTS

**SOFTWARE ENVIRONMENT:**

Software environment is a technical specification of requirement of software. This specifies the environment for development, operation and maintenance of the database program.

# TECHNOLOGIES USED:

* + PHP
  + WAMP
  + DATABASE MANAGEMENT SYSTEM

# PHP :

**WAMP :**

* Rasmus Lerdorf unleashed the first version of PHP way back in 1994. PHP is a recursive acronym for "PHP: Hypertext Preprocessor". PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
* PHP stands for Hypertext Preprocessor and is a server-side programming language. A good benefit of using PHP is

that it can interact with many different database languages including MySQL. We work with MySQL at Bluelinemedia since this is also a free language so it makes sense to use PHP.

* Stands for "Windows, Apache, MySQL, and PHP." WAMP is a variation of LAMP for Windows systems and is often installed as a software bundle (Apache, MySQL, and PHP).
  + The acronym WAMP refers to a set of free (open source) applications, combined with Microsoft Windows, which are commonly used in Web server environments. The WAMP stack provides developers with the four key elements of a Web server: an operating system, database, Web server and Web scripting software.

# DATABASE MANAGEMENT :

* + The Hospital database management system design is a database design use for managing hospital functions and events.
  + It enables the admin to register a patient for the hospital, stores their disease details into the database.
  + Online Hospital management Systems are used in Hospitals to allow Patients to manage appointments Doctors can check Patients appointment, view Patients appointment history .
  + Administrator can manage both the Doctors and Patients activities.

# CHAPTER – 4 SYSTEM DESGIN

**ARCHITECTURAL DIAGRAM:**

Admin

Patient



View Doctors database

View Hospital Database

View Patient’s Details

Update Database

Get Patient’s

details

Doctor’s

Consultation

Doctor’s

Appointment

Patient Registration

# Doctor Details:

<?php session\_start(); error\_reporting(0);

# CHAPTER - 5 IMPLEMENTATION

include('include/config.php ');

include('include/checklogin

.php'); check\_login();

if(isset($\_POST['submit']))

{ $docspecialization=$\_POST['Doctorspecialization'];

$docname=$\_POST['docname'];

$docaddress=$\_POST['clinicaddress'];

$docfees=$\_POST['docfees'];

$doccontactno=$\_POST['doccontact'];

$docemail=$\_POST['docemail'];

$password=md5($\_POST['npass']);

$sql=mysqli\_query($con,"insert into doctors(specilization,doctorName,address,docFees,contactno,docEmail,password) values('$docspecialization','$docname','$docaddress','$docfees','$doccontactno','

$docemail','$password ')");

if($sql)

{

echo "<script>alert('Doctor info added Successfully');</script>"; echo "<script>window.location.href ='manage- doctors.php'</script>";

}

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Admin | Add Doctor</title>

<link href="[http://fonts.googleapis.com/css?family=Lato:300,400,400italic,600,700](http://fonts.googleapis.com/css?family=Lato%3A300%2C400%2C400italic%2C600%2C700)|Ral eway:300,400,500,60 0,700|Crete+Round:400italic" rel="stylesheet" type="text/css" />

<link href="vendor/switchery/switchery.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-touchspin/jquery.bootstrap-touchspin.min.css" rel="stylesheet" media="screen">

<link href="vendor/select2/select2.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-datepicker/bootstrap- datepicker3.standalone.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-timepicker/bootstrap-timepicker.min.css" rel="stylesheet" media="screen">

<link rel="stylesheet" href="assets/css/styles.css">

<link rel="stylesheet" href="assets/css/plugins.css">

<link rel="stylesheet" href="assets/css/themes/theme-1.css" id="skin\_color" />

<script type="text/javascript"> function valid()

{

if(document.adddoc.npass.value!= document.adddoc.cfpass.value)

{

alert("Password and Confirm Password Field do not match !!"); document.adddoc.cfpass.focus();

return false;

jQuery(document).ready(function() {

Main.init(); FormElements.init();

});

</script>

<!-- end: JavaScript Event Handlers for this page -->

<!-- end: CLIP-TWO JAVASCRIPTS -->

</body>

</html>

# Appointment Details:

<?php session\_start(); error\_reporting(0);

include('include/config.php ');

include('include/checklogi n.php'); check\_login();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Patients | Appointment History</title>

