



The British College
Kathmandu

Advance web engineering

Name: Ravi Prakash Yadav
ID: 77298004

Table of Contents

Introduction	3
Introduction to Hospital Management System (HSM)	3
Key Features:.....	3
Conclusion.....	4
Version control.....	5
Part 1.....	7
Version control.....	7
Interface before login	8
Login page	8
Register page	9
Validation check.....	9
Authentication check	10
User interface after login	11
Booking appointments before and after login.....	11
My appointment	12
Contact us form.....	13
About-us.....	13
Logout section.....	14
Interface.....	14
Our doctors with pagination	15
Interface.....	15
Starts with adding a doctor.....	16
Appointment with sort by functionality	16
All doctors with search functionality	17
Update doctor features	17
Code show.....	18
Controllers.....	21
Code from the home controller	27
Database	30
Doctor table	30

Introduction

Introduction to Hospital Management System (HSM)

Welcome to the Hospital Management System (HSM), a comprehensive and user-friendly platform designed to streamline healthcare operations, enhance patient experiences, and facilitate efficient management within a medical facility.

Key Features:

1. **User-Friendly Interface:** HSM provides an intuitive and user-friendly interface, ensuring seamless navigation for both patients and administrators.
2. **Appointment Booking:** Patients can effortlessly book appointments, either as registered users or guests, choosing their preferred doctor, date, and time for consultation.
3. **Personalized Patient Profiles:** Registered users enjoy personalized profiles, allowing them to track their appointment history, view appointment statuses, and receive notifications.
4. **Doctor Management:** Admins have the power to manage doctors efficiently. They can add new doctors, update their information, and remove outdated entries to maintain an up-to-date database.
5. **Appointment Approval Workflow:** After patients book appointments, administrators can review and approve requests. Approved appointments trigger notifications, ensuring patients are informed promptly.
6. **Notification System:** Patients receive real-time notifications about appointment approvals, cancellations, and other updates, keeping them informed and engaged.
7. **About Us Section:** Learn more about the hospital through the "About Us" section, providing insights into the institution's mission, vision, and commitment to healthcare excellence.

8. **Contact Information:** Easily reach out to the hospital with the provided contact information. Whether it's for inquiries, feedback, or emergencies, the contact section ensures smooth communication.
9. **Secure Authentication:** Prioritize security with a robust authentication system. Registered users can log in securely, ensuring their personal health information is confidential.
10. **Logout Functionality:** Users can securely log out of their accounts, providing an additional layer of data protection.


Conclusion:

Hospital Management System (HSM) is not just a platform; it's a dynamic solution catering to the evolving needs of modern healthcare. Whether you are a patient seeking convenient appointments or an administrator managing the intricacies of a medical facility, HSM is designed to deliver efficiency, transparency, and a superior healthcare experience for all.

Experience the future of healthcare management with HSM - where technology meets compassionate patient care.

Version control

GitHub link: <https://github.com/tbc-bsc-16/component-2-raviroyy>


tbc-bsc-16 / component-2-raviroyy

[Code](#)
[Issues](#)
[Pull requests](#)
[Actions](#)
[Projects](#)
[Security](#)
[Insights](#)
[Settings](#)

Commits

master
All users
All time

Commits on Jan 17, 2024

final commit
raviroyy committed 1 minute ago
7db2b8e

shortby is included
raviroyy committed 2 minutes ago
237ae45

Commits on Jan 11, 2024

changes in design and added contact us
raviroyy committed last week
7b83ed6

Commits on Jan 10, 2024

making changes in the form
raviroyy committed last week
fcf79ee

Commits on Jan 6, 2024

fixing all the error from admin controller and homecontroller
raviroyy committed 2 weeks ago
3cb8654

fixing bug of templete
raviroyy committed 2 weeks ago
a9777b0

edit option has been created for doctor so when they want to update their phone or info admin can view that
raviroyy committed 2 weeks ago
e6b7b68

all doctor are shown along with their detials in admin section and we can also now delete and update doctor
raviroyy committed 2 weeks ago
c8406f8

approve and cancel used from admin pannel created along with appointment section in dashboard
raviroyy committed 2 weeks ago
668cd31

Commits on Jan 5, 2024





























cancel function is created for the user to cancel their appointment if required
raviroyy committed 2 weeks ago
94e35f9

show my appointment being added for the loggedin user
raviroyy committed 2 weeks ago
0504402

appointment has been created for logged in or not loggedin user where loggedin usr has user id and not logdin with userid null
raviroyy committed 2 weeks ago
2d918d3

certain changes in admin and user form in homecontroller and route
raviroyy committed 2 weeks ago
34bd9ed

admin doctor adding form added
raviroyy committed 2 weeks ago
763e990

doctor adding field along with text number and images is added and model doctor is created raviroy committed 2 weeks ago	6943b47	 
admin template were added and along with it partition of body navbar and side bar is done raviroy committed 2 weeks ago	4fd538c	 
template for user index added as well partition of doctor template,appointment template,and latest template were made raviroy committed 2 weeks ago	8bdd597	 
Commits on Jan 4, 2024		
admin and user dashboard created raviroy committed 2 weeks ago	5a08dad	 
creating different project hms raviroy committed 2 weeks ago	3a50bf7	 
Commits on Jan 2, 2024		
cart page added with crud operation update delete raviroy committed 2 weeks ago	897e4ad	 
Commits on Jan 1, 2024		
description added with faker raviroy committed 2 weeks ago	7eb98d1	 
Commits on Dec 31, 2023		
pagination implemented raviroy committed 2 weeks ago		
pages are being added raviroy committed 2 weeks ago	0b73346	 
managing product user brand in databas as well designing the login and register page raviroy committed 2 weeks ago	20685cb	 
Commits on Dec 29, 2023		
admin aand user login created raviroy committed 3 weeks ago	9b05ceb	 
error on admin and user login as well user conteroller and admin controller fixed raviroy committed 3 weeks ago	1546e4d	 
controller is being used raviroy committed 3 weeks ago	2d1c148	 
Commits on Dec 28, 2023		
migration in new database raviroy committed 3 weeks ago	ed738b5	 
index completed raviroy committed 3 weeks ago	2415cdf	 
Commits on Dec 26, 2023		

