Velammal College of Engineering & Technology, Madurai – 625009.

(An Autonomous Institution)

Department of Computer Science and Engineering

Academic Year: 2022 - 2023 (EVEN Semester)

B.E CSE - II YEAR - IV SEMESTER

21CS210 – Database Management Systems Laboratory

Mini Project

Hospital Database Management Systems

SUBMITTED BY,

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Mark Split up

S. No.	Criteria	Maximum Marks	Marks Obtained
1.	Application Complexity	05	
2.	Database Design	20	
3.	Frontend Design	15	
4.	Presentation	05	
5.	On time submission	05	
	Total	**50**	

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Associate Professor, CSE.

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Hospital Management Systems

1. Introduction

This project aims to computerize the operations of Hospital Management System database. Features of Hospital Management System are as follows: to fetch the appointment deatails of doctor and to fetch the daily schedule of the doctor and to register the patients who are new to the particular hospital.

2. Application Users

The users of the system is the public. All the patients and doctors can view only their own Appointments and schedule respectively.

3. Functions Overview

The following functionality will be supported by the farm database management system.

1. Patient login,doctor login
2. Regiseter the new patients make the appointment

4. Detailed Functional Requirements

Patient login,doctor login

If the patient is already exist in the hospital they are provided with their own patient id it will be unique for every patient,they can login with their patient id and name while login their appointment details will be displayed as same as every doctors in the hospital provided with their own doctor id while login doctors can see their daily schedule.

Regiseter the new patients make the appointment

To make appointment if patient already exist he/she can able to make appointment via their mail id if not they have to register first after registration their details added in the database called register patients the appointment details will be send to the respective patients and then have to come hospital.
First their problem will be identified after that another appointment will be provided with the doctors according to their diease after their test report the appointment will be scheduled and send to their respective mail id.

5. Software and Hardware Requirements

Front end Tool : Netbeans 8.1

ServerSide programming : PHP

Backend DataBase : phpmyadmin

6. Performance Requirements

Capacity Requirements : 2 users (PATIENT/DOCTOR) Sample
Data Base Size : 10 to 20 tuples
Response time : 1micro seconds
Through put : Average transaction per minute may be 3

7. Validation Criteria

We will load the database with sample data of 7 doctors and 10 Patient details for testing. We will test the system by adding items to the database to make appointment and schedule the work

8. Entities and Relationships

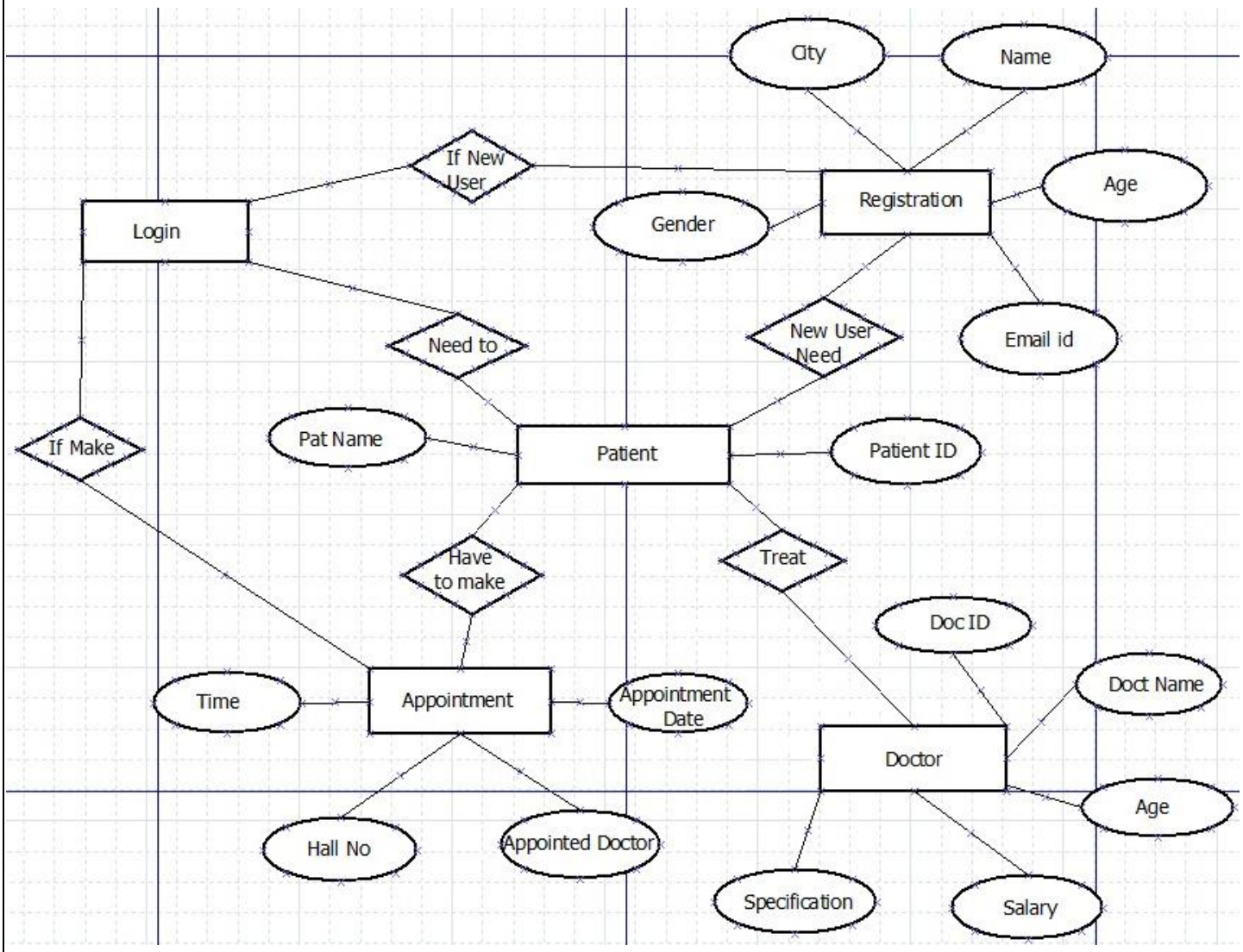
1. Entities

1. doctor
2. patient
3. Appointment
4. Registration
5. login

2. Relationships

1. Doctor treats patient
2. Patient have to make appointment
3. Patient new user need Registration
4. Patient need to login to make Appointment

9. ER Diagram



10. Functional Dependencies and Normalization

The initial relational schema from the ER diagram.