<link href="vendor/animate.css/animate.min.css" rel="stylesheet" media="screen">

<link href="vendor/perfect-scrollbar/perfect-scrollbar.min.css" rel="stylesheet" media="screen">

<link href="vendor/switchery/switchery.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-touchspin/jquery.bootstrap-touchspin.min.css" rel="stylesheet" media="screen">

<link href="vendor/select2/select2.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-datepicker/bootstrap- datepicker3.standalone.min.css" rel="stylesheet" media="screen">

<link href="vendor/bootstrap-timepicker/bootstrap-timepicker.min.css" rel="stylesheet" media="screen">

<link rel="stylesheet" href="assets/css/styles.css">

<link rel="stylesheet" href="assets/css/plugins.css">

<link rel="stylesheet" href="assets/css/themes/theme-1.css" id="skin\_color" />

</head>

<body>

<div id="app">

<?php include('include/sidebar.php');?>

<div class="app-content">

<?php include('include/header.php');?>

<!-- end: TOP NAVBAR -->

<script src="vendor/autosize/autosize.min.js"></script>

<script src="vendor/selectFx/classie.js"></script>

<script src="vendor/selectFx/selectFx.js"></script>

<script src="vendor/select2/select2.min.js"></script>

<script src="vendor/bootstrap-datepicker/bootstrap-

datepicker.min.js"></script>

<script src="vendor/bootstrap-timepicker/bootstrap- timepicker.min.js"></script>

<!-- end: JAVASCRIPTS REQUIRED FOR THIS PAGE ONLY -->

<!-- start: CLIP-TWO JAVASCRIPTS -->

<script src="assets/js/main.js"></script>

<!-- start: JavaScript Event Handlers for this page -->

<script src="assets/js/form-elements.js"></script>

</body>

</html>

# Availability Details:

<?php require\_once("include/config.php "); if(!empty($\_POST["emailid"])) {

$email= $\_POST["emailid"];

$result =mysqli\_query($con,"SELECT docEmail FROM doctors WHERE docEmail='$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>";

}

}

?>

# Patients Details:

<?php include\_once('hms/include/config.php'); if(isset($\_POST['submit']))

{

$name=$\_POST['fullname'];

$email=$\_POST['emailid'];

$mobileno=$\_POST['mobileno'];

$dscrption=$\_POST['description'];

<!DOCTYPE HTML>

<html>

<head>

<title>HMS | Contact us</title>

<link href="css/style.css" rel="stylesheet" type="text/css" media="all" />

<link href[='h](http://fonts.googleapis.com/css?family=Ropa%2BSans%27)tt[p://fonts.googleapis.com/css?family=Ropa+Sans'](http://fonts.googleapis.com/css?family=Ropa%2BSans%27) rel='stylesheet' type='text/css'>