Commits on Dec 26, 2023

ecommerce website added

raviroy committed 3 weeks ago

cd22284

<>

Commits on Dec 24, 2023

starter kit added

raviroy committed 3 weeks ago

4378e1a

<>

Commits on Dec 22, 2023

Init

raviroy committed last month

01ce479

<>

Commits on Dec 4, 2023

Part 1

Version control

Commits

main

All users

All time

Commits on Nov 5, 2023

document file added

raviroy committed 2 months ago

d5d4ef5

<>

final commit

raviroy committed 2 months ago

f95d691

<>

gameproduct file added

raviroy committed 2 months ago

98dc547

<>

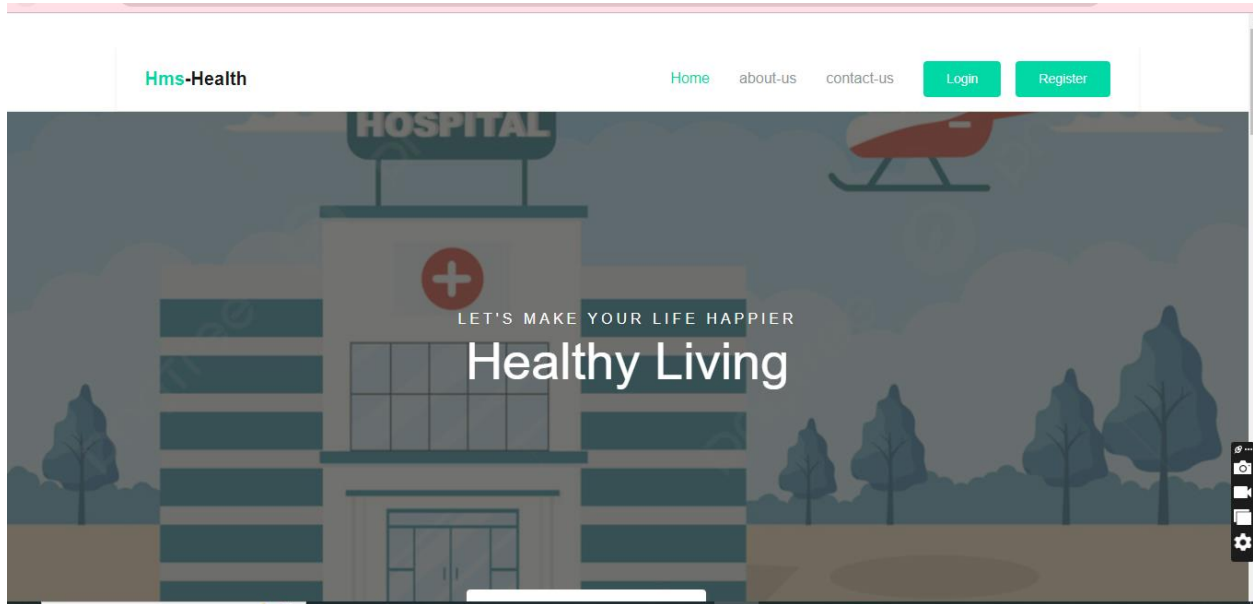
added product in product writer

raviroy committed 2 months ago

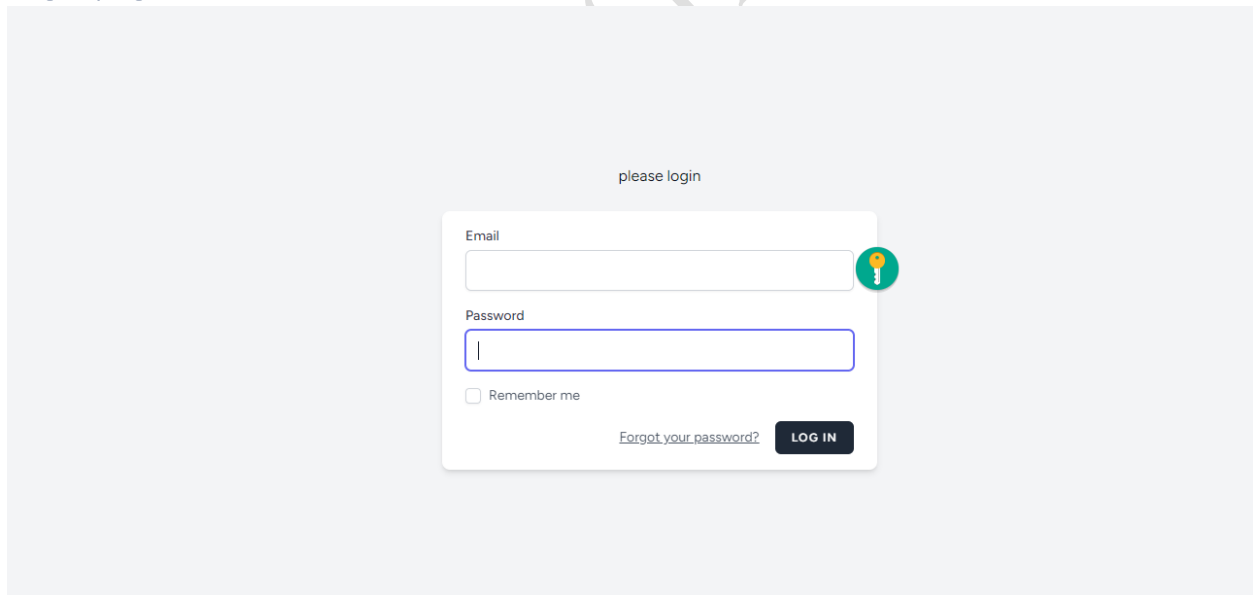
5e18847

<>

Interface before login



Login page



Register page

please register

Name

Email

Phone no

Address

Password

Confirm Password

[Already registered?](#) **REGISTER**

Validation check

please login

Whoops! Something went wrong.

- These credentials do not match our records.

Email

ram

Password

☐ Remember me

[Forgot your password?](#) **LOG IN**

Authentication check

please login

Whoops! Something went wrong.

- These credentials do not match our records.

Email

Password

☐ Remember me

[Forgot your password?](#)

LOG IN

please register

Whoops! Something went wrong.

- The password field confirmation does not match.

Name

Email

Phone no

Address

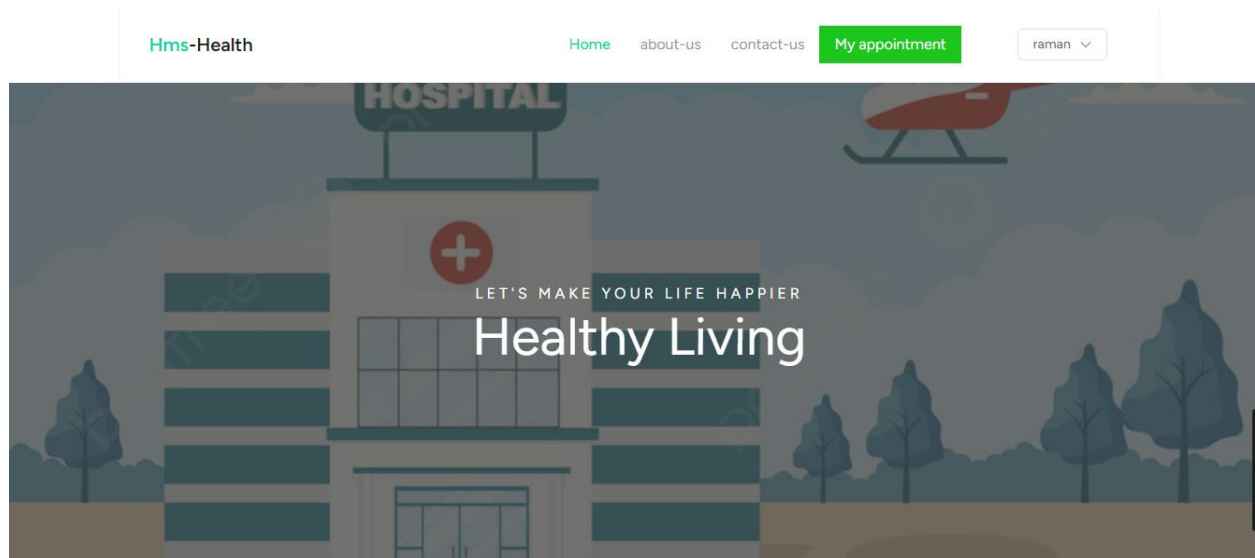
Password

Confirm Password

[Already registered?](#)



REGISTER