SCHEMA:

1. doctors(Doctor_name, Doctor_id, Age, Salary,Specification)

2. patlist(pat_name, pat_id, Age, Appointment_date, Appointed_doctor, Hall_no, time)

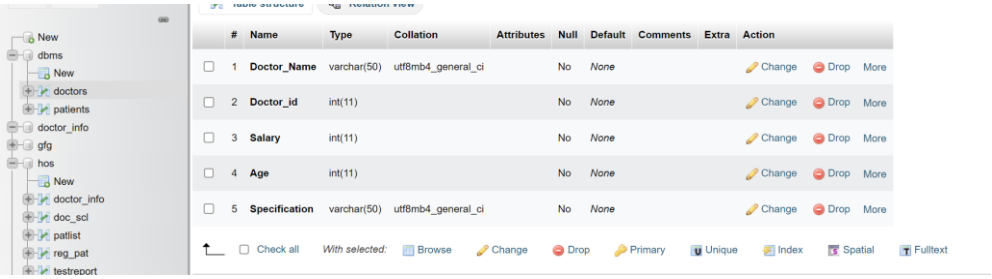
3. doc_scl(Doctor_Name, Doctor_id, 8 am to 10 am, 10:30 am to 1 pm, 2 pm to 4 pm)

4.reg_pat(name, age, emailid, gender, city)

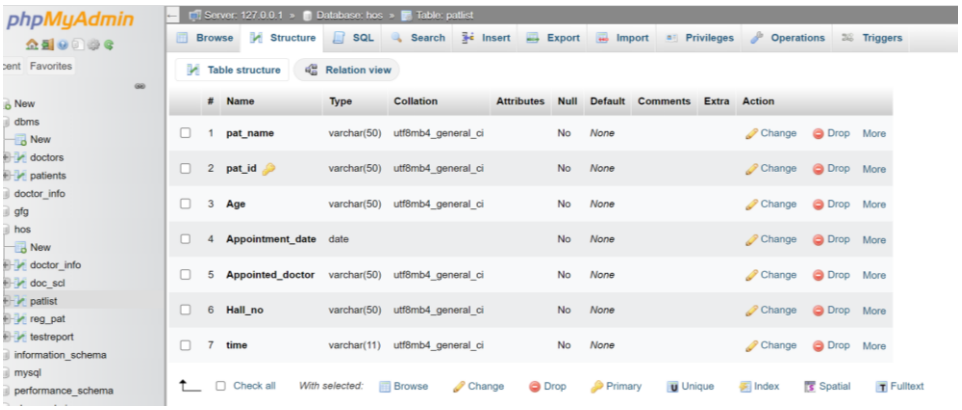
5.testreport(pat_name, pat_id, Age, diease identified, stage, testid)

11. Data Dictionary

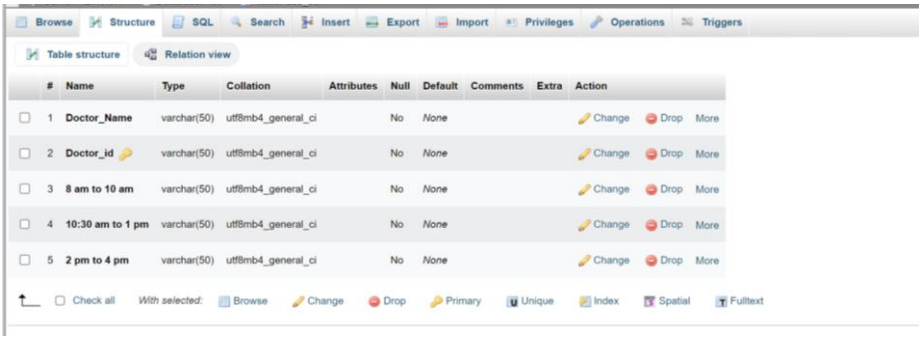
DOCTOR REALATION:



PATIENT LOGIN RELATION:



DOCTOR LOGIN RELATION



REG_PAT RELATION

Server: 127.0.0.1 » Database: hos » Table: reg_pat

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
2	age	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
3	emailid	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
4	gender	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
5	city	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext

TESTREPORT RELATION

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	pat_name	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
2	pat_id	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
3	Age	int(50)			No	None			Change Drop More
4	diease identified	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
5	stage	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
6	testid	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial F

Hospital Management Systems

12.Database Creation

DOCTOR RELATION

Extra options

Doctor_Name	Doctor_id	Salary	Age	Specification
Keerthana	11	70000	25	cardiologist
Anushkha	12	80000	24	Cardiologist
vishal	15	85000	24	dentist
Thirukannan	20	90000	30	ENT specialist
kathir	22	60000	23	Paediatrician
sathana	26	85000	27	Gynaecologist
Revathy	30	90000	28	Pulmonologist

Show all | Number of rows: 25 Filter rows: Search this table

PATIENT LOGIN RELATION

pat_name	pat_id	Age	Appointment_date	Appointed_doctor	Hall_no	time
Abinaya	p1	19	2023-04-12	Dr.Keerthana	g7	10 AM
Bindhu	p2	21	2023-04-01	Dr.Keerthana	g7	2 PM
Barath	p3	24	2023-04-18	Dr.Moorthy	F1	1 PM
Dhivya	p4	22	2023-04-23	Dr.vasugi	F6	4 PM
Elavarasi	p5	30	2023-04-14	Dr.vasugi	F6	12 PM

lected: Edit Copy Delete Export

DOCTOR LOGIN RELATION

Extra options

				pat_name	pat_id	Age	Appointment_date	Appointed_doctor	Hall_no	time
Edit	Copy	Delete		Abinaya	p1	19	2023-04-12	Dr.Keerthana	g7	10 AM
Edit	Copy	Delete		Bindhu	p2	21	2023-04-01	Dr.Keerthana	g7	2 PM
Edit	Copy	Delete		Barath	p3	24	2023-04-18	Dr.Moorthy	F1	1 PM
Edit	Copy	Delete		Dhivya	p4	22	2023-04-23	Dr.vasugi	F6	4 PM
Edit	Copy	Delete		Elavarasi	p5	30	2023-04-14	Dr.vasugi	F6	12 PM

Check all *With selected:* Edit Copy Delete Export

REGISTER PATIENT LOGIN

	name	age	emailid	gender	city
Edit Copy Delete	Abc	27	aaa@gmail.com	female	tvm
Edit Copy Delete	Rithi	20	abc@gmail.com	female	tvm
Edit Copy Delete	Abinaya	19	abi@gmail.com	female	madurai
Edit Copy Delete	Rithik	19	asdf@gmail.com	male	Dharmapuri
Edit Copy Delete	bbb	20	bbb@gmail.com	male	madurai
Edit Copy Delete	ccc	20	ccc@gmail.com	male	virudhunagar
Edit Copy Delete	Dhivya	20	cvbng@gmail.com	female	madurai
Edit Copy Delete	ddd	20	ddd@gmai.com	female	tvm
Edit Copy Delete	Dhivya	22	dhivya@gmail.com	female	Dharmapuri
Edit Copy Delete	Rithik	24	Rithik@gmail.com	male	virudhunagar

Check all *With selected:* Edit Copy Delete Export

TESTREPORT RELATION

	pat_name	pat_id	Age	diease identified	stage	testid
Edit Copy Delete	Abinaya	p1	25	stone in kidney	beginner	T1S
Edit Copy Delete	Bindhu	p2	43	sugar	intermediate	T2S
Edit Copy Delete	Elavarasi	p3	20	Diarrhea	intermediate	T6S
Edit Copy Delete	dhivya	p4	32	stomach pain due to cryst	intermediate	T3S
Edit Copy Delete	bharath	p5	24	Conjunctivitis	beginner	TS5