</head>

<body>

<!--start-wrap-->

<!--start-header-->

<div class="header">

<div class="wrap">

<!--start-logo-->

<div class="logo">

<a href="index.html" style="font-size: 30px;">Hospital Management system</a>

</div>

<!--end-logo-->

<!--start-top-nav-->

<div class="top-nav">

<ul>

<li><a href="index.html">Home</a></li>

<li class="active"><a href="contact.php">contact</a></li>

</ul>

</div>

<div class="clear"> </div>

<div class="clear"> </div>

</div>

<div class="clear"> </div>

<div class="footer">

<div class="wrap">

<div class="footer-left">

<ul>

<li><a href="index.html">Home</a></li>

<li><a href="contact.php">contact</a></li>

</ul>

<!--end-wrap-->

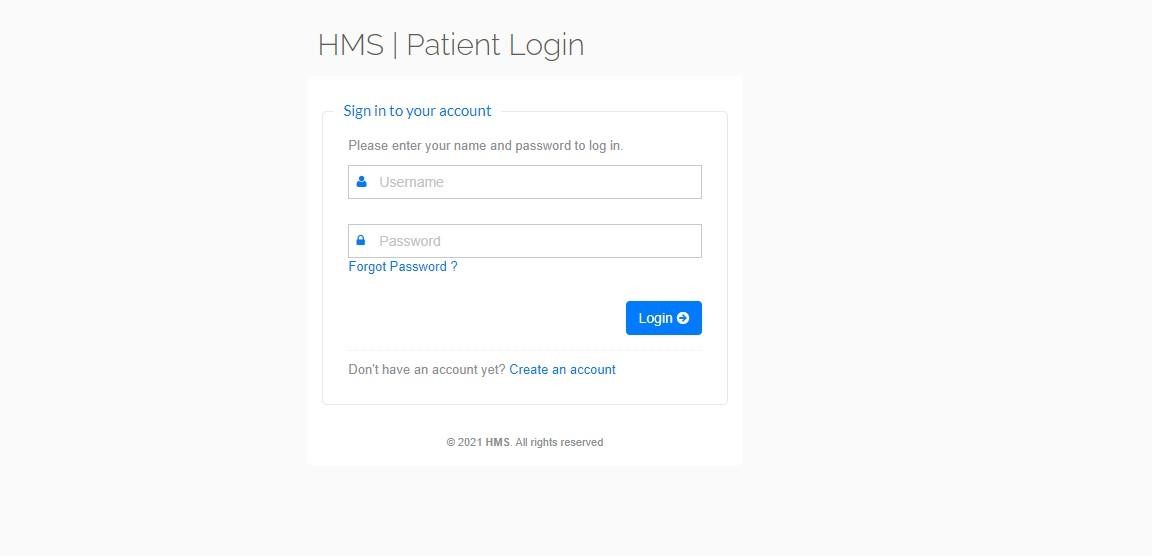
</body>

</html>

# OUTPUT SCREENSHOTS :



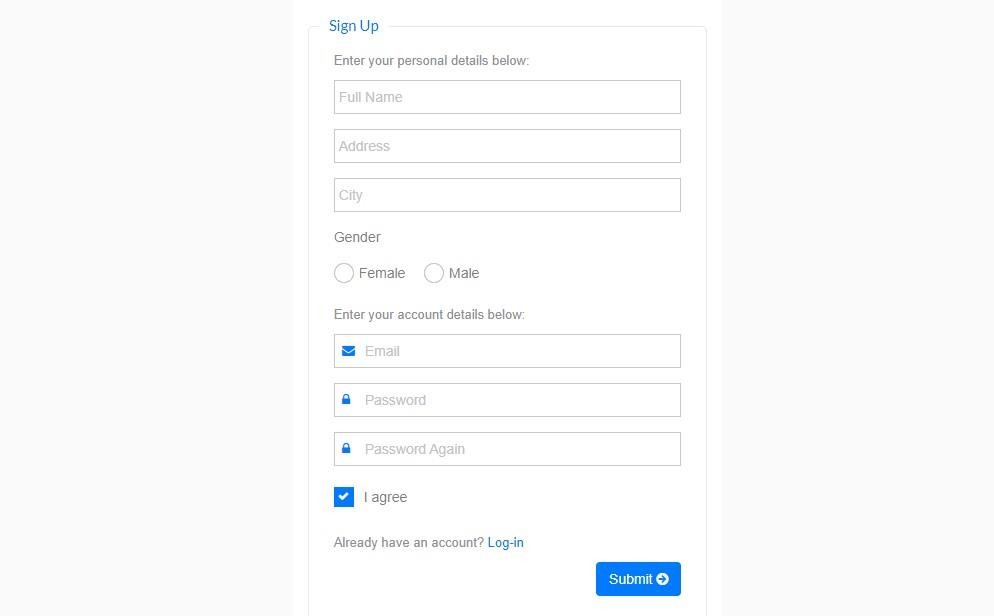
**PATIENT’S LOGIN :**



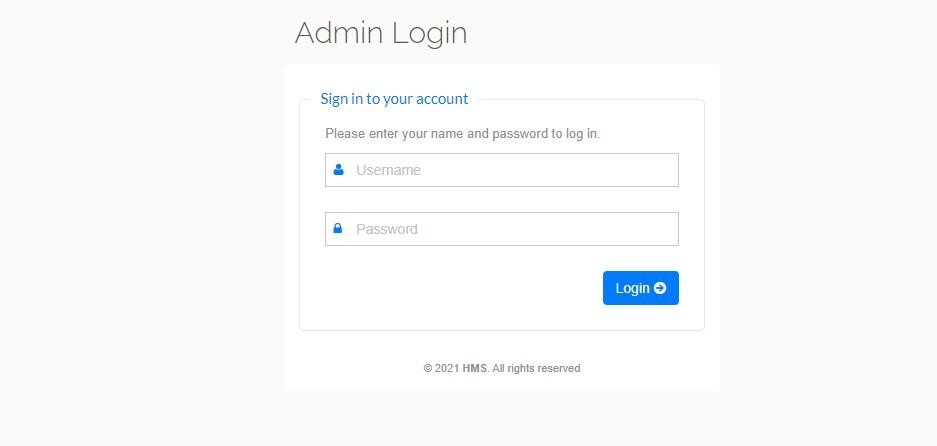
# DOCTOR’S LOGIN :