User interface after login



Booking appointments before and after login

Make an Appointment

Full name	Email address..
mm/dd/yyyy 	--select doctor-- 
Number..	
<div>Enter messege..</div>	

Submit Request

Make an Appointment

Full name	Email address..
mm/dd/yyyy	--select doctor--
Number..	
Enter messege..	
Submit Request	

My appointment

[Hms-Health](#)[Home](#)[My appointment](#)

raman ▾

Doctor Name	Date	Messege	Status	Cancel appointment
raju	2024-01-13	cardic arrest	approved	Cancel

Contact us form

Contact Us

For general inquiries and assistance, please contact HSM at the following numbers:

HSM Number: 9880431488

Helpdesk: 9819615996

Emergency: 985403078

You can also send an email to the following addresses:

HSM Email: humidroy1408@gmail.com

Emergency Email: raviliyadav7372@gmail.com

Follow-up Email: raveeroyy1408@gmail.com

About-us

About HSM - Hospital Management System

Welcome to HSM, your trusted platform for efficient and convenient healthcare services. Our system is designed to streamline the process of booking appointments with specialized doctors, ensuring that you receive the best possible care for your specific needs.

At HSM, we understand the importance of your health and well-being. That's why we provide a user-friendly interface that allows you to easily log in and book appointments with professionals in various medical fields. Our dedicated team of doctors specializes in skin, ENT (Ear, Nose, Throat), head, lungs, diabetes, and thyroid services.