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

13. Database Connectivity

Patlogin.php

```
<!DOCTYPE html>

<html>

<body class="v">

<link rel="stylesheet" href="style.css">

<?php


$servername = "localhost";

$username = "root";

$password = "";

$dbname = "hos";

$name=$_POST['user'];

$id=$_POST['id'];

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error) {

die("Connection failed: " . $conn->connect_error);

}


$sql = "SELECT * FROM patlist where pat_id='$id'";

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


if ($result->num_rows > 0) {
```

```
// output data of each row

while($row = $result->fetch_assoc()) {

echo "<h1 class='h'>Hello {$name} ! </h1> <p>Your Appointment
scedule</p>";

echo "<br> patient name: ". $row["pat_name"]."<br>";

echo "<br> patient id: ". $row["pat_id"]."<br>";

echo "<br> Age: ". $row["Age"]."<br>";

echo "<br> Appointment date: ". $row["Appointment_date"]."<br>";

echo "<br> Appointed doctor: ". $row["Appointed_doctor"]."<br>";

echo "<br> hall no: ". $row["Hall_no"]."<br>";

echo "<br> Time: ". $row["time"]."<br>";

}

} else {

echo "sorry!no such result";

}



$conn->close();

?>



</body>

</html>
```

Doctorloin.php

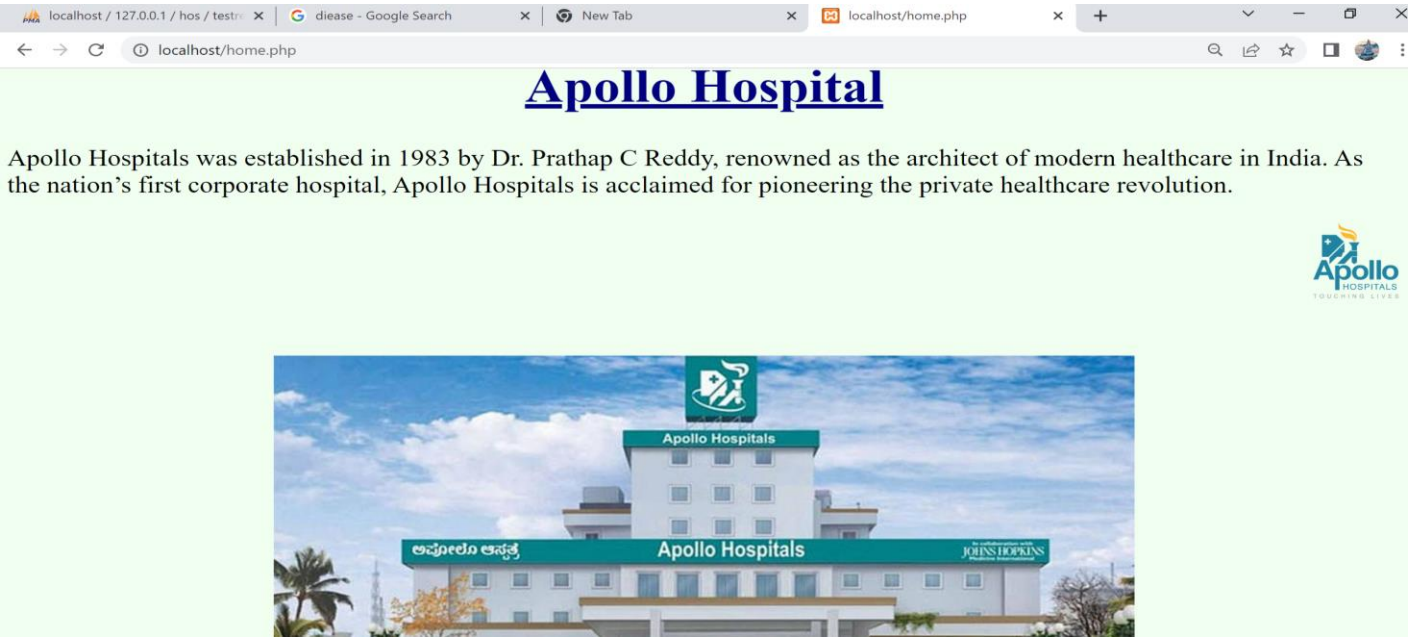
```
<!DOCTYPE html>
<html>
<head>
<style>
body{
background-color: linen;
color: maroon;
```

```
border-style: double;
border-width: medium;
border-color: orange;
 margin-top: 100px;
  margin-bottom: 100px;
  margin-right: 350px;
  margin-left: 100px;
text-align: justify;
}

</style>
<body>

<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "hos";
$id=$_POST['id'];
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT * FROM doc_scl where Doctor_id='$id'";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
                    echo "<p>Your's Today scedule</p>";
                    echo "<br> Doctor name: ". $row["Doctor_Name"]."<br>";
                    echo "<br> Doctor id: ". $row["Doctor_id"]."<br>";
                    echo "<br> 8 am to 10 am: ". $row["8 am to 10 am"]."<br>";
                    echo "<br> 10:30 am to 1 pm: ". $row["10:30 am to 1 pm"]."<br>";
        echo "<br> 2 pm to 4 pm: ". $row["2 pm to 4 pm"]."<br>";


    }
} else {
    echo "Oops!! No such record in the detail of you entered";
}

$conn->close();
?>

</body>
</html>
```

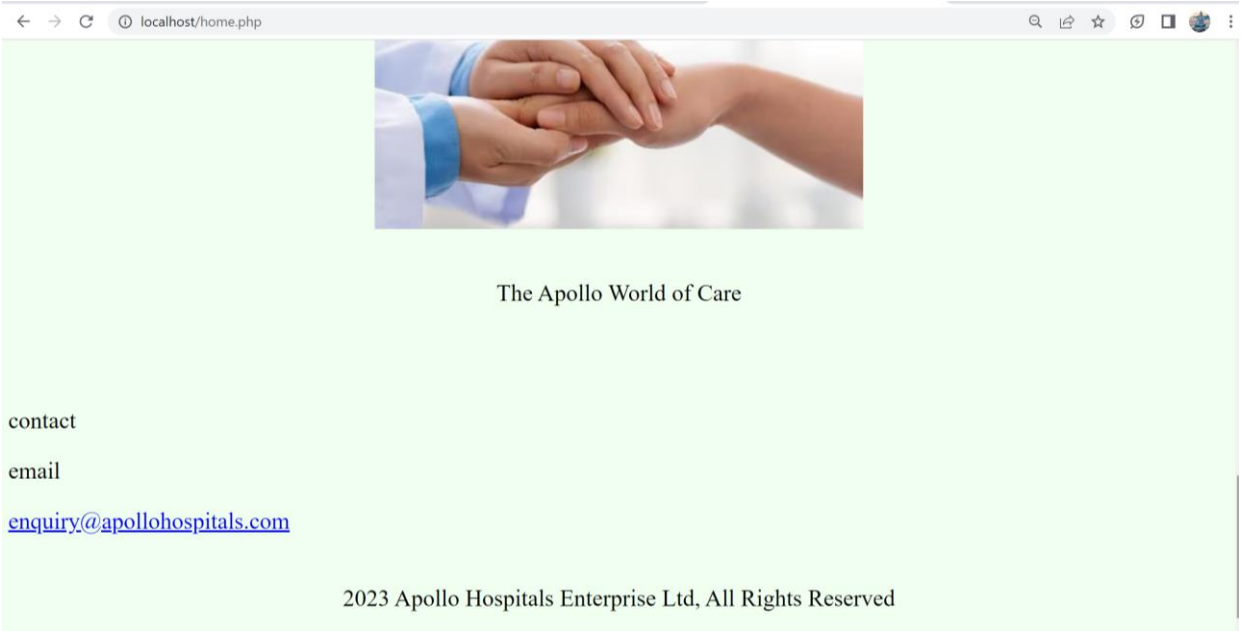
Reg_pat.php

```
<html>
<body class="pr">
<?php
  $name = $_REQUEST['t1'];
                                        $age = $_REQUEST['t2'];
                                      $emailid = $_REQUEST['t3'];
                                 $gender= $_REQUEST['t4'];
                                      $city= $_REQUEST['t5'];
      $servername="localhost";
      $username="root";
      $password="";
      $database='hos';
      $conn=new mysqli($servername,$username,$password,$database);
      if(strlen($name)==0)
          {
              echo "Enter the field";
          }
      else if(strlen($emailid)<8)
           echo "emailid must be contain more than 8 characters";
      if(strlen($emailid)>=8 && strlen($name)>0)
          {
          $sql="insert into reg_pat values('$name','$age','$emailid','$gender','$city')";
          if ($conn->query($sql) === TRUE)
          {

                                                    echo    "<h1>You are registered $name!!!</h1>";
 echo "<p>further details will be sent your mail kindly check for the information.</p>";
 echo "<p>Thank you...</p>";
 echo "<p>if you didn't receive any mail kindly contact</p>";
          }
          }
      $conn->close();
  ?>
  </div>
 </body>
</style>
  </html>
```

