HOSPITAL MANAGMENT

##### 15IT304J-WEB PROGRAMMING PROJECT REPORT

###### ***Submitted by***

##### KARTIK BHOJAK (RA1511008010352)

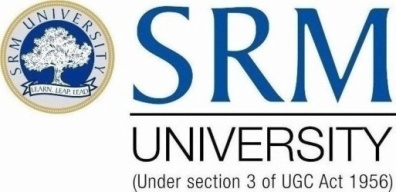
***in partial fulfillment for the award of the degree***

***of***

**B.Tech**

*in*

# INFORMATION TECHNOLOGY



SRM UNIVERSITY

KATTANKULATHUR

##### APRIL 2018

**Abstract**

The purpose of the project entitled as “HOSPITAL MANAGEMENT SYSTEM” is to develop software which is user friendly simple, fast, and cost – effective.

It deals with the collection of patient’s information, diagnosis details, etc. Previously, it was done manually. This project is undertaken in order to withdraw the amount of work which is done manually and to be done with the help of machines so the data can be easily manipulated and retrieved.

The main function of the system is register and store patient details and doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully System input contains patient details, diagnosis details, while system output is to get these details on to the screen. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast.

**Introduction**

The project Hospital Management system includes registration of patients, storing their details. The software has the facility to give a unique id for every patient and stores the details of every patient.

User can search availability of a doctor and the details of a patient using the id.

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

Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals.

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

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

**Requirements analysis**

Hardware and Software requirements :

* Operating system : Windows XP or above
* Ram : 2GB or above .
* Processor : Intel Pentium p4 or above.
* Web server : Xampp or any other web server.
* Web Browser : Google Chrome /Mozilla Firefox / Microsoft edge
* Text editor : notepad++ / Adobe Dreamweaver

Functional requirements :

* User selection of doctors
* User booking an appointment
* Languages required : HTML/CSS/Javascript/PHP.
* HTML and CSS were required to make the front end of the website.
* JavaScript was used to make the user validation while login and registration.
* PHP was used to store cookies and to manage the database of the website.

Non Functional requirements :

* Appointment made by the user.
* Addition and removal of doctors in the website database by the admin.
* Updation of payment status of patients.