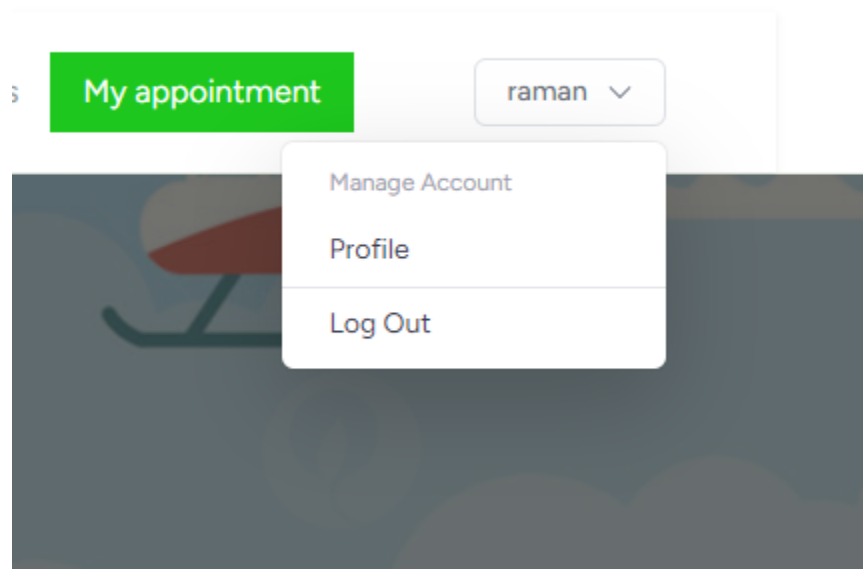
Key Features of HSM:

- 24/7 availability for appointment bookings
- Multiple specialized doctors to choose from
- Efficient and user-friendly interface
- Secure login and logout functionality

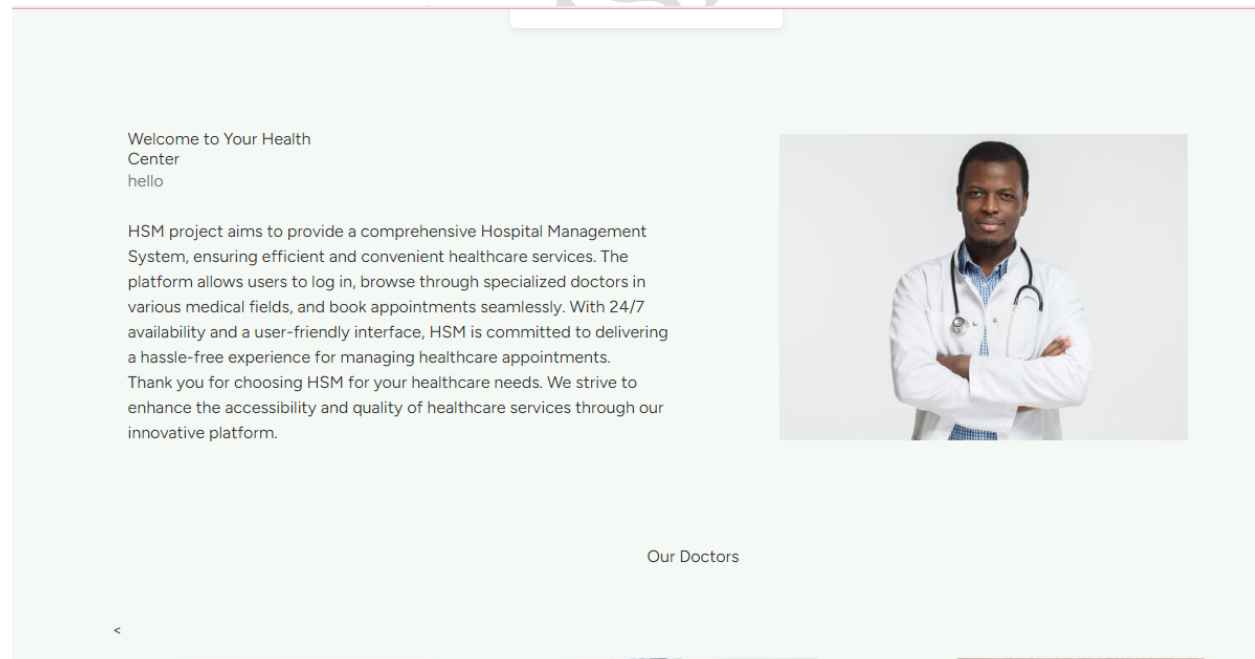
Our mission is to provide you with a hassle-free experience when it comes to managing your healthcare appointments. Whether you're seeking routine check-ups or specialized consultations, HSM is here to connect you with the right professionals.

Thank you for choosing HSM for your healthcare needs. We are committed to ensuring a seamless and reliable healthcare management experience for you and your loved ones.