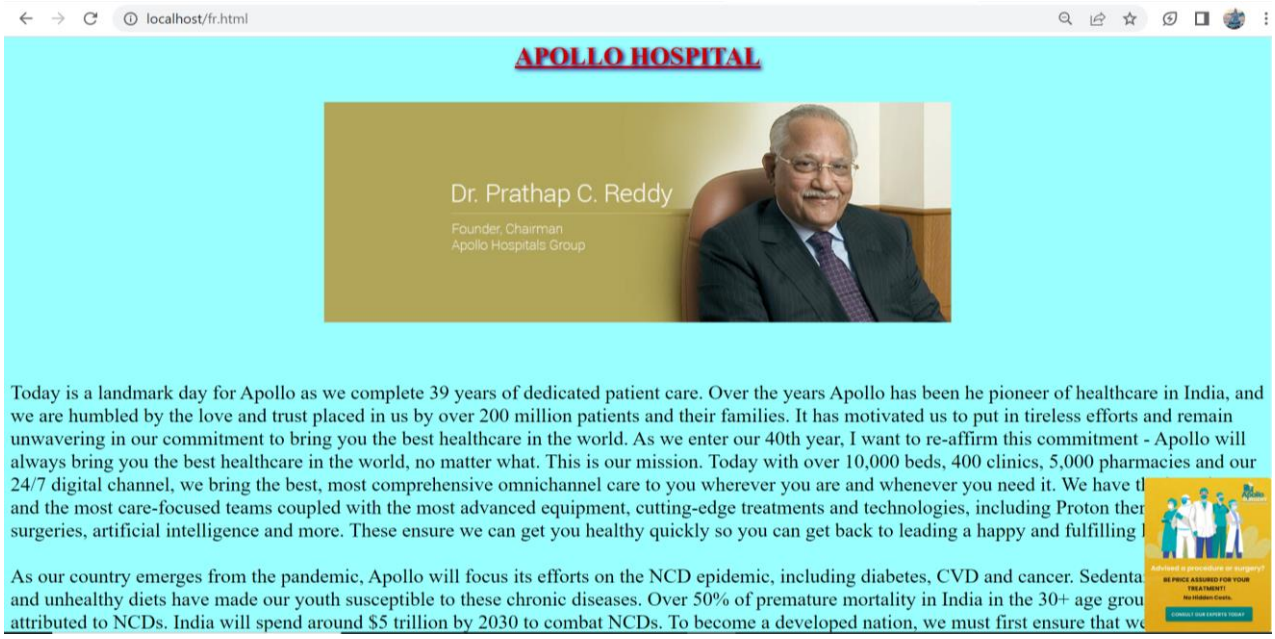
Home.php


localhost / 127.0.0.1 / hos / testr
diease - Google Search
New Tab
localhost/home.php
localhost/home.php
Apollo Hospital
Apollo Hospitals was established in 1983 by Dr. Prathap C Reddy, renowned as the architect of modern healthcare in India. As the nation's first corporate hospital, Apollo Hospitals is acclaimed for pioneering the private healthcare revolution.
Apollo
HOSPITALS
Apollo Hospitals
Apollo Hospitals
JOHNS HOPKINS

localhost/home.php
Click here the link to know about it
Home
here you can know About the hospital and fcilities Available here
Patient login
Those who are given login by hospital can login here to see your Appointments
Doctor login
Doctors can see Your daily schedule here with your login


localhost/home.php
The Apollo World of Care
contact
email
enquiry@apollohospitals.com
2023 Apollo Hospitals Enterprise Ltd, All Rights Reserved

Fr.html


localhost/fr.html
APOLLO HOSPITAL
Dr. Prathap C. Reddy
Founder, Chairman
Apollo Hospitals Group
Today is a landmark day for Apollo as we complete 39 years of dedicated patient care. Over the years Apollo has been he pioneer of healthcare in India, and we are humbled by the love and trust placed in us by over 200 million patients and their families. It has motivated us to put in tireless efforts and remain unwavering in our commitment to bring you the best healthcare in the world. As we enter our 40th year, I want to re-affirm this commitment - Apollo will always bring you the best healthcare in the world, no matter what. This is our mission. Today with over 10,000 beds, 400 clinics, 5,000 pharmacies and our 24/7 digital channel, we bring the best, most comprehensive omnichannel care to you wherever you are and whenever you need it. We have th
and the most care-focused teams coupled with the most advanced equipment, cutting-edge treatments and technologies, including Proton ther
surgeries, artificial intelligence and more. These ensure we can get you healthy quickly so you can get back to leading a happy and fulfilling l
As our country emerges from the pandemic, Apollo will focus its efforts on the NCD epidemic, including diabetes, CVD and cancer. Sedenta
and unhealthy diets have made our youth susceptible to these chronic diseases. Over 50% of premature mortality in India in the 30+ age grou
attributed to NCDs. India will spend around $5 trillion by 2030 to combat NCDs. To become a developed nation, we must first ensure that we

localhost/fr.html
FACILITIES AVAILABLE
S.NO FACILITIES
1 Customized Preventive Health Checks
2 Outpatient Facilities
3 Priority Admission
4 Comprehensive Surgical Packages
5 Multi-cuisine F&B Service image
here is the lastest event and updates click the below link

localhost/fr.html
Latest Updates on News & Events - Apollo Hospital Chennai
Now Apollo centres in
welcome to the new centres
Trichy
Vellore
salem
Madurai
kodaikanal
ABOUT APOLLO HOSPITAL

Event.html

localhost/event.html

Latest Updates on News & Events - Apollo Hospital Chennai

1.Apollo Simulation Centre Signs MoU With The Tamil Nadu Nurse And Midwives Council To Implement Competency Based Training For Student Nurses

Apollo Simulation Centre at Apollo Speciality Hospitals, Vanagaram has signed a MoU with Tamil Nadu Nurse and Midwives Council to implement competency based training through simulation technique for student nurses. The memorandum was signed by Dr. Ani Grace Kalaimathi, Registrar on behalf of TNNMC and Dr. Muralidharan M, Director Apollo Simulation Centre and DME and Vice President, Apollo Knowledge, in the presence of Padmavibushan Dr. Prathap C Reddy, Founder and Chairman, Apollo Hospitals Group, Mr. Sivaramakrishnan Venkateswaran, CEO, Apollo Knowledge and Dr. Anupam Sibal, Group Medical Director, Apollo Hospitals. Simulation-based training has been made mandatory, based on the new curriculum implemented by the Indian Nursing Council.