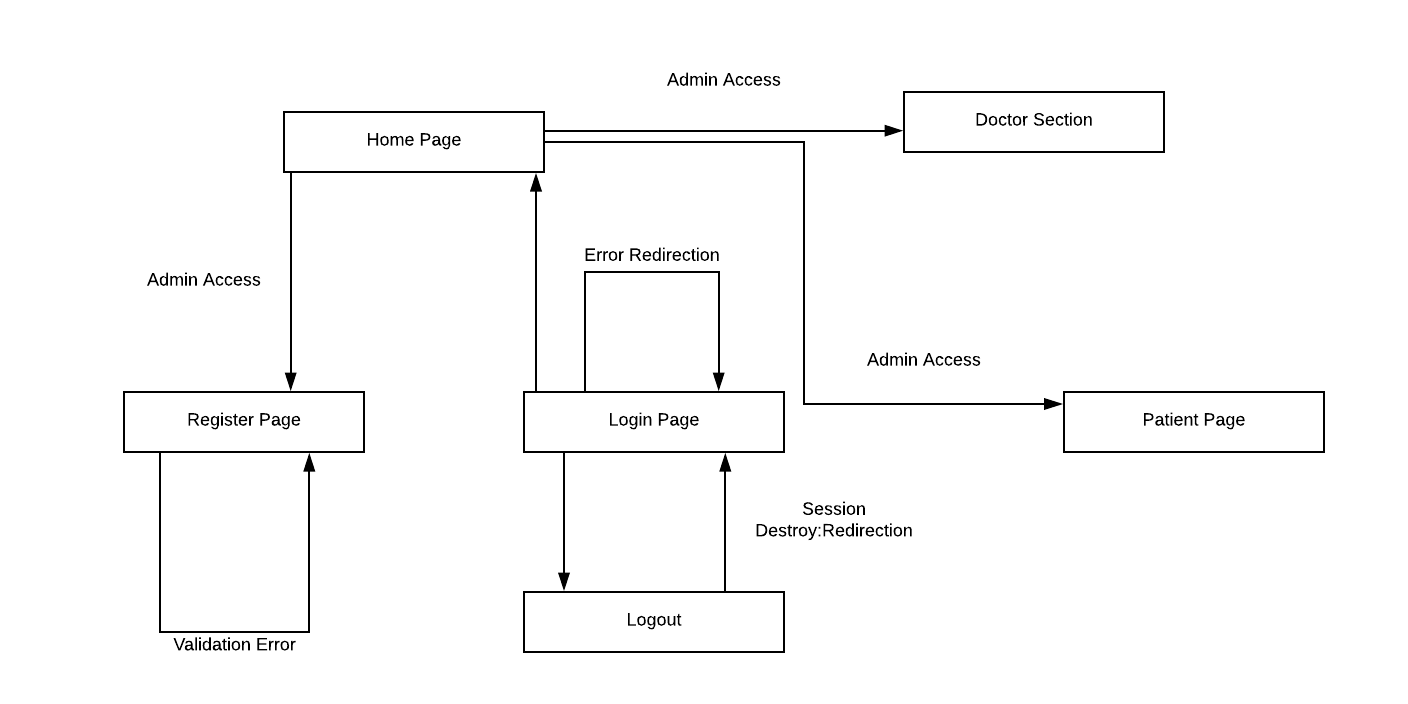
**Existing System**

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

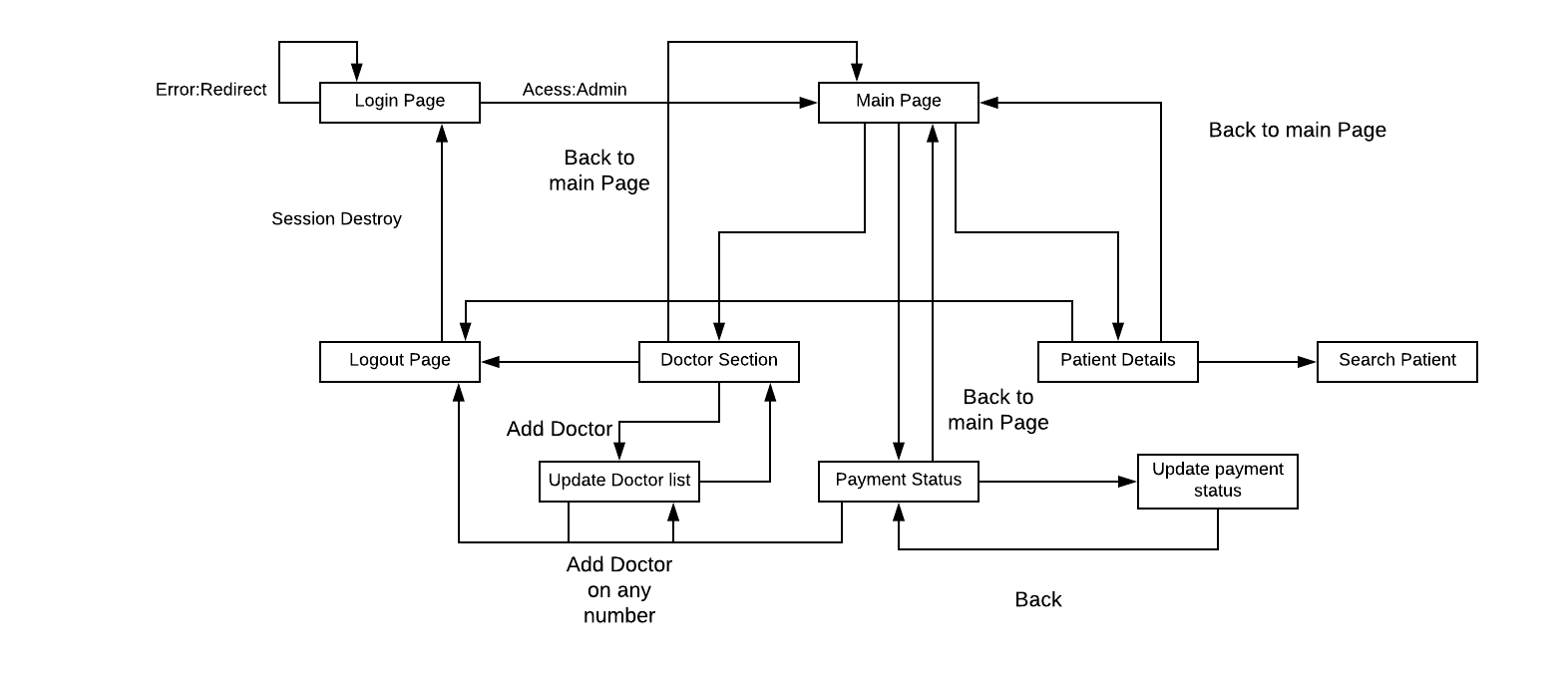
**Proposed System**

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

**Dataflow Diagram**



**Database Design**



**Conclusion**

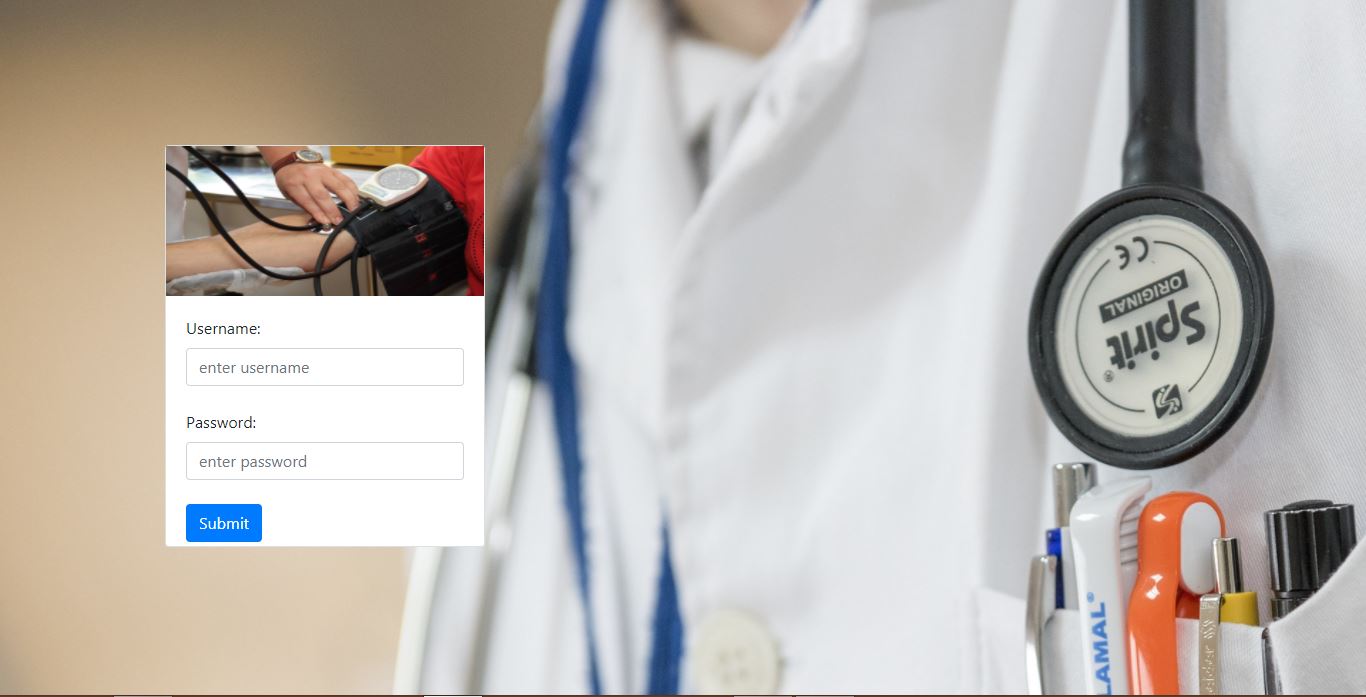
Since we are entering details of the patients electronically in the” Hospital Management System”, data will be secured. Using this application we can retrieve patient’s history with a single click. Thus processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and thus reduces the human effort and increases accuracy speed