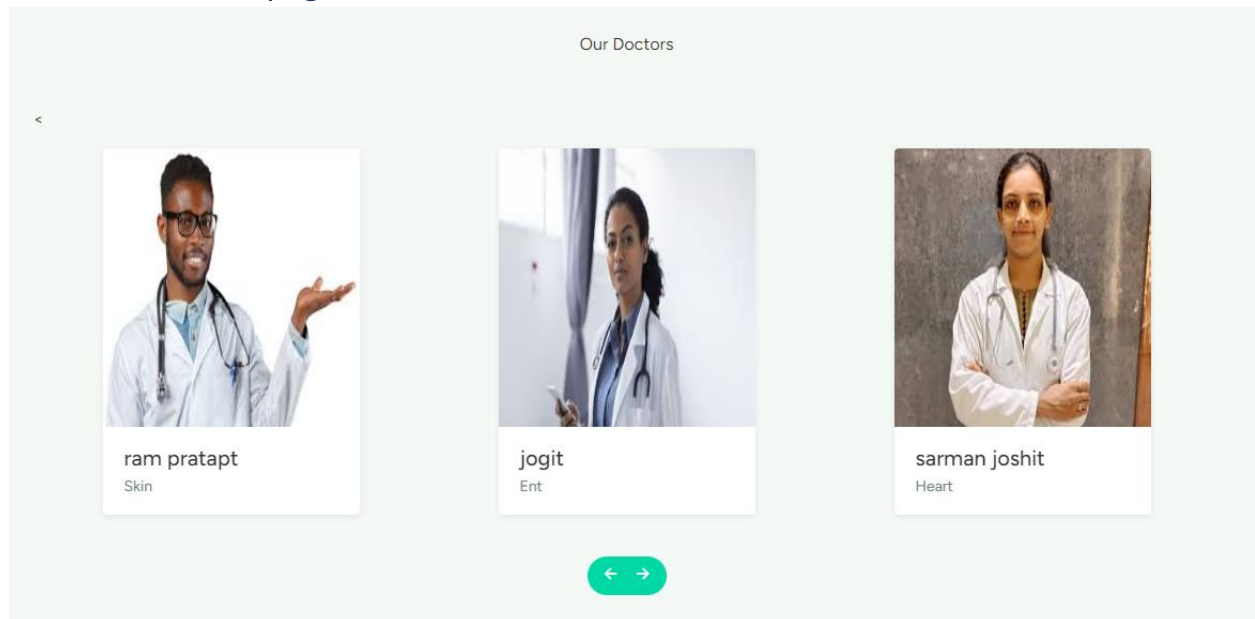
Logout section



Interface

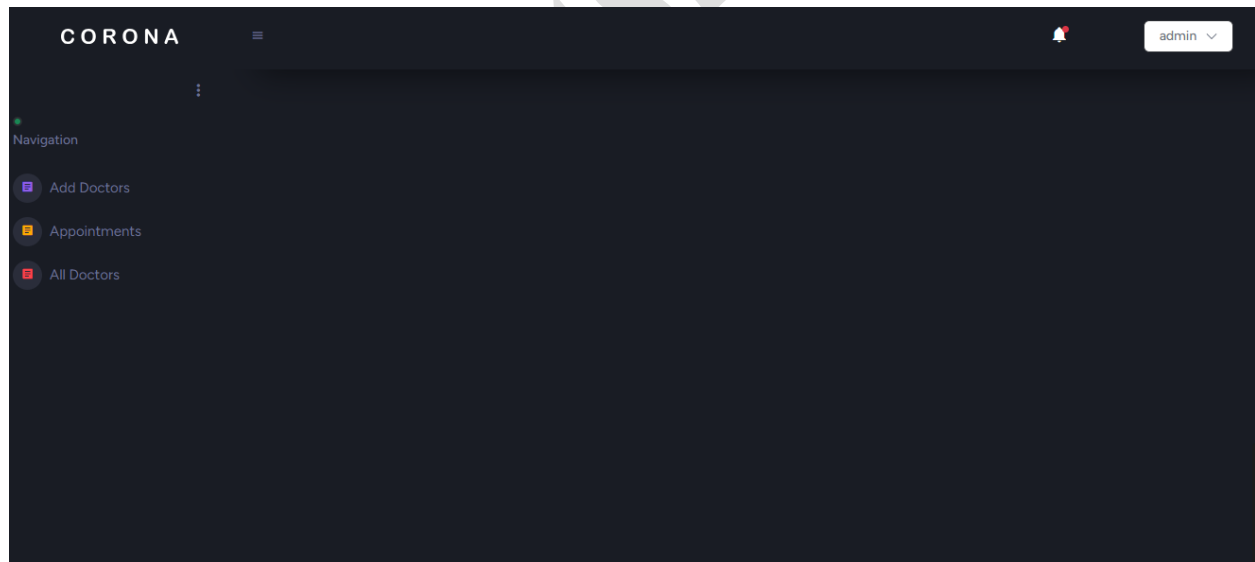


Our doctors with pagination



Now let's move towards the admin section

Interface



Starts with adding a doctor

CORONA admin

Navigation

- Add Doctors
- Appointments
- All Doctors

Doctor Name

Phone no

Speciality

Room No

Doctor Image No file chosen




Appointment with sort by functionality

Sort by:

Patient name	Email	Phone_no	Doctor name	Date	Message	Status	Approved	Canceled
raman	raman@gmail.com	9868576876	ram pratap	2024-01-13	iritation	approved	<input type="button" value="Approved"/>	<input type="button" value="Canceled"/>
raman	raman@gmail.com	9868576876	ram pratap	2024-01-13	iritation	In Progress	<input type="button" value="Approved"/>	<input type="button" value="Canceled"/>
dhami	dhami@gmail.com	896875563	raju	2024-01-06	high bp	canceled	<input type="button" value="Approved"/>	<input type="button" value="Canceled"/>
raman	raman123@gmail.com	25435	raju	2024-01-13	cardic arrest	approved	<input type="button" value="Approved"/>	<input type="button" value="Canceled"/>
ravi	raviiyadav7372@gmail.com	9819615996	ram pratap	2024-01-19	regular checkup	approved	<input type="button" value="Approved"/>	<input type="button" value="Canceled"/>