2.Asiaâ€™s First Radical Pleurectomy With HITHOC Was Successfully Performed On An Adolescent With Ewingâ€™s Sarcoma At Apollo Proton Cancer Centre.

localhost/event.html

3.Asiaâ€™s First Brain Bypass Surgery Was Successfully Performed By Apollo Proton Cancer Centre On 8-Year-Old Twins Diagnosed With A Rare Disease.

This was the first case witnessed in Asia of Moyamoya diseaseâ€"a rare blood vessel (vascular) disorder in which the carotid artery in the skull is blocked or narrowedâ€"reduces blood flow to the brain. The condition was diagnosed in eight-year-old twin girls. Over the years, one of the twins developed vague symptoms like jerky movements in the right hand and leg. The persistent symptoms concerned parents who sought the neurologistâ€™s opinion. The MRI scan of the brain showed that the blood supply to the brain was significantly compromised on both sides of the brain, especially on the left.

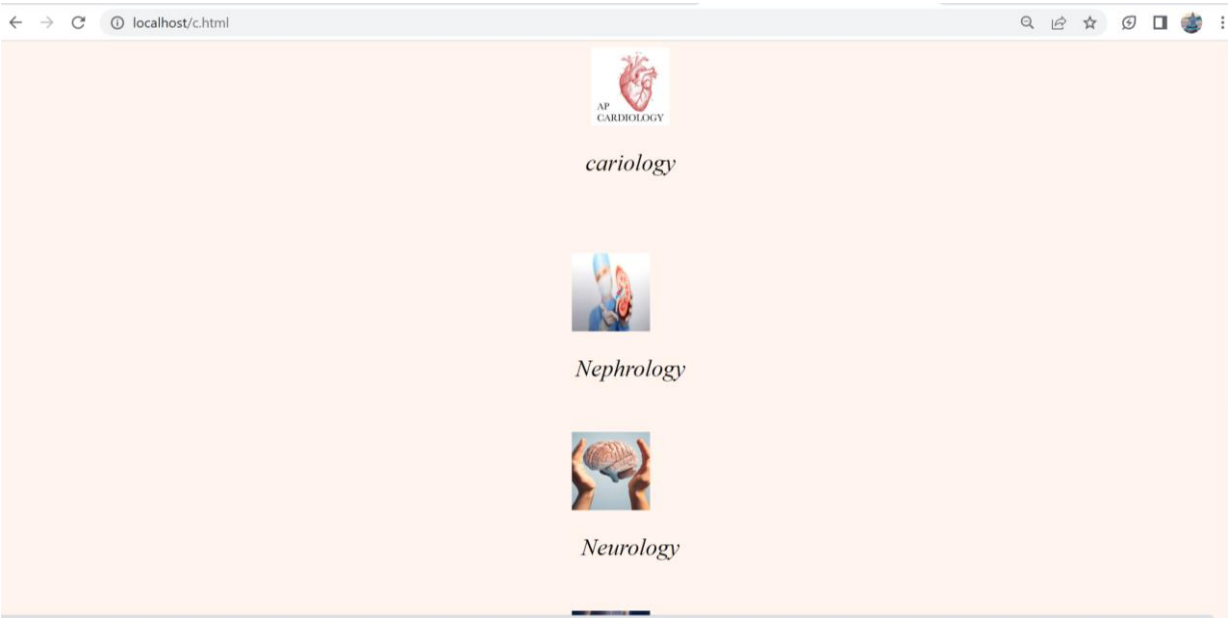
4.Apollo Cancer Centers Launched ArtCan, An Initiative To Raise Awareness About Breast Cancer.

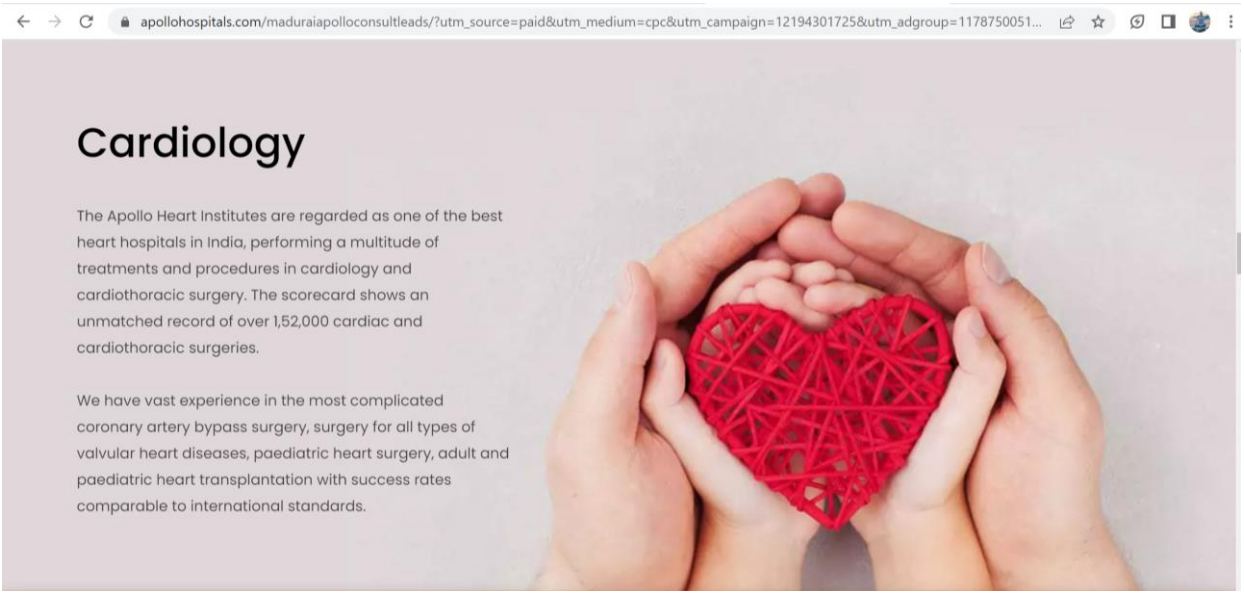
Through ancient Kerala Mural Art, 8 steps of self-breast examination brought attention to the issue of breast cancer. Each frame reflected the story of a woman who discovered this condition while performing a self-breast examination, acted on time and defeated cancer. These eight steps have also been depicted in a book format called â€˜Chitra Sutraâ€™