**References**

The following references were used :

* <https://www.w3schools.com/html/>
* <https://www.w3schools.com/css/default.asp>
* <https://www.w3schools.com/js/default.asp>
* <https://www.w3schools.com/sql/default.asp>
* <https://www.w3schools.com/php/default.asp>
* <https://www.tutorialspoint.com>
* [Internet\_\_World\_Wide\_Web\_ED\_4.pdf](https://piazza.com/class_profile/get_resource/iymgj2ksprsho/izf50rwj254xr)
* [Learn to Code - Building your First Page](http://learn.shayhowe.com/html-css/building-your-first-web-page/)

**Screenshots and coding**

****

<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<title>login</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<style type="text/css">

#ab1:hover{

cursor:pointer;

}

.container{

width:350px;

margin-left:150px;

margin-top:150px;

}

</style>

</hea

<body style="background:url('backgroundimg.jpeg') no-repeat; background-size:cover; height:75%">

<div class="container">

<div class="card">

<img src="cardback.jpeg" class="img-card-top" style="height:150px">

<div class="card-body" style="height:250px">

<form class="form-group" action="func.php" method="post">

<label>Username:</label><br>

<input type="text" name="username" class="form-control" placeholder="enter username"><br>

<label>Password:</label><br>

<input type="password" name="password" class="form-control" placeholder="enter password"><br>