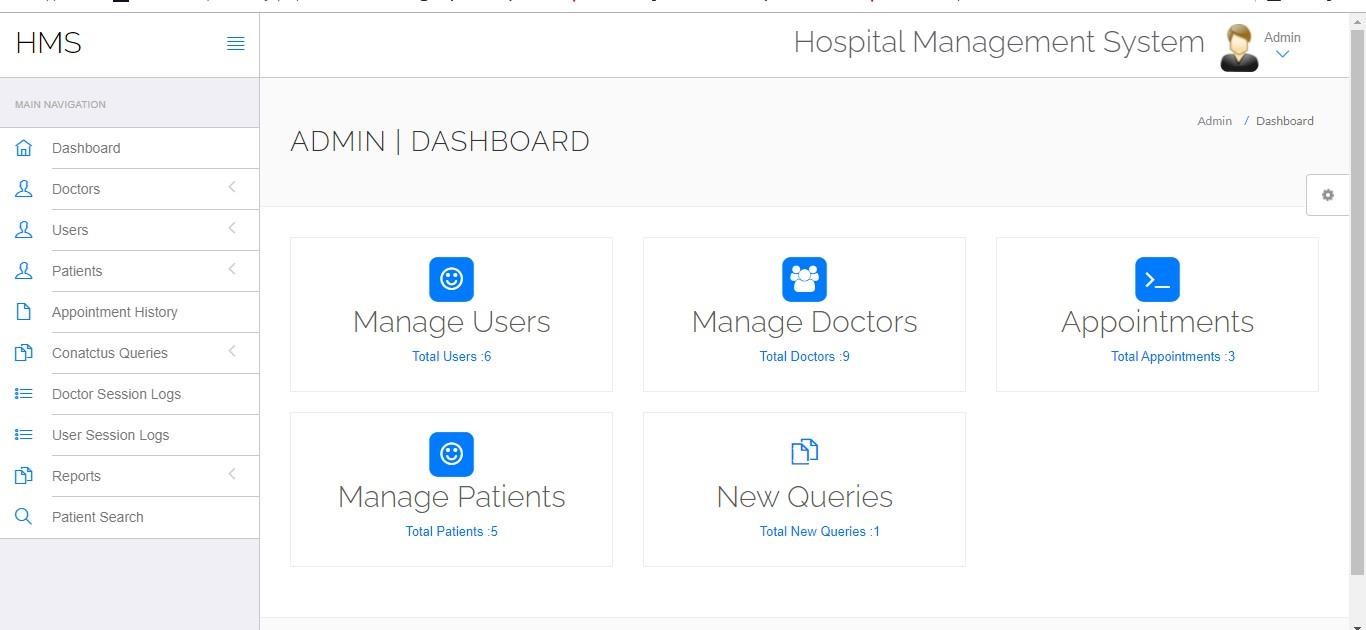


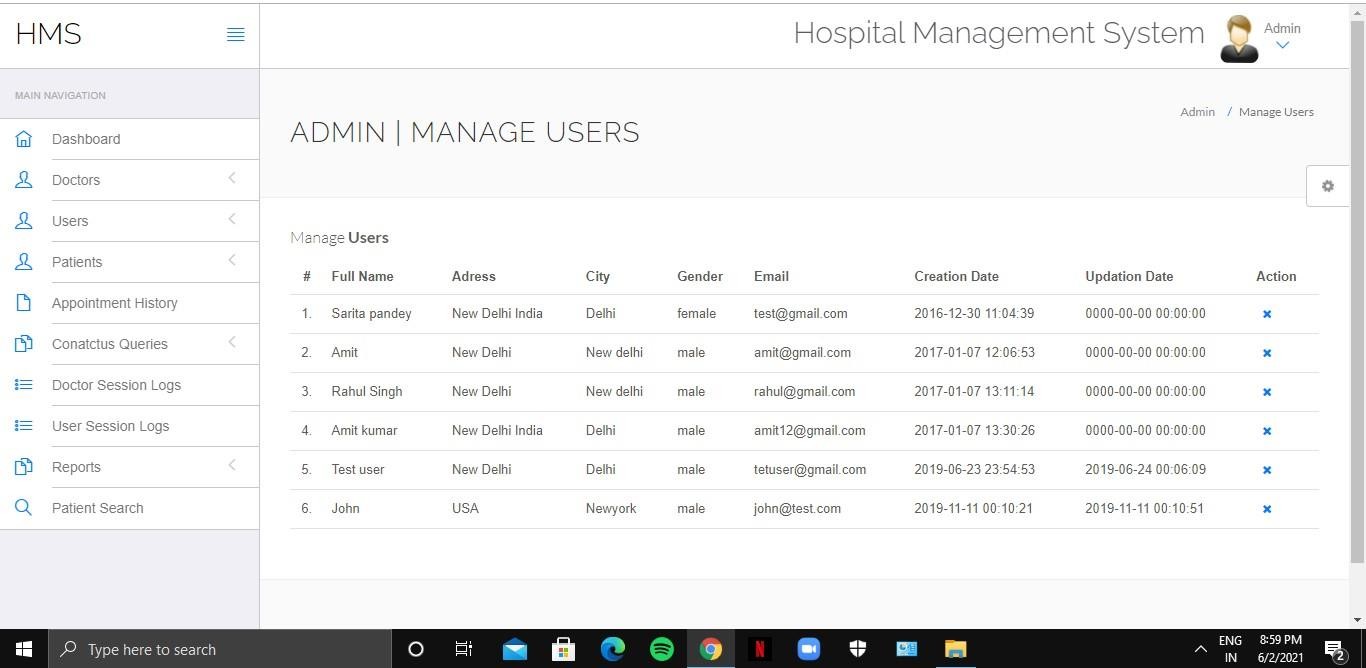