All doctors with search functionality

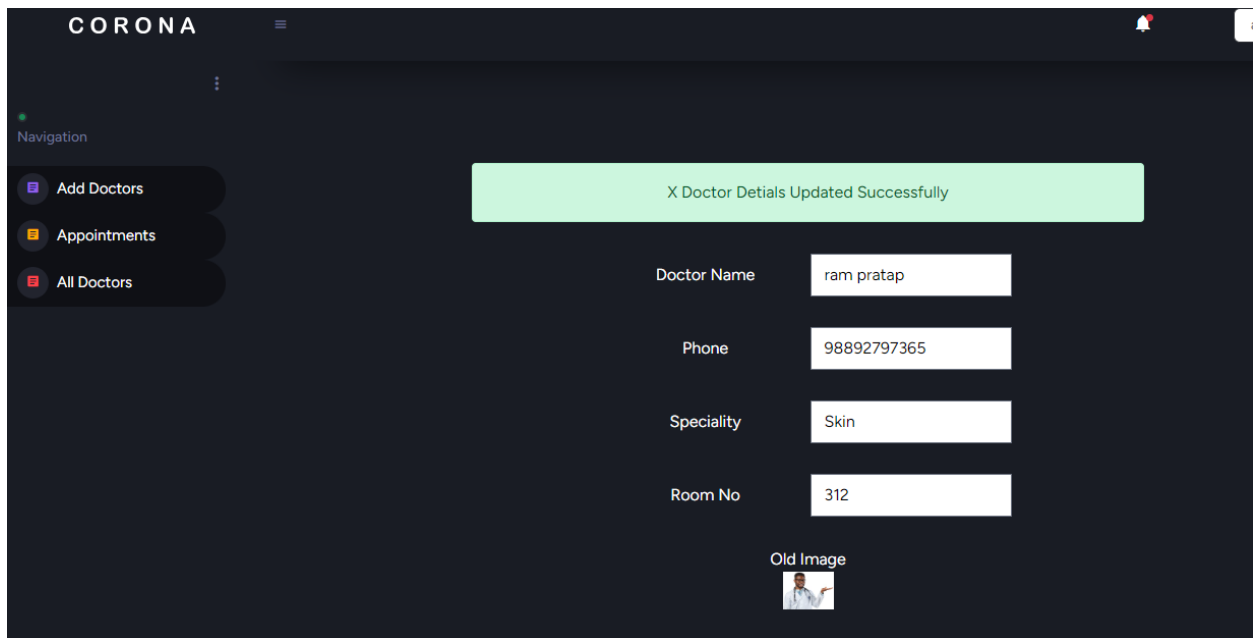
The screenshot shows the CORONA application interface. On the left is a navigation menu with options: Add Doctors, Appointments, and All Doctors (selected). At the top right, there is a user profile 'admin' and a notification bell. Below the navigation menu, there is a search bar labeled 'Search by Doctor Name:' with the placeholder text 'Type to search'. Below the search bar is a table listing three doctors.

Doctor Name	phone_no	Speciality	Room No	Image	Delete	Update
ram pratap	98163873248	Skin	312		Delete	Update
jogi	897862885	Ent	305		Delete	Update
sarman joshi	983839798436	Heart	306		Delete	Update

Update doctor features

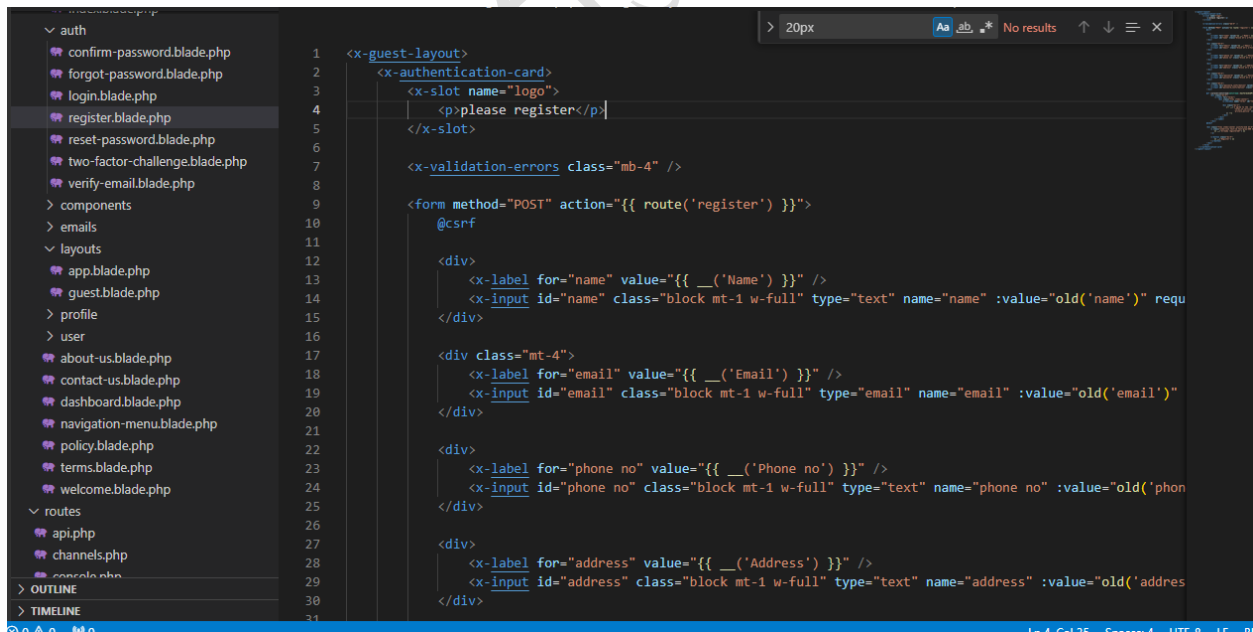
The screenshot shows the 'Update doctor features' form in the CORONA application. The form is titled 'Doctors' and contains the following fields:

- Doctor Name: ram pratap
- Phone: 98163873248
- Speciality: Skin
- Room No: 312
- Old Image: 
- Change Image: [Choose file](#) No file chosen
- [Submit](#)