<input type="submit" name="login\_submit" id="b1" class="btn btn-primary">

</form>

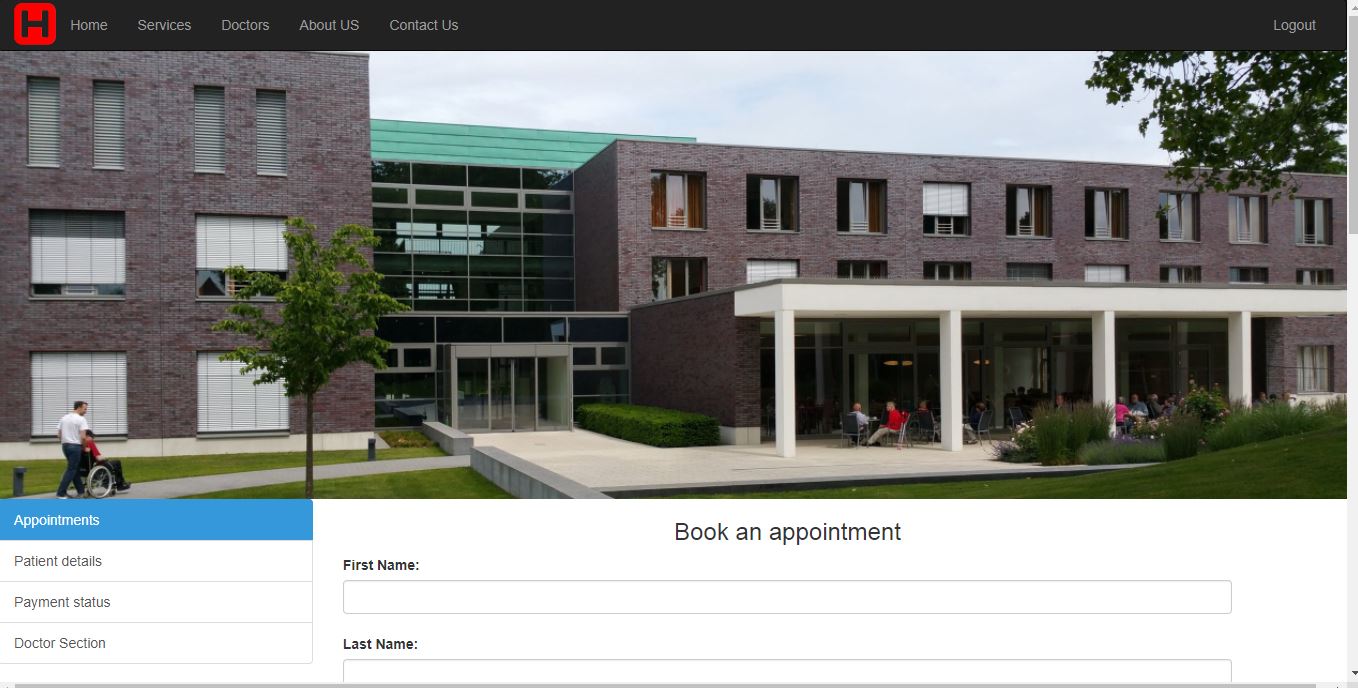
</div>

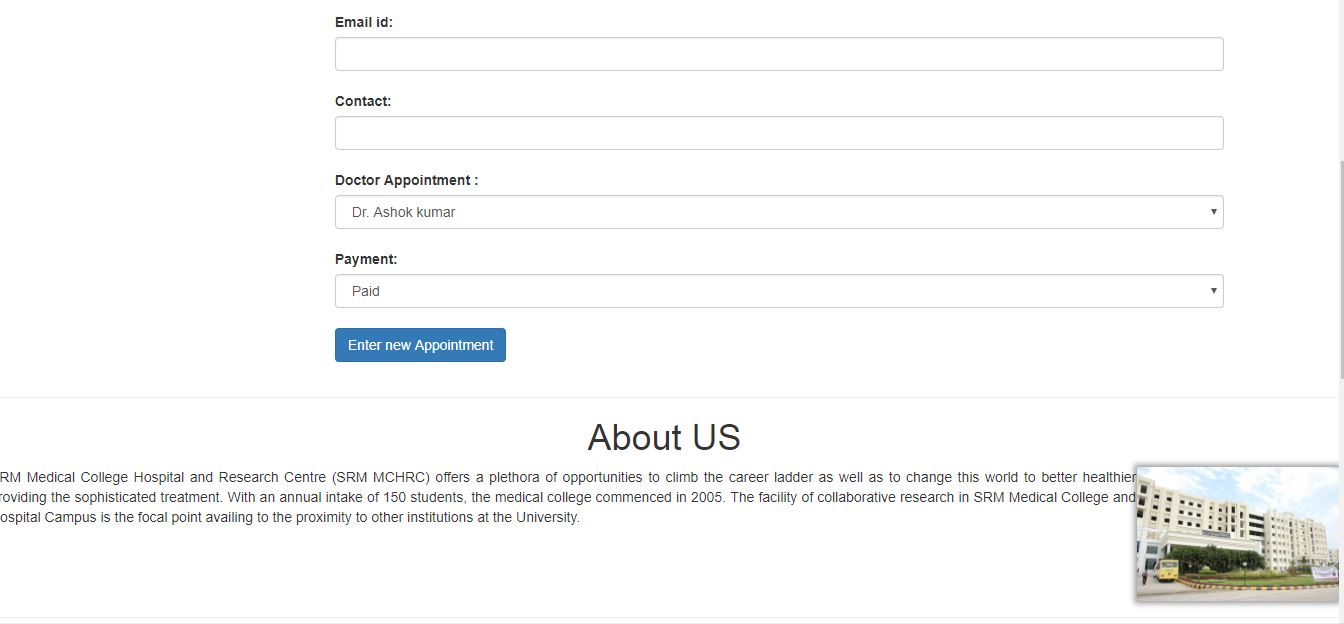
</div>

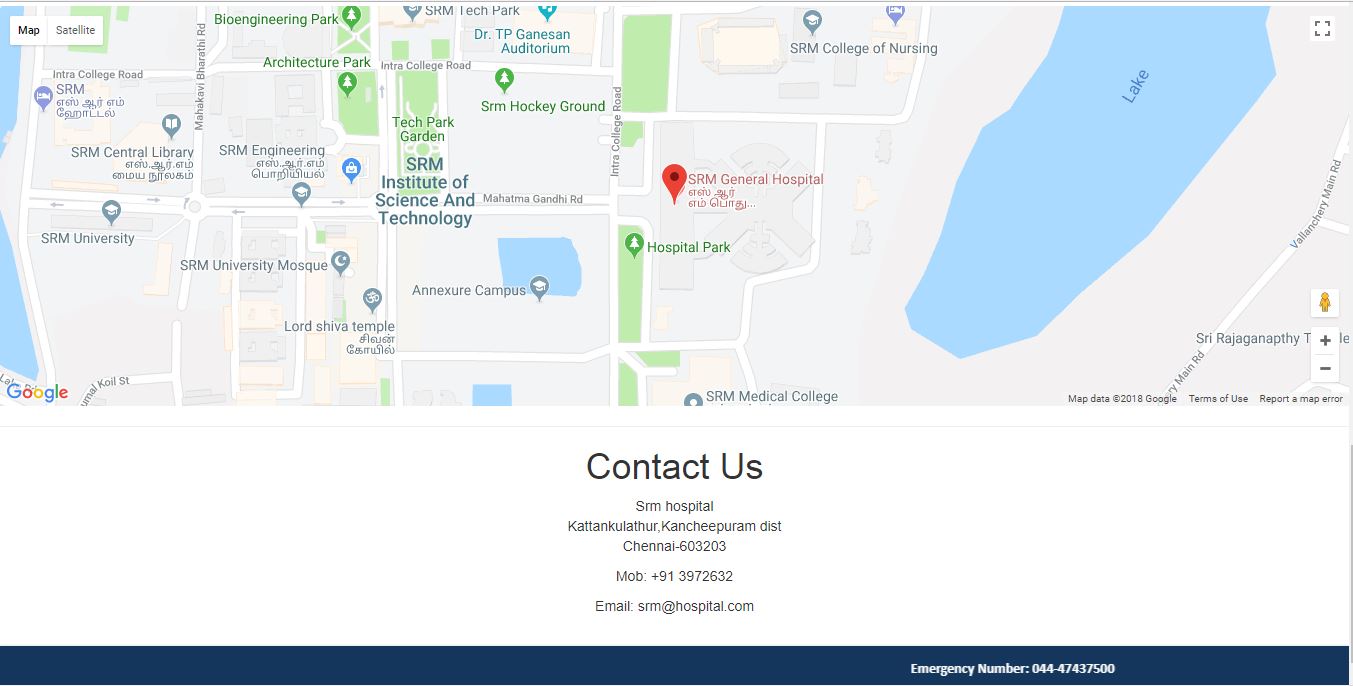
</div>

</body>

</html>

****

****

****

<?php include('func.php');?>

<?php

if(isset($\_SESSION['username']))

{}

else

{

header('location:index.php');

}

?>

<!DOCTYPE html>

<html>

<head>

<!--<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

-->

<title>adminpanel</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

<script src = "../jqu.js" type = "text/javascript"></script>

<style type="text/css">

.img-responsive{

background-image:url("background.jpeg");

width:100%;

height: 500px;

padding:0px;

background-size:cover;

background-repeat: no-repeat;