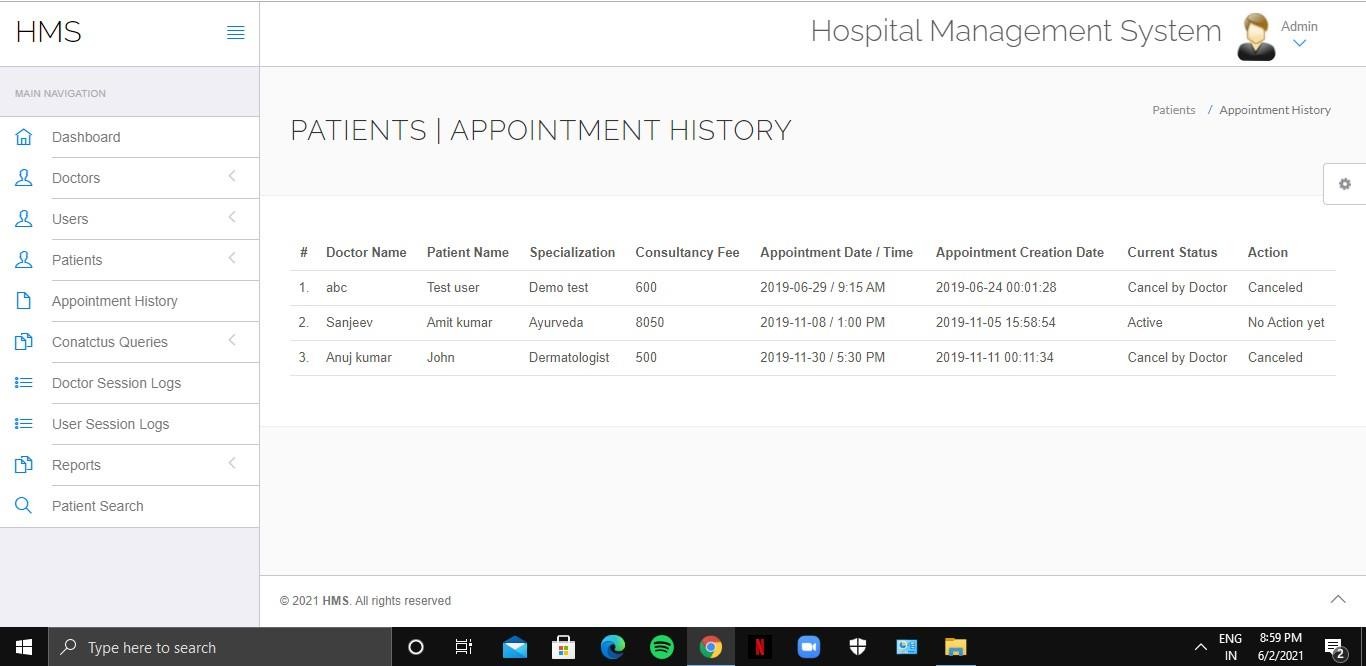
**PATIENT’S REGISTRATION :**