click here to know the speciality of the Apollo hospital

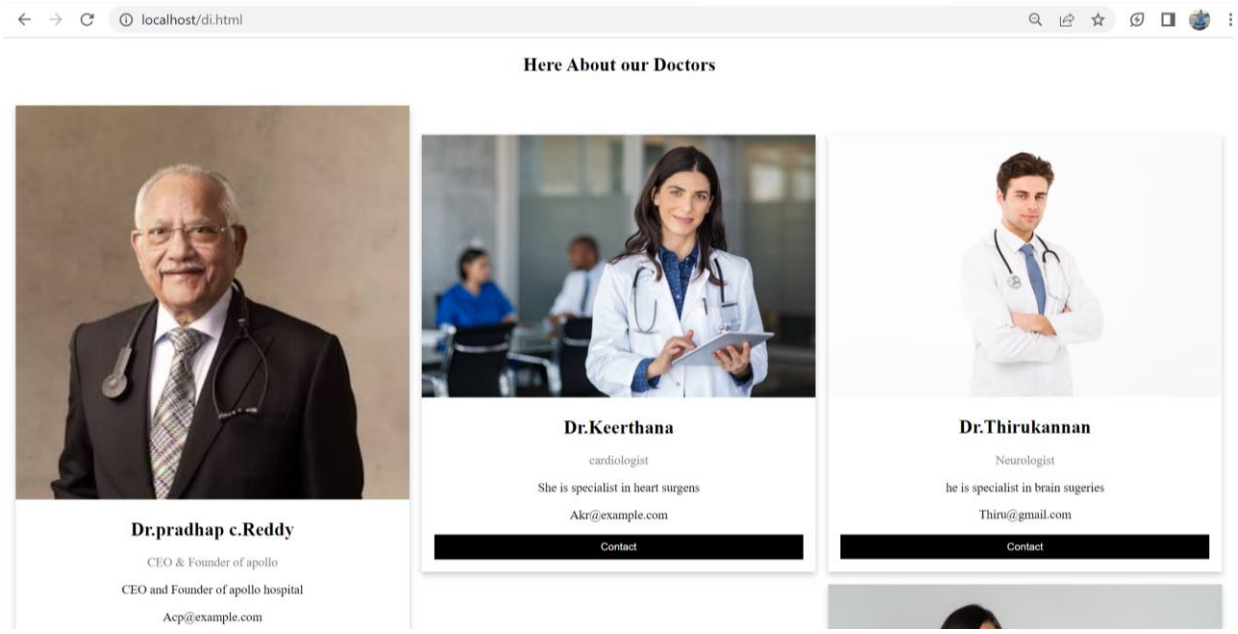
centre of excellence

c.html

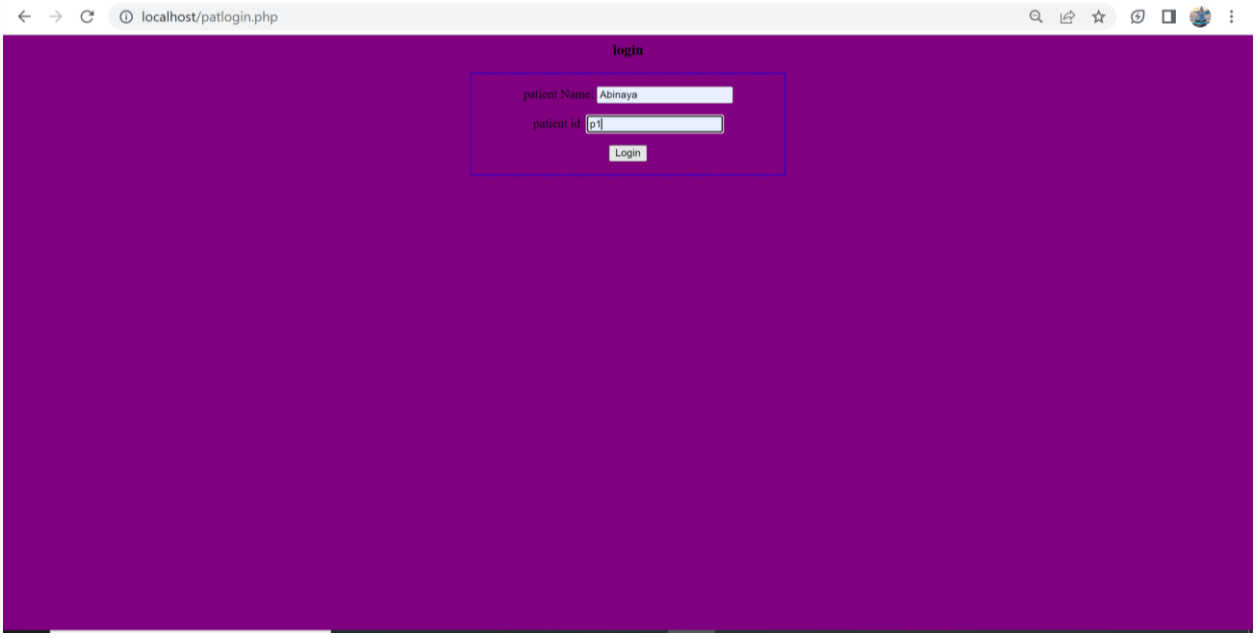

localhost/c.html
AP CARDIOLOGY
cariology
Nephrology
Neurology


apollohospitals.com/maduraiapolloconsultleads/?utm_source=paid&utm_medium=cpc&utm_campaign=12194301725&utm_adgroup=1178750051...
Cardiology
The Apollo Heart Institutes are regarded as one of the best heart hospitals in India, performing a multitude of treatments and procedures in cardiology and cardiothoracic surgery. The scorecard shows an unmatched record of over 1,52,000 cardiac and cardiothoracic surgeries.
We have vast experience in the most complicated coronary artery bypass surgery, surgery for all types of valvular heart diseases, paediatric heart surgery, adult and paediatric heart transplantation with success rates comparable to international standards.