}

.row-kartik{

text-align:center;

}

#header{

z-index:100;

bottom:0;

width:100%;

background-color:#14365C;

padding:1%;

color:#fff;

font-family:Calibri;

box-shadow:0 2px 5px rgba(0,0,0,0.5);

font-weight:bold;

}

.image{

width:15%;

float:right;

box-shadow:0 0 8px 2px rgba(0,0,0,0.4);

}

#map {

height: 400px;

width: 10youtu0%;

}

</style>

</head>

<body>

<div class="img-responsive">

<nav class="navbar navbar-inverse">

<div class="container-fluid">

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<i class="fa fa-h-square" style="font-size:48px;color:red"></i>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

<ul class="nav navbar-nav">

<li><a href="adminpanel.php">Home</a></li>

<li><a href="#">Services</a></li>

<li><a href="#">Doctors</a></li>

<li><a href="#about">About US</a></li>

<li><a href="#con">Contact Us</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li><a href="logout.php">Logout</a></li>

</div>

</ul>

</div><!-- /.navbar-collapse -->

</div><!-- /.container-fluid -->

</nav></div>

<div class="row">

<div class="col-md-3">

<div class="list-group">

<a href="" class="list-group-item " style="background-color:#3498DB;color:#ffffff;border-color:#3498DB">Appointments</a>

<a href="patientdetails.php" class="list-group-item">Patient details</a>

<a href="paymentstatus.php" class="list-group-item">Payment status</a>

<a href="adddoc.php" class="list-group-item">Doctor Section</a>

</div>

</div>

<div class="col-md-8">

<div class="card">

<div class="card-body">

<h3 align="center">Book an appointment</h3>

<form class="form-group" action="func.php" method="post">

<label>First Name:</label>

<input type="text" name="fname" class="form-control"><br>

<label>Last Name:</label>

<input type="text" name="lname" class="form-control"><br>

<label>Email id:</label>

<input type="email" name="email" class="form-control"><br>

<label>Contact:</label>

<input type="tel" name="contact" class="form-control"><br>

<label>Doctor Appointment :</label>

<select class="form-control" name="docapp" >

<!--option value="Dr Sharma From 6pm to 8pm">Dr sharma From 6pm to 8pm</option>

<option value="Dr Shetty From 4pm to 6pm">Dr roy 24 Hours Available</option-->

<?php display\_docs(); ?>

</select><br>

<label>Payment:</label>

<select class="form-control" name="pay">

<option value="paid">Paid</option>

<option value="pay-later">Not-paid</option>

</select><br>

<input type="submit" class="btn btn-primary" name="pat\_submit" value="Enter new Appointment">

</form>

</div>

</div>

</div>

<div class="col-md-1"></div>

</div><hr>

<div id="about">

<h1 style="text-align:center;">About US</h1>

<img src="https://exceladmissions.com/wp-content/uploads/2014/12/SRM-Medical-College.jpg" class="image">

<p style="text-align:justify;">SRM Medical College Hospital and Research Centre (SRM MCHRC) offers a plethora of opportunities to climb the career ladder as well as to change this world to better healthier providing the sophisticated treatment. With an annual intake of 150 students, the medical college commenced in 2005. The facility of collaborative research in SRM Medical College and Hospital Campus is the focal point availing to the proximity to other institutions at the University.</p>

</div>

</div><br><br><br><hr>

<div id="map" ></div>

<script>

function initMap() {

var uluru = {lat: 12.8229418, lng: 80.04796420000002};

var map = new google.maps.Map(document.getElementById('map'),

{

zoom: 17,

center: uluru

});

var marker = new google.maps.Marker({

position: uluru,

map: map

});

}

</script>

<script async defer

src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCIm7Ng9qY5WNSFKxf4uwd1D-x8jDns7Ng&callback=initMap">

</script>

<hr>

<div class="row-kartik" id="con">

<h1>Contact Us</h1>

<p>Srm hospital<br>Kattankulathur,Kancheepuram dist<br>Chennai-603203</p>

<p>Mob: +91 3972632</p>

<p>Email: srm@hospital.com</p>

</div><br>

<div id="header"><marquee>Emergency Number: 044-47437500</marquee></div>

</body>

</html>



<!DOCTYPE html>

<?php include("func.php");?>

<html>

<head>

<title>Patient Details</title>

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

</head>

<style type="text/css">

.jumbotron{

background-image:url("2.jpg");

width:100%;

height:400px;

background-size:cover;

background-repeat: no-repeat;

}

#header{

z-index:100;

bottom:0;

width:100%;

background-color:#14365C;

padding:1%;

color:#fff;

font-family:Calibri;

box-shadow:0 2px 5px rgba(0,0,0,0.5);

font-weight:bold;

}

</style>

<body>

<div class="jumbotron"></div>

<div class="container-fluid">

<div class="card">

<div class="card-body" style="background-color:#3498DB;color:#ffffff";>

<div class="row">

<div class="col-md-1">

<a href="adminpanel.php" class="btn btn-light">Go Back</a>

</div>

<div class="col-md-3"><h3>Patient Details</h3></div>

<div class="col-md-8">

<form class="form-group" action="searchpatient.php" method="post">

<div class="row">

<div class="col-md-10"><input type="text" name="sea" class="form-control" placeholder="enter contact"></div>

<div class="col-md-2"><input type="submit" name="patient\_search\_submit" value="search" class="btn btn-light"></div>

</div>

</div>

</div>

<div class="card-body" style="background-color:#3498DB;color:#ffffff"></div>

<table class="table table-hover">

<thead>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th >Email id</th>

<th >Contact Details</th>

<th>Doctor Appointment</th>

<th>Payment</th>

</tr>

</thead>

<tbody>

<?php get\_patient\_details(); ?>

</tbody>

</table>

</div>

</div>

</div>

<div id="header"><marquee>Emergency Number: 044-47437500</marquee></div>

</body>

</html>



<html>

<head>

<title>Patient Details</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

</head>

<body>

<?php

include("func.php");

$con=mysqli\_connect("localhost","root","","hmsdb");

if(isset($\_POST['patient\_search\_submit']))

{

$contact=$\_POST['sea'];

$query="select \* from doctorapptb where contact='$contact'";

$result=mysqli\_query($con,$query);

echo "<div class='container-fluid' style='margin-top:50px;'>

<div class='card'>

<div class='card-body'><a href='patientdetails.php' class='btn btn-light'>Go Back</div>

<img src='2.jpg' class='card-img-top'>

<div class='card-body'style='background-color:#3498DB;color:#ffffff;''>

<table class='table table-hover'>

<thead>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th >Email id</th>

<th >Contact Details</th>

<th>Doctor Appointment</th>

<th>Payment</th>

</tr>

</thead>

<tbody>";

while($row=mysqli\_fetch\_array($result))

{

$fname=$row['fname'];

$lname=$row['lname'];

$email=$row['email'];

$contact=$row['contact'];

$docapp=$row['docapp'];

$payment=$row['payment'];

echo "<tr>

<td>$fname</td>

<td>$lname</td>

<td>$email</td>

<td>$contact</td>

<td>$docapp</td>

<td>$payment</td>

</tr>";

}

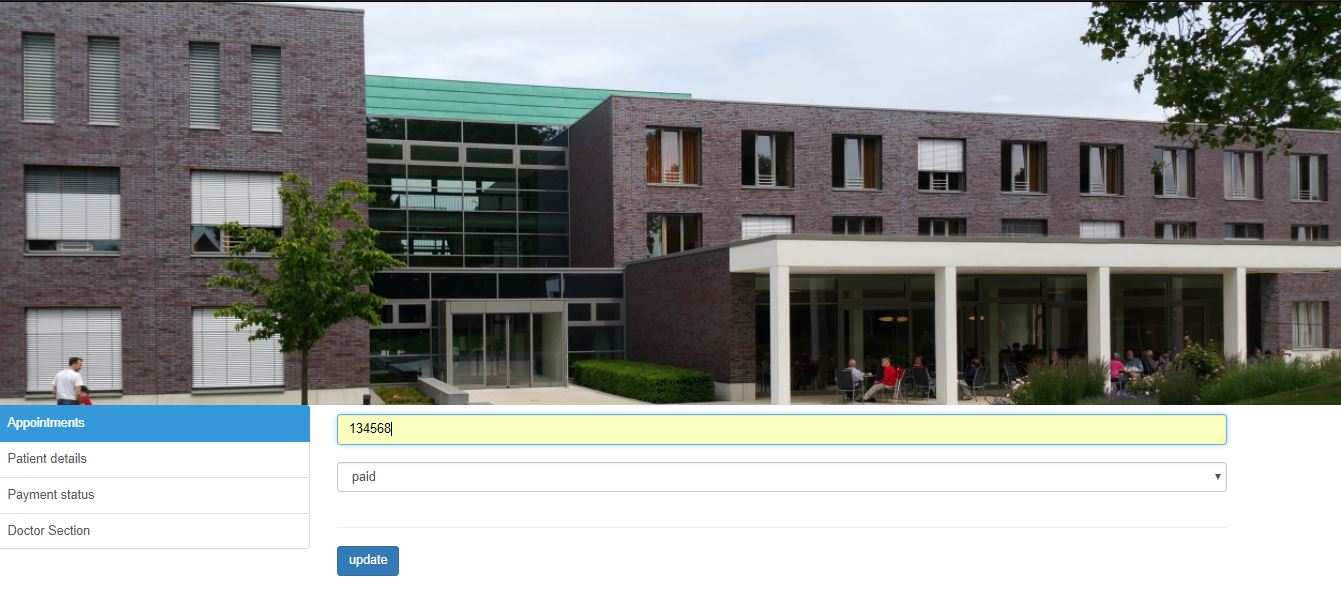
echo "</tbody></table></div></div></div>";

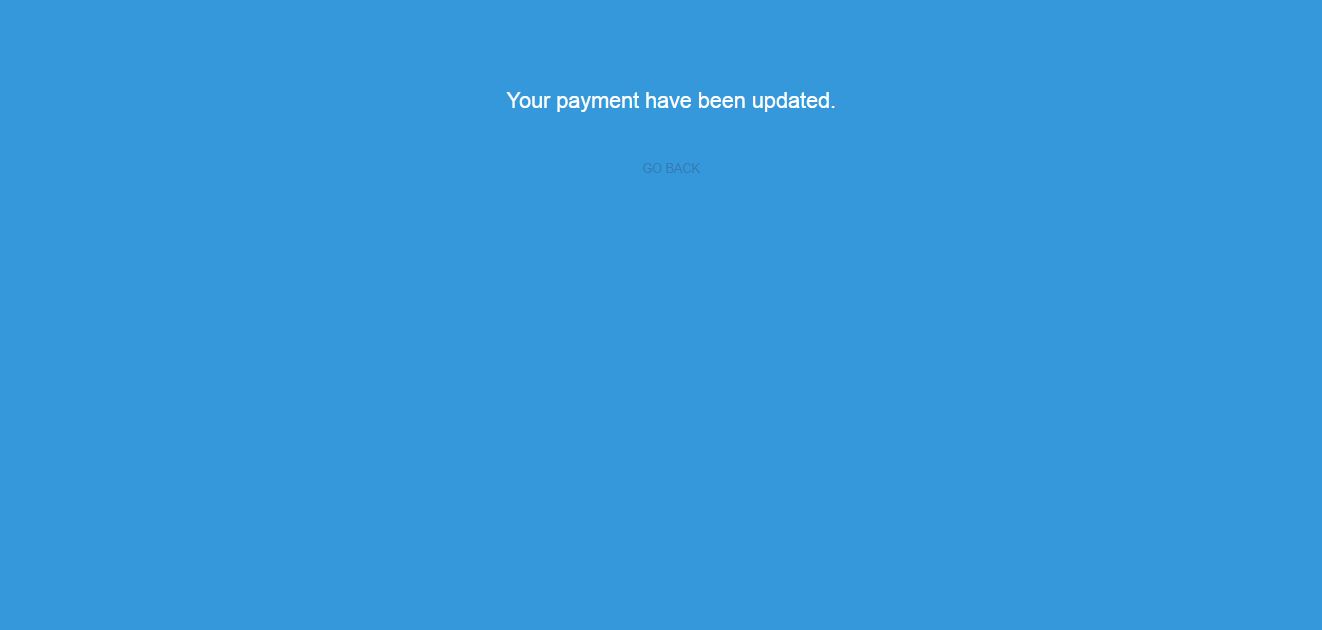
}

?>

</body>

</html>





<DOCTYPE hmtl>

<html lang="en">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

</head>

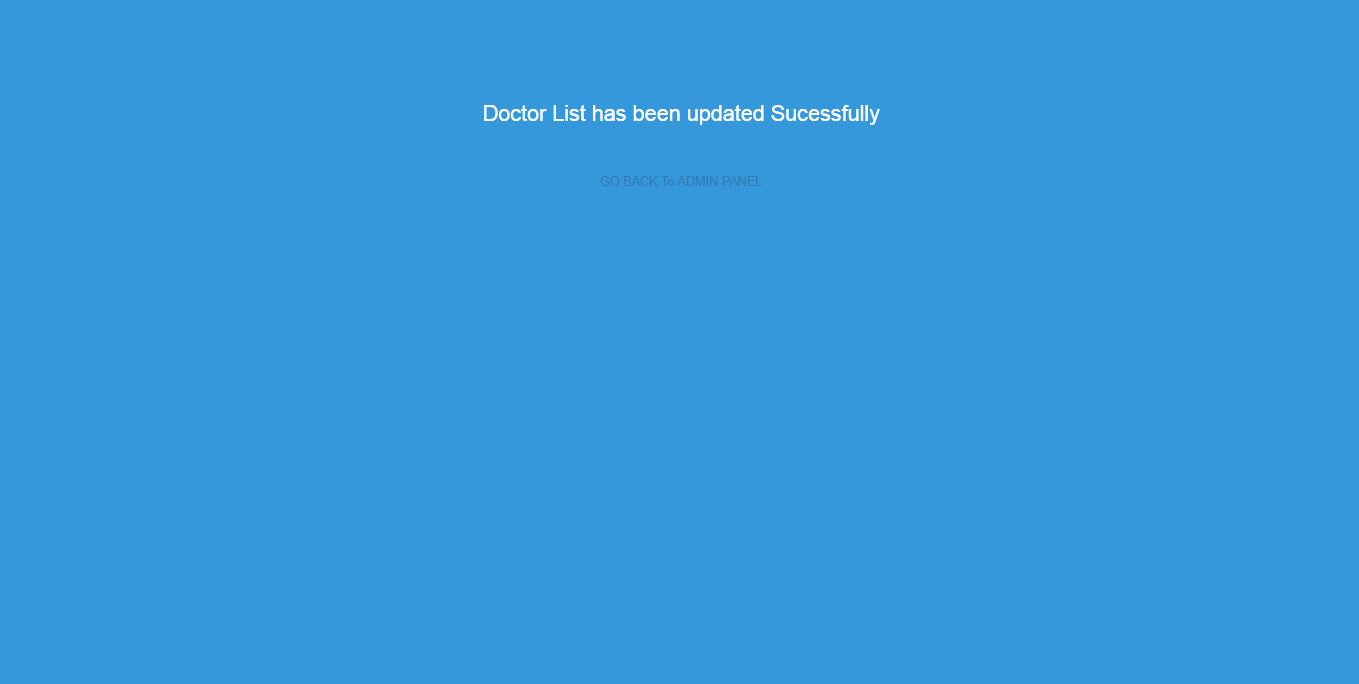
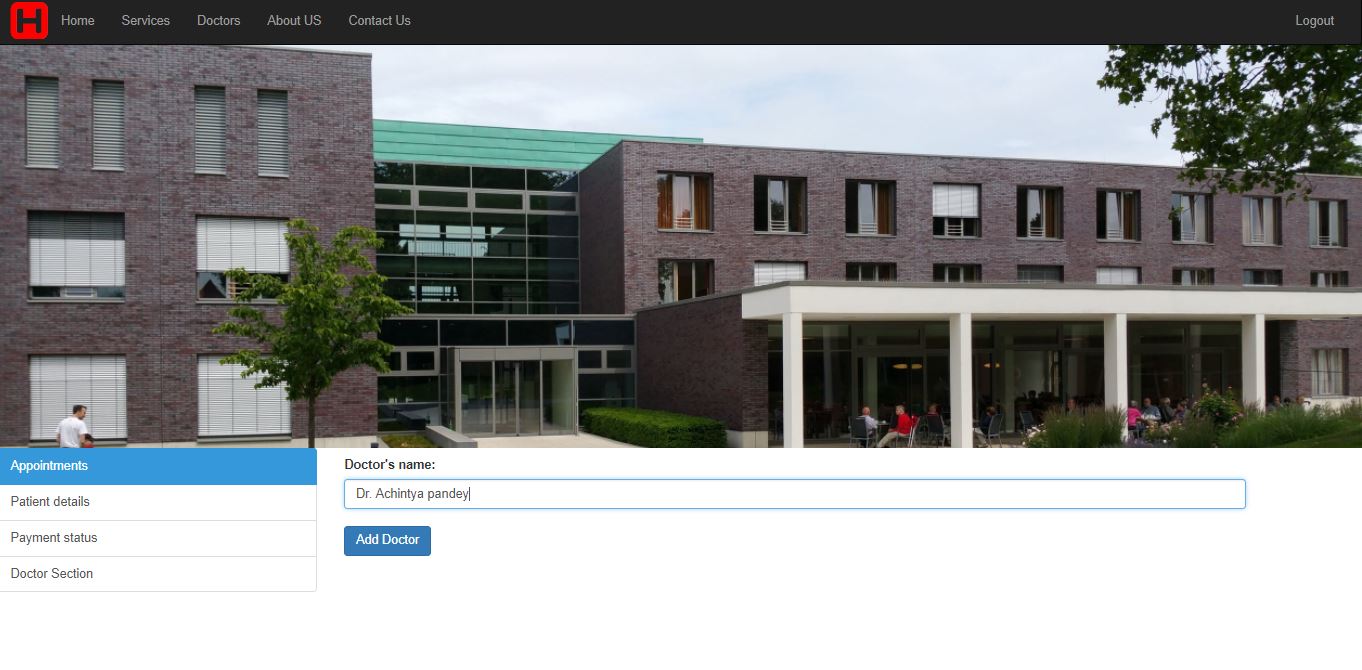
<body style="background-color:#3498DB;color:white;padding-top:100px;text-align:center;">

<h3 >Your payment have been updated.</h3><br><br>

<a href="adminpanel.php" class="btn btn-outline-light">GO BACK</a>

</body>

</html>



<!DOCTYPE html>

<?php include('func.php') ?>

<html>

<head>

<!--<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">

-->

<title>adminpanel</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

<style type="text/css">

.kartik{

background-image:url("background.jpeg");

width:100%;

height: 500px;

padding:0px;

background-size:cover;

background-repeat: no-repeat;

}

</style>

</head>

<body>

<div class="kartik">

<nav class="navbar navbar-inverse">

<div class="container-fluid">

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<i class="fa fa-h-square" style="font-size:48px;color:red"></i>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">

<ul class="nav navbar-nav">

<li><a href="adminpanel.php">Home</a></li>

<li><a href="#">Services</a></li>

<li><a href="#">Doctors</a></li>

<li><a href="#">About US</a></li>

<li><a href="#">Contact Us</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li><a href="index.php">Logout</a></li>

</div>

</ul>

</div><!-- /.navbar-collapse -->

</div><!-- /.container-fluid -->

</nav></div>

<div class="row">

<div class="col-md-3">

<div class="list-group">

<a href="adminpanel.php" class="list-group-item active" style="background-color:#3498DB;color:#ffffff;border-color:#3498DB">Appointments</a>

<a href="patientdetails.php" class="list-group-item">Patient details</a>

<a href="paymentstatus.php" class="list-group-item">Payment status</a>

<a href="adddoc.php" class="list-group-item">Doctor Section</a>

</div>

</div>

<div class="col-md-8">

<div class="card">

<div class="card-body">

<form class="form-group" method="post" action="func.php" style="padding-top:10px;">

<label>Doctor's name:</label>

<input type="text" name="doc" placeholder="enter doctor's name" class="form-control" required>

<br>

<input type="submit" value="Add Doctor" name="doc\_sub" class="btn btn-primary">

</form>

</div>

</div><br><br>

</div>

</div>

<div class="col-md-1"></div>

</div>

<div id="header"><marquee>Emergency Number: 044-47437500</marquee></div>

</body>

</html>

Func.php

<?php

session\_start();

$conn=mysqli\_connect("localhost","root","","hmsdb");

if(isset(($\_POST['login\_submit'])))

{

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

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

$query="select \* from logintb where username='$username' and password='$password'";

$result=mysqli\_query($conn,$query);

$row=mysqli\_num\_rows($result);

if($row==1)

{

$\_SESSION['username']=$username;

header("Location:adminpanel.php");

}

else

{

echo "<script>alert('enter correct credentials!')</script>";

echo "<script>window.open('index.php','\_self')</script>";

}

}

if(isset($\_POST['pat\_submit']))

{

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

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

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

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

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

$payment=$\_POST['pay'];

$query="insert into doctorapptb(fname,lname,email,contact,docapp,payment)values('$fname','$lname','$email','$contact','$docapp','$payment')";

$result=mysqli\_query($conn,$query);

if($result)

{

echo "<script>alert('Appointment registered!')</script>";

echo "<script>window.open('adminpanel.php','\_self')</script>";

}

}

function get\_patient\_details(){

global $conn;

$query="select \* from doctorapptb";

$result=mysqli\_query($conn,$query);

while($row=mysqli\_fetch\_array($result)){

$fname=$row['fname'];

$lname=$row['lname'];

$email=$row['email'];

$contact=$row['contact'];

$docapp=$row['docapp'];

$payment=$row['payment'];

echo "<tr>

<td>$fname</td>

<td>$lname</td>

<td>$email</td>

<td>$contact</td>

<td>$docapp</td>

<td>$payment</td>

</tr>";

}

}

if(isset($\_POST['update\_data']))

{

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

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

$query="update doctorapptb set payment='$status' where contact='$contact'";

$result=mysqli\_query($conn,$query);

if($result)

header("Location:updated.php");

}

function display\_docs()

{

global $conn;

$query="select \* from doctb";

$result=mysqli\_query($conn,$query);

while($row=mysqli\_fetch\_array($result))

{

$name=$row['addname'];

echo '<option value="'.$name.'">'.$name.'</option>';

}

}

if(isset($\_POST['doc\_sub']))

{

$addname=$\_POST['doc'];

$sql="insert into doctb(addname)values('$addname')";

// echo $addname;

$result= $conn->query($sql);

if($result)

{ echo $addname;

header("Location:docadded.php");

}

}

?>