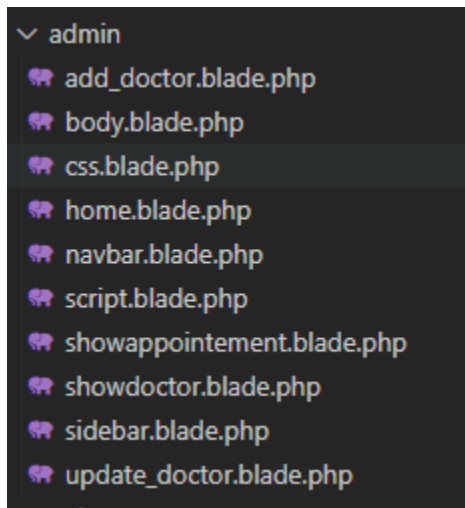
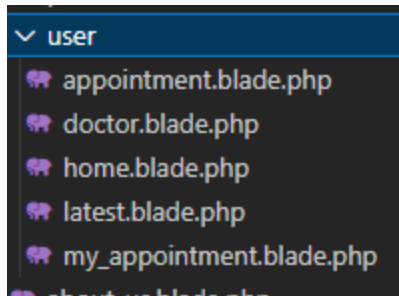
So we have done all the crude operations in the admin section and also in my appointment section of the user

Code show



I have created a user folder inside which all the user php files are placed

Similarly, I have an admin folder in which all the admin-related php files are kept



We have an asset folder in which all the necessary images that have been used as well html files

Let me show you the route and controller section

Route

Web.php

```

1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\HomeController;
5 use App\Http\Controllers\AdminController;
6
7 /*
8 |-----|
9 | Web Routes
10 |-----|
11 |
12 | Here is where you can register web routes for your application. These
13 | routes are loaded by the RouteServiceProvider and all of them will
14 | be assigned to the "web" middleware group. Make something great!
15 |
16 */
17
18
19
20 Route::get('/', [HomeController::class, 'index']);
21
22
23
24 Route::get('/home', [HomeController::class, 'redirect'])->middleware('auth', 'verified');
25
26
27
28 Route::middleware([
29     'auth:sanctum',
30     config('jetstream.auth_session'),
31     'verified',
32 ])->group(function () {
33     Route::get('/dashboard', function () {
34         return view('dashboard');
35     })->name('dashboard');
36
37
38
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98
99
100

```

```

5
6 Route::get('/add_doctor_view',[AdminController::class,'addview']);
7
8 Route::post('/upload_doctor',[AdminController::class,'upload']);
9
10 Route::post('/appointment',[HomeController::class,'appointment']);
11
12 Route::get('/myappointment',[HomeController::class,'myappointment']);
13
14 Route::get('/cancel_appoint/{id}',[HomeController::class,'cancel_appoint']);
15
16 Route::get('/about-us', [HomeController::class, 'aboutUs'])->name('about-us');
17
18 Route::get('/contact-us', [HomeController::class, 'contactus'])->name('contact-us');
19
20
21 Route::get('/showappointment',[AdminController::class,'showappointment']);
22 //route is defined to approve and cancel appointment from admin dashboard
23 Route::get('/approved/{id}',[AdminController::class,'approved']);
24 Route::get('/canceled/{id}',[AdminController::class,'canceled']);
25 //for showing all the doctor in sidebar
26 Route::get('/showdoctor',[AdminController::class,'showdoctor']);
27 //for deleting doctor
28 Route::get('/deletedoctor/{id}',[AdminController::class,'deletedoctor']);
29 //for updating doctor
30 Route::get('/updatedoctor/{id}',[AdminController::class,'updatedoctor']);
31 //for editing the Doctor
32 Route::post('/editdoctor/{id}',[AdminController::class,'editdoctor']);
33 //for shorting
34 Route::get('/admin/appointments/sort-by-date', [AdminController::class, 'sortbydate'])->name('admin.appointments.sort-by-date');
35

```

Controllers

- ▼ Controllers
 - 🐘 AdminController.php
 - 🐘 Controller.php
 - 🐘 HomeController.php

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Doctor;
use Illuminate\Support\Facades\Auth;
use App\Models\Appointment;

class AdminController extends Controller
{
    public function addview()
    {
        if(Auth::id())
        {
            if(Auth::user()->usertype==1)
            {
                return view('admin.add_doctor');
            }
            else
            {
                return redirect()->back();
            }
        }

        else
        {
            return redirect('login');
        }
    }
}
```

```
public function upload(Request $request)
{
    $doctor=new doctor;
    $image=$request->file;
    $imagename=time().'.'.$image->getClientOriginalExtension();
    $request->file->move('doctorimage',$imagename);
    $doctor->image=$imagename;

    $doctor->name=$request->name;
    $doctor->phone_no=$request->number;
    $doctor->room_no=$request->room_no;
    $doctor->Speciality=$request->speciality;

    $doctor->save();

    return redirect()->back()->with('messege','Doctor Added Successfully');
}

public function showappointment()
{
    if(Auth::id())
    {
        if(Auth::user()->usertype==1)
        {
            $data=appointment::all();
            return view('admin.showappointment',compact('data'));
        }
        else
    }
```

```
}

public function approved($id){
    $data=appointment::find($id);
    $data->status='approved';
    $data->save();
    return redirect()->back();
}

//for approve and cancel appointment from admin dashboard//
public function canceled($id){
    $data=appointment::find($id);
    $data->status='canceled';
    $data->save();
    return redirect()->back();
}