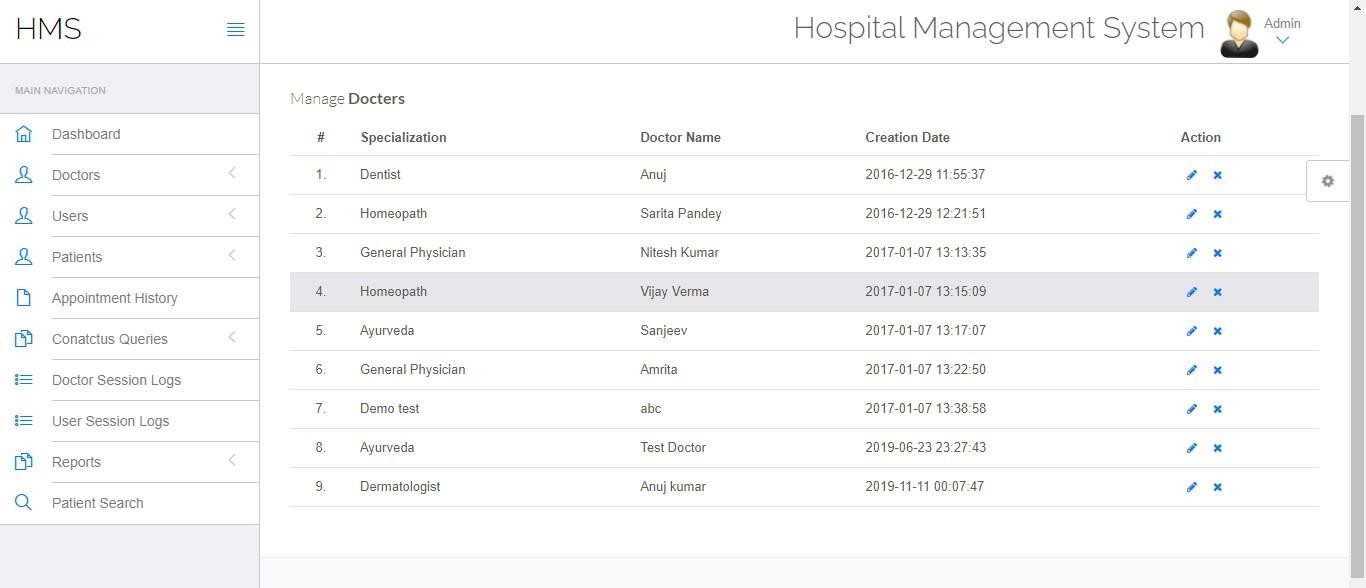


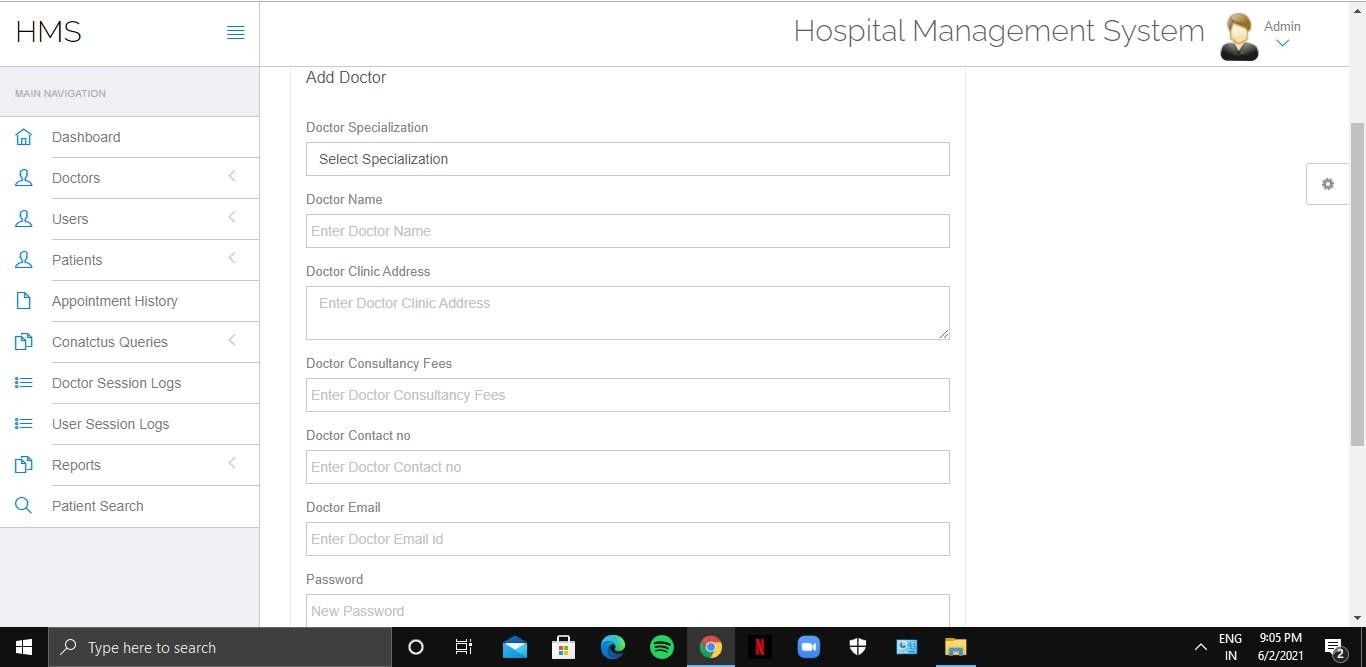
# ADMIN’S ACCESS:











**FUTURE ENHANCEMENT**

* In ancient time people were not aware of any management system how to run a such big system.
* Now the techniques have improved and new scope new research about all these have came upon ,new facilities can be provided to the patients in a hospital .
* With the increasing complexity of medical care and acceptance of the hospital as a service, adjunct services to supplement the usual medical and nursing care are to be developed.
* Organizational change is a requisite for organizational improvement and only a planned change is likely to be effective. Increasing specialization is leading to growth of the country.

# CHAPTER – 7 CONCLUSION

* The software takes care of all the requirements of an average hospital and is capable to provide easy and effective storage of information related to patients that come up to the hospital.
* Modern equipment and facilities call for a specific hospital design and plan. Special facilities require professional and managerial skills to optimize the use of available resources.
* Hospital administrators have realized now the need for scientific hospital administration in the running of their hospitals.
* Today hospitals are better known for their speciality and super speciality services. New concepts have also been introduced in the management of hospitals, like day-care services and transfer of specialized diagnostic and therapeutic services from in-patient to out-patient areas.

# REFERENCES

1. [https://www.scribd.com/doc/49588162/Hospital-ManagementSystem-abstract](https://www.scribd.com/doc/49588162/Hospital-Management-System-abstract)
2. Head First PHP & MySQL Author – Lynn Beighley & Michael Morrison Latest Edition.
3. PHP & MySQL Novice to Ninja Author.