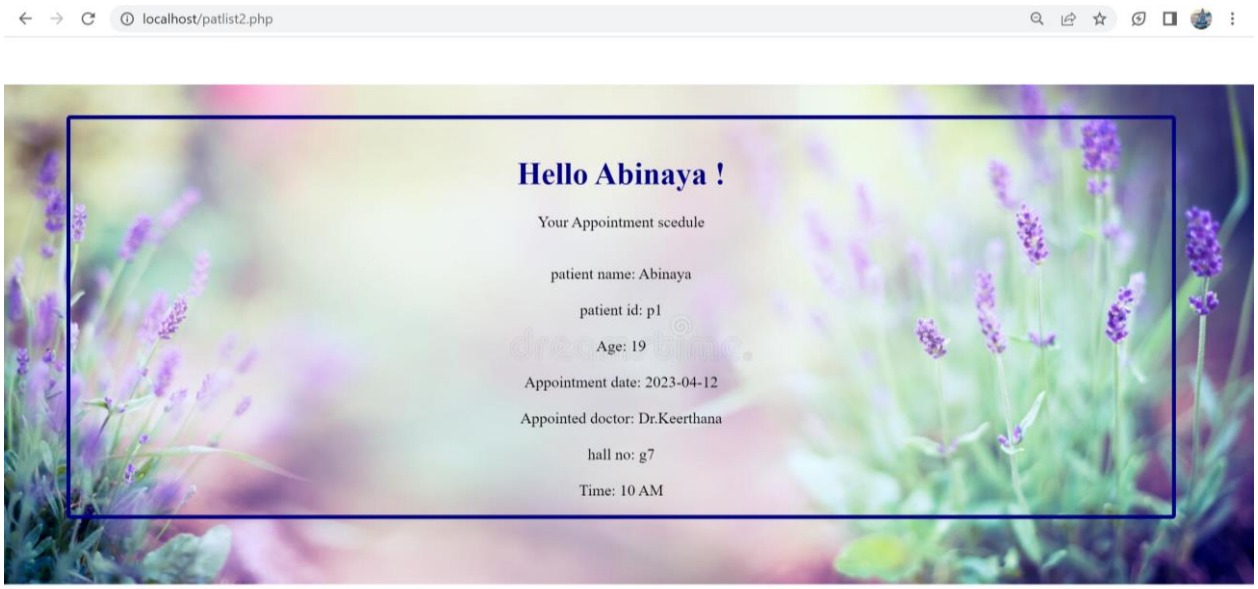
di.html



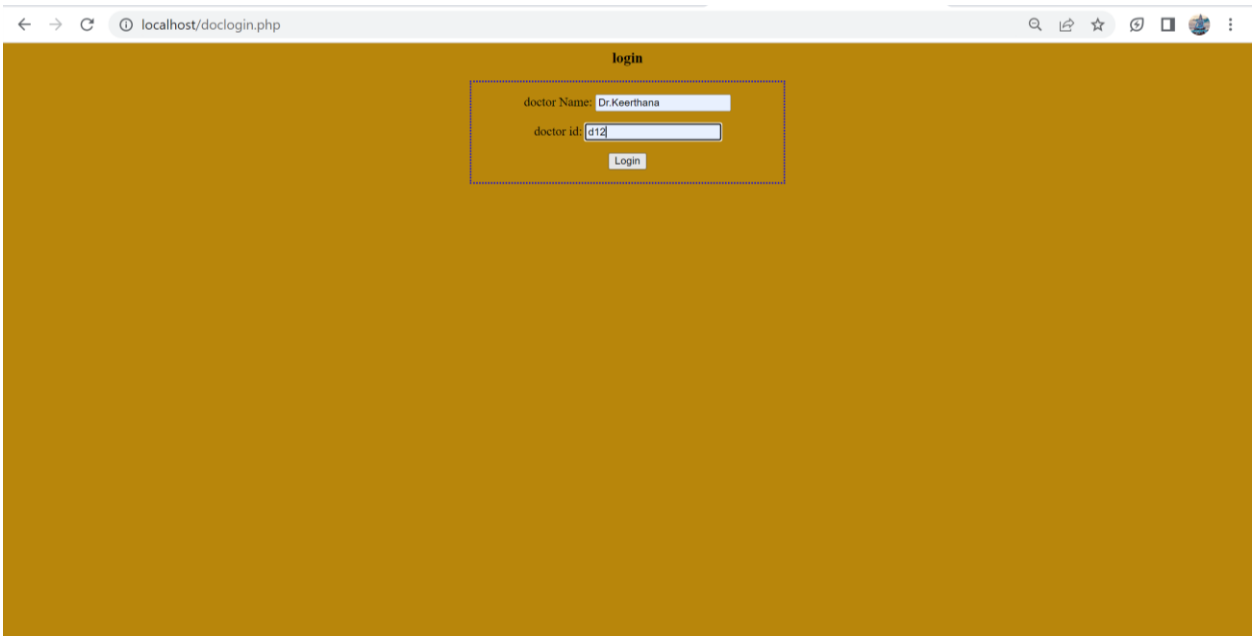
Pat.login.php



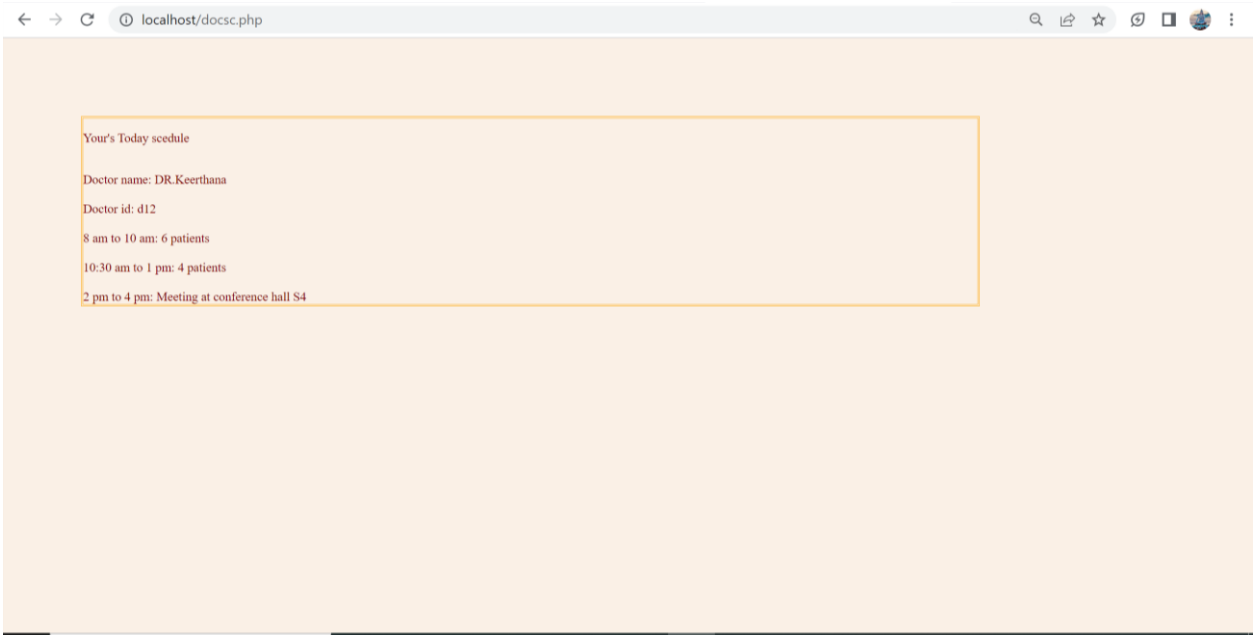
Patlist2.php



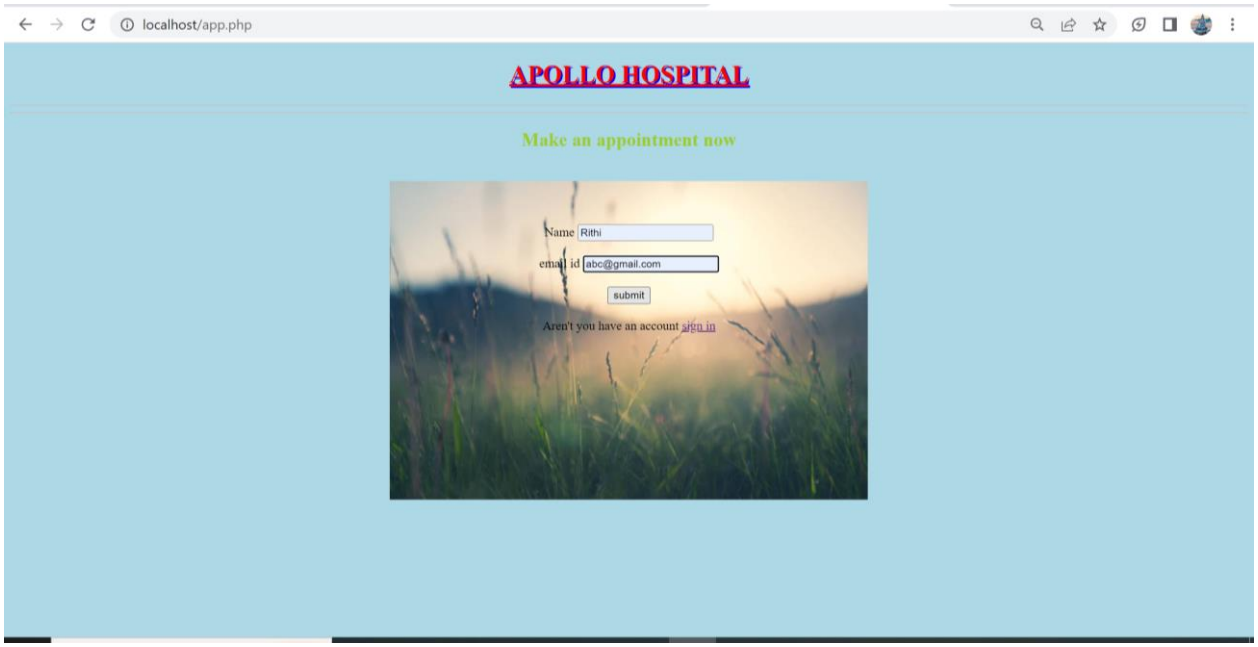
Doclogin.php



Docsc.php

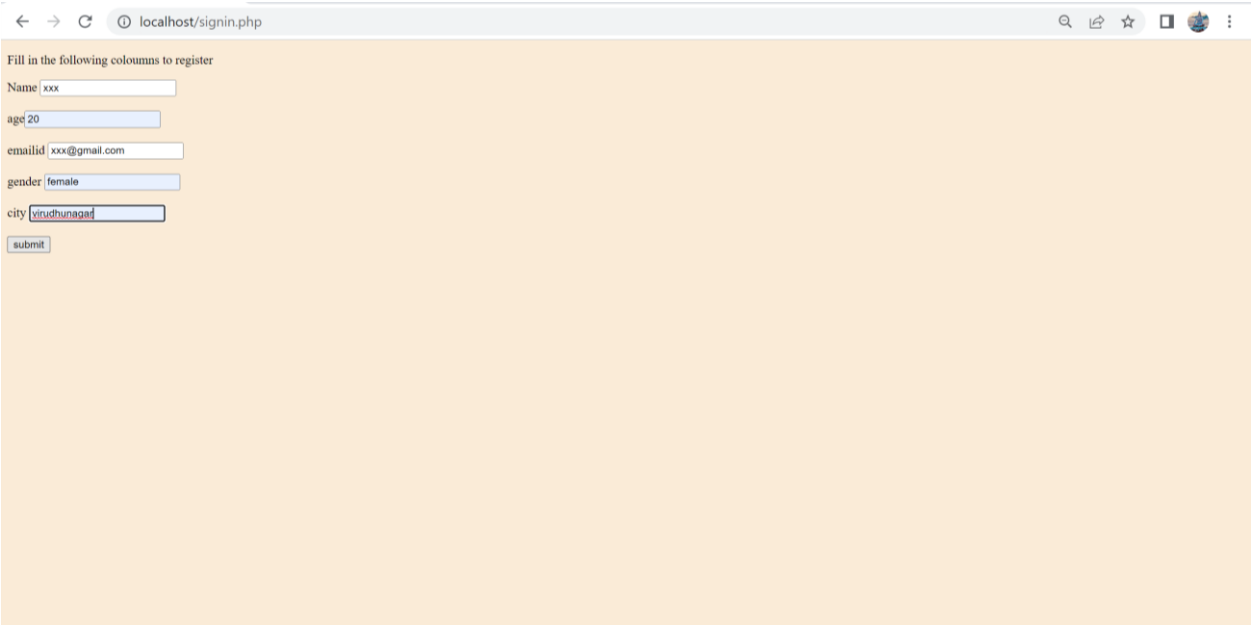


App.php

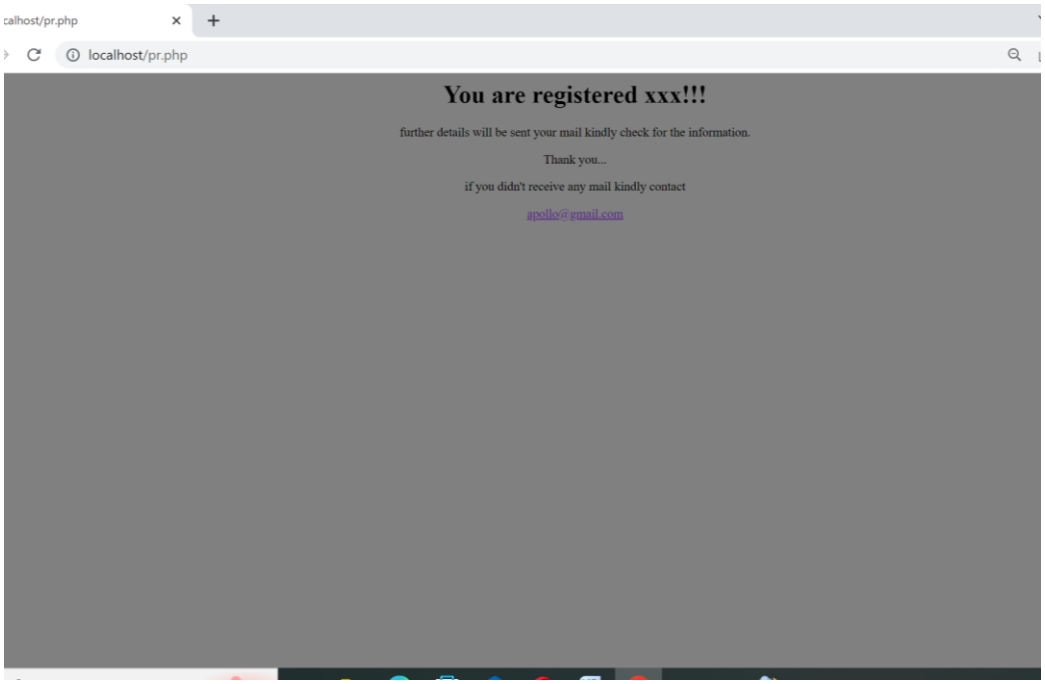


Sub.php

App.php



Pr.php



15.CONCLUSION

The hospital Management system used to fetch information from the database and to update using this patients can easily Know their Appointments and doctors can see their schedules so that patient doesn't come to hospital frequently they Shall come only when needed and the Management can update the informations about the data.

16.REFERENCES

1. https://stackoverflow.com/
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