//to show doctor information in admin dashboard
public function showdoctor()
{
    $data=doctor::all();
    return view('admin.showdoctor',compact('data'));
}

public function deletedoctor($id)
{
    $data=doctor::find($id);
    $data->delete();

    return redirect()->back();
}

public function updatedoctor($id)
{
    $data=doctor::find($id);
```



```
}  
public function deletedoctor($id)  
{  
    $data=doctor::find($id);  
    $data->delete();  
  
    return redirect()->back();  
}  
  
public function updatedoctor($id)  
{  
    $data = doctor::find($id);  
    return view('admin.update_doctor',compact('data'));  
}  
public function editdoctor(Request $request, $id)  
{  
    $doctor = doctor::find($id);  
  
    $doctor->name=$request->name;  
  
    $doctor->phone_no=$request->phone_no;  
  
    $doctor->Speciality=$request->Speciality;  
  
    $doctor->room_no=$request->room_no;  
  
    $image=$request->file;  
  
    if($image)  
    {
```

```
$image=$request->file;

if($image)
{
    $imagename=time().'.'.$image->getClientOriginalExtension();

    $request->file->move('doctorimage',$imagename);

    $doctor->image=$imagename;
}
$doctor->save();

return redirect()->back()->with('messege','Doctor Detials Updated Successfully');
}

public function sortAppointmentsByDate()

// Fetch appointments sorted by date
$appointments = Appointment::orderBy('date', 'asc')->get();

// Pass the sorted data to the view
return view('admin.appointments.index', ['data' => $appointments]);
```

The controller handles all the requests from users through route

Code from the home controller

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use Illuminate\Support\Facades\Auth;
use App\Models\User;
use App\Models\Doctor;
use App\Models\Appointment;

class HomeController extends Controller
{
    public function redirect()
    {
        if(Auth::id())
        {
            if(Auth::user()->usertype=='0')
            {
                $doctor=doctor::all();

                return view('user.home',compact('doctor'));
            }
            else
            {
                return view('admin.home');
            }
        }

        else
        {
            return redirect()->back();
        }
    }
}
```

```
public function index()
{
    if(Auth::id())
    {
        return redirect('home');
    }
    else
    {
        $doctor=doctor::all();
        return view('user.home',compact('doctor'));
    }
}

public function appointment(Request $request)
{
    $data= new appointment;
    $data->name=$request->name;

    $data->email=$request->email;

    $data->date=$request->date;

    $data->phone_no=$request->number;

    $data->messege=$request->messege;

    $data->doctor=$request->doctor;

    $data->status='In Progress';
}
```

```
$data= new appointment;
$data->name=$request->name;

$data->email=$request->email;

$data->date=$request->date;

$data->phone_no=$request->number;

$data->messege=$request->messege;

$data->doctor=$request->doctor;

$data->status='In Progress';

if(Auth::id())
{
    $data->user_id=Auth::user()->id;
}

$data->save();

return redirect()->back()->with('messege','Appointment request successfull. stay tuned');
}

public function myappointment()
```

Now database section

Database

The screenshot shows the phpMyAdmin interface for Server: 127.0.0.1. The left sidebar lists databases: component2, fashion, hsm, information_schema, mysql, performance_schema, phpmyadmin, and test. The main panel displays several settings sections:

- General settings:** Server connection collation is set to utf8mb4_unicode_ci.
- Appearance settings:** Language is set to English, and the theme is pmahomme.
- Database server:**
 - Server: 127.0.0.1 via TCP/IP
 - Server type: MariaDB
 - Server connection: SSL is not being used
 - Server version: 10.4.27-MariaDB - mariadb.org binary distribution
 - Protocol version: 10
 - User: root@localhost
 - Server charset: UTF-8 Unicode (utf8mb4)
- Web server:**
 - Apache/2.4.54 (Win64) OpenSSL/1.1.1p PHP/8.1.12
 - Database client version: libmysql - mysqlnd 8.1.12
 - PHP extension: mysqli, curl, mbstring
 - PHP version: 8.1.12
- phpMyAdmin:**
 - Version information: 5.2.0, latest stable version: 5.2.1
 - [Documentation](#)

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> appointments		5	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
<input type="checkbox"/> doctors		4	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
<input type="checkbox"/> failed_jobs		0	InnoDB	utf8mb4_unicode_ci	32.0 KiB	-
<input type="checkbox"/> migrations		8	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
<input type="checkbox"/> password_reset_tokens		2	InnoDB	utf8mb4_unicode_ci	16.0 KiB	-
<input type="checkbox"/> personal_access_tokens		0	InnoDB	utf8mb4_unicode_ci	48.0 KiB	-
<input type="checkbox"/> sessions		1	InnoDB	utf8mb4_unicode_ci	48.0 KiB	-
<input type="checkbox"/> users		4	InnoDB	utf8mb4_unicode_ci	48.0 KiB	-
8 tables	Sum	24	InnoDB	utf8mb4_general_ci	240.0	0 B

Doctor table

Extra options

		id	name	phone_no	Speciality	room_no	image	created_at	updated_at
<input type="checkbox"/>		2	ram pratap	98892797365	Skin	312	1704488561.jpg	2024-01-05 09:44:38	2024-01-17 12:49:55
<input type="checkbox"/>		3	jogi	897862885	Ent	305	1704448543.jpg	2024-01-05 09:55:43	2024-01-05 09:55:43
<input type="checkbox"/>		5	sarman joshi	983839798436	Heart	306	1704488123.jpg	2024-01-05 10:18:46	2024-01-05 20:55:23
<input type="checkbox"/>		7	kalu panday	9823897873	General Physician	343	1704491286.jpg	2024-01-05 21:48:06	2024-01-05 21:48:06

☐ Check all
 With selected: