

DocHere

Doctor Booking System

Design and development by: Diluk Chamika

Documented date: 20.12.2023

1. Introduction

DocHere is a simple doctor booking application that developed with Flask micro web application framework using MySQL database management system. There are three user entities in this web application. They are,

- Staff/Admin
- Doctor
- User

2. Used Technologies and Languages

- HTML
- CSS
- Bootstrap 5.3
- JavaScript
- AJAX
- Flask
- MySQL

3. Operations in Brief

Staff/Admin accounts are pre-defined and will be created by development team. Cannot create new Staff/Admin accounts using the DocHere application interfaces.

Doctors can create accounts. But they cannot make credentials at once. Their account will be checked by Staff/Admin s and they can approve doctor accounts and after that, credentials will be given to the doctors privately.

Using those credentials, doctors can log into the DocHere application as a doctor and they can create schedules for each date as they want. Schedules have 15 minutes time slots and each of slot has a location. After they submit the schedule, users can show them when they search.

Users can create accounts and make credentials at once. Using those credentials, they can log into the DocHere application and search for a doctor by name or the location. After selecting a doctor, users can select a date for make a booking. According to the selected doctor and date, if there are available time slots for booking, users can book those timeslots.

Then doctors can see those booked timeslots in their account as pending bookings. After the patient/user meet the doctor, doctor can change the pending booking status as done.

4. User Interfaces in Details

1) Homepage

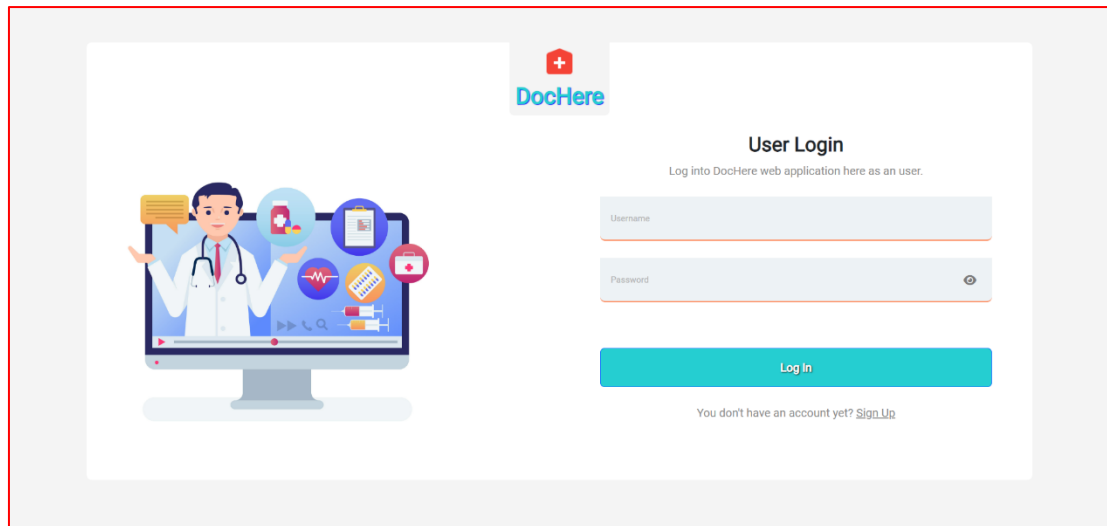


This is the homepage of this web application. In here, there are three sections for logins. They are User Login, Doctor Login and Staff/Admin Login. Users and Doctors can also create accounts (sign up) using those login portals.

2) **USER**

a) User Login and Sign Up

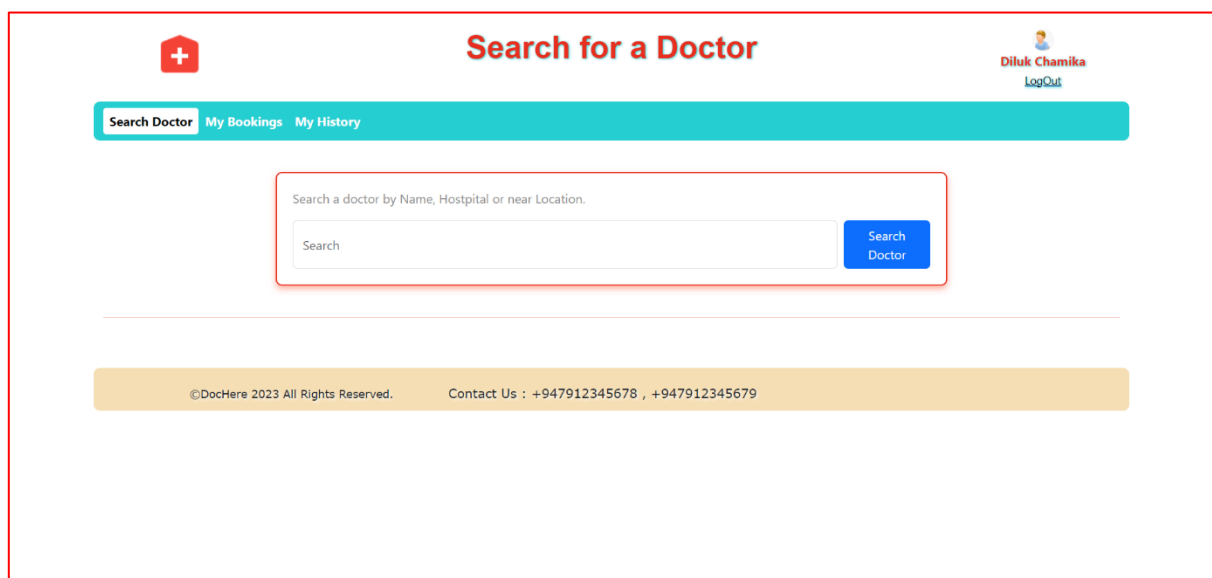
The screenshot shows the "Sign Up" form in the DocHere application. The form is titled "Sign Up" with the subtitle "You can create new user account here." Below the title, there are several input fields: "First Name", "Last Name", "Birthday" (with a date picker showing "01/01/2000"), "NIC/Passport No.", "Profile Picture" (with a "Choose File" button and "No file chosen" text), "Email", "Password" (with a toggle icon), and "Confirm Password" (with a toggle icon). A large blue "Sign Up" button is at the bottom. Below the button, there is a link "Already have an account? [Log In](#)". On the left side of the form, there is an illustration of a doctor on a computer screen with various medical icons around it.




Users can create accounts and login using these interfaces. When sign up process, if the entered username is already used in the DocHere system, it will be not allowed to use again as a username.

By clicking on DocHere icon that top middle of the interface can redirected to the homepage again.


b) Search for a Doctor



After entering a keyword and press on “Search Doctor” button, user can see the matching doctor details as below screenshot.



Search for a Doctor


Diluk Chamika
[LogOut](#)

[Search Doctor](#)
[My Bookings](#)
[My History](#)


Search a doctor by Name, Hospital or near Location.

Doctor Name	Category	Location	Booking
Dr. Test Doctor 2	Dentist	Gampaha	<input type="button" value="Book"/>


©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

In this example screenshot showing only one result. But after adding more doctors, users can be having more result sets. If user want to book a doctor, click on the “Book” button. Then user can see the “Make a Booking” interface to show doctor details and select a date.


c) Make a Booking



Make a Booking


Diluk Chamika
[LogOut](#)

[Search Doctor](#)
[My Bookings](#)
[My History](#)




Name: Dr. Test Doctor 2
Category: Dentist
Hospital/ Location: Gampaha
Contact: 0791111111
Email: testdoc2@gmail.com

To make a booking, please select the date and select your preferred time slot by clicking on button below.


Select a date:

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679


In here, user can see selected doctor details and select a date for make a booking. After selecting the date, users have to select a time slot from available times of the selected doctor. By clicking on “Select a time slot” button, users can select a time slot. After clicked, user can see the time slots as below.



Make a Booking


Diluk Chamika
[LogOut](#)

[Search Doctor](#)
[My Bookings](#)
[My History](#)



Name: Dr. Test Doctor 2
Category: Dentist
Contact: 0791111111
Hospital/ Location Gampaha

Select a time slot as you want


Date	Time	Location	Book
2023-12-17	05:00 PM - 05:15 PM	Seth Hospitals, Gampaha	Book
2023-12-17	05:15 PM - 05:30 PM	Seth Hospitals, Gampaha	Book
2023-12-17	05:30 PM - 05:45 PM	Seth Hospitals, Gampaha	Book
2023-12-17	05:45 PM - 06:00 PM	Seth Hospitals, Gampaha	Booked

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679


User can book the available time slots. Otherwise, already booked time slots are shown as “Booked” in the table.

After user booked a time slot, the web page will redirect the user to “My Bookings” page.

d) My Bookings



My Bookings


Diluk Chamika
[LogOut](#)

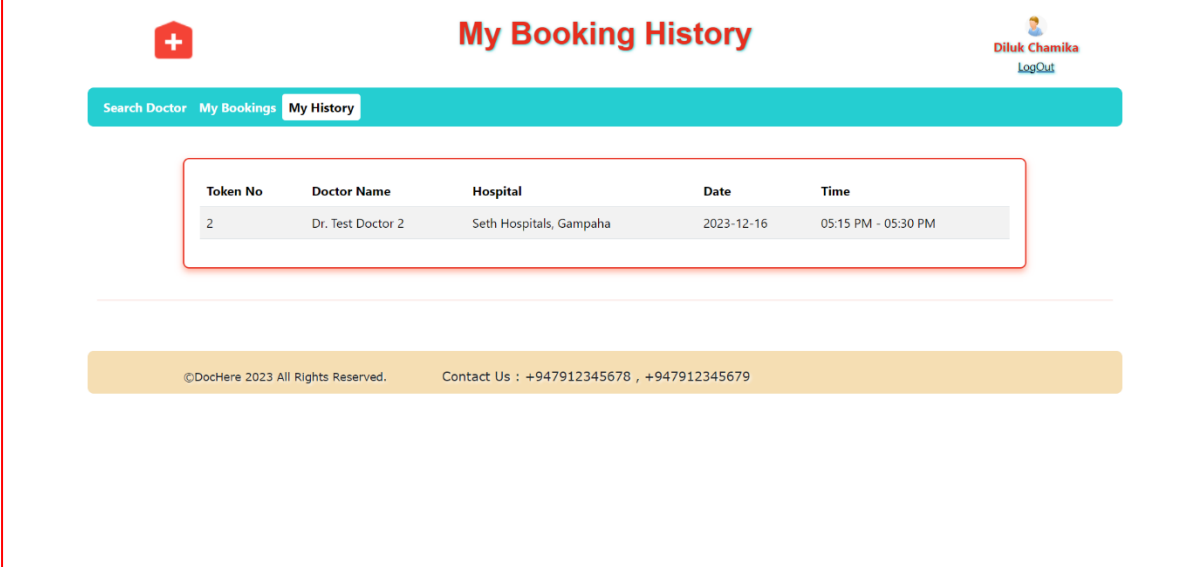
[Search Doctor](#)
[My Bookings](#)
[My History](#)

Date	Time	Token No	Doctor Name	Hospital
2023-12-17	05:00 PM - 05:15 PM	5	Dr. Test Doctor 2	Seth Hospitals, Gampaha
2023-12-17	05:45 PM - 06:00 PM	8	Dr. Test Doctor 2	Seth Hospitals, Gampaha
2023-12-19	08:00 PM - 08:15 PM	17	Dr. Test Doctor 2	MED Ik Gampaha

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

In here users can see the waiting bookings those are not finished. (Did not meet the doctor yet). There is a “Token Number” to each of the bookings.

e) My Booking History



The screenshot shows the 'My Booking History' page. At the top, there is a red header bar with a white plus icon on the left and the text 'My Booking History' in the center. On the right side of the header, there is a user profile icon and the name 'Diluk Chamika' with a 'LogOut' link below it. Below the header, there is a teal navigation bar with three tabs: 'Search Doctor', 'My Bookings', and 'My History'. The 'My History' tab is currently selected. Below the navigation bar, there is a table with the following data:

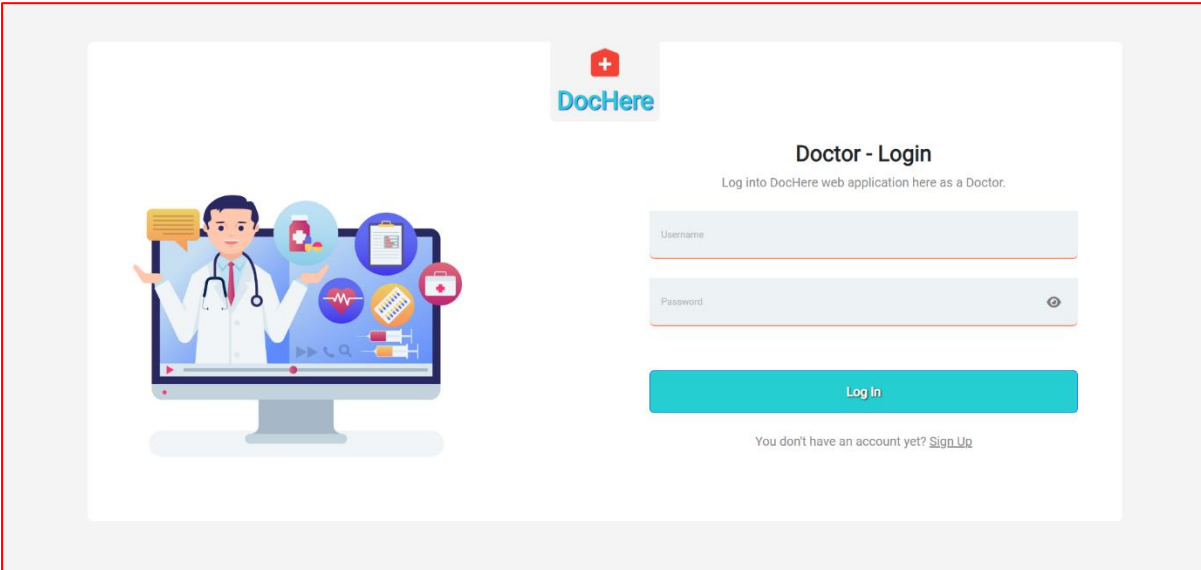
Token No	Doctor Name	Hospital	Date	Time
2	Dr. Test Doctor 2	Seth Hospitals, Gampaha	2023-12-16	05:15 PM - 05:30 PM

At the bottom of the page, there is a yellow footer bar with the text '©DocHere 2023 All Rights Reserved.' and 'Contact Us : +947912345678 , +947912345679'.

In this page, users can see their finished bookings.

3) DOCTOR


a) Doctor Login and Signup




The screenshot shows the 'Doctor - Login' page. At the top, there is a red header bar with a white plus icon on the left and the text 'DocHere' in the center. Below the header, there is a large illustration of a doctor on a computer screen. To the right of the illustration, there is a login form with the following fields:

- Username**: A text input field.
- Password**: A password input field with a toggle icon.
- Log In**: A teal button.

Below the login form, there is a link that says 'You don't have an account yet? [Sign Up](#)'.





Doctor - Sign Up

You can sign up to DocHere - Doctor account here. Our admin panel will give you the login credentials.


Already have an account? [Log In](#)

Doctors can create doctor accounts. But they cannot make the credentials (username and password) for that. Therefore, according to the created account by doctor, the staff/admins can check whether the given account details are correct and then admins can make the credentials for that.


Then those credentials will be given to the doctor by secretly, not through the system.

Using those credentials, Doctor can login to the DocHere system.

b) Scheduling



Scheduling



Dr. Test Doctor 2
[Logout](#)

[Schedule](#) | [My Schedules](#) | [Bookings](#) | [My Profile](#)

Select a date: 12/20/2023

08.00am to 10.30am

- ☐ 08.00 - 08.15 am
- ☐ 08.15 - 08.30 am
- ☐ 08.30 - 08.45 am
- ☐ 08.45 - 09.00 am
- ☐ 09.00 - 09.15 am
- ☐ 09.15 - 09.30 am
- ☐ 09.30 - 09.45 am
- ☐ 09.45 - 10.00 am
- ☐ 10.00 - 10.15 am
- ☐ 10.15 - 10.30 am

10.30am to 01.00pm

- ☐ 10.30 - 10.45 am
- ☐ 10.45 - 11.00 am
- ☐ 11.00 - 11.15 am
- ☐ 11.15 - 11.30 am
- ☐ 11.30 - 11.45 am
- ☐ 11.45 - 12.00 pm
- ☐ 12.00 - 12.15 pm
- ☐ 12.15 - 12.30 pm
- ☐ 12.30 - 12.45 pm
- ☐ 12.45 - 01.00 pm

01.00pm to 05.00pm

- ☐ 01.00 - 01.15 pm
- ☐ 01.15 - 01.30 pm
- ☐ 01.30 - 01.45 pm
- ☐ 01.45 - 02.00 pm
- ☒ 02.00 - 02.15 pm
- ☐ 02.15 - 02.30 pm
- ☐ 02.30 - 02.45 pm
- ☐ 02.45 - 03.00 pm
- ☐ 03.00 - 03.15 pm
- ☐ 03.15 - 03.30 pm
- ☐ 03.30 - 03.45 pm
- ☐ 03.45 - 04.00 pm
- ☐ 04.00 - 04.15 pm
- ☐ 04.15 - 04.30 pm
- ☐ 04.30 - 04.45 pm
- ☐ 04.45 - 05.00 pm

Seth Medi Services - Gampaha

Hospital/Location

05.00pm to 10.00pm

- ☐ 05.00 - 05.15 pm
- ☐ 05.15 - 05.30 pm
- ☐ 05.30 - 05.45 pm
- ☐ 05.45 - 06.00 pm
- ☐ 06.00 - 06.15 pm
- ☐ 06.15 - 06.30 pm
- ☐ 06.30 - 06.45 pm
- ☐ 06.45 - 07.00 pm
- ☐ 07.00 - 07.15 pm
- ☐ 07.15 - 07.30 pm
- ☐ 07.30 - 07.45 pm
- ☐ 07.45 - 08.00 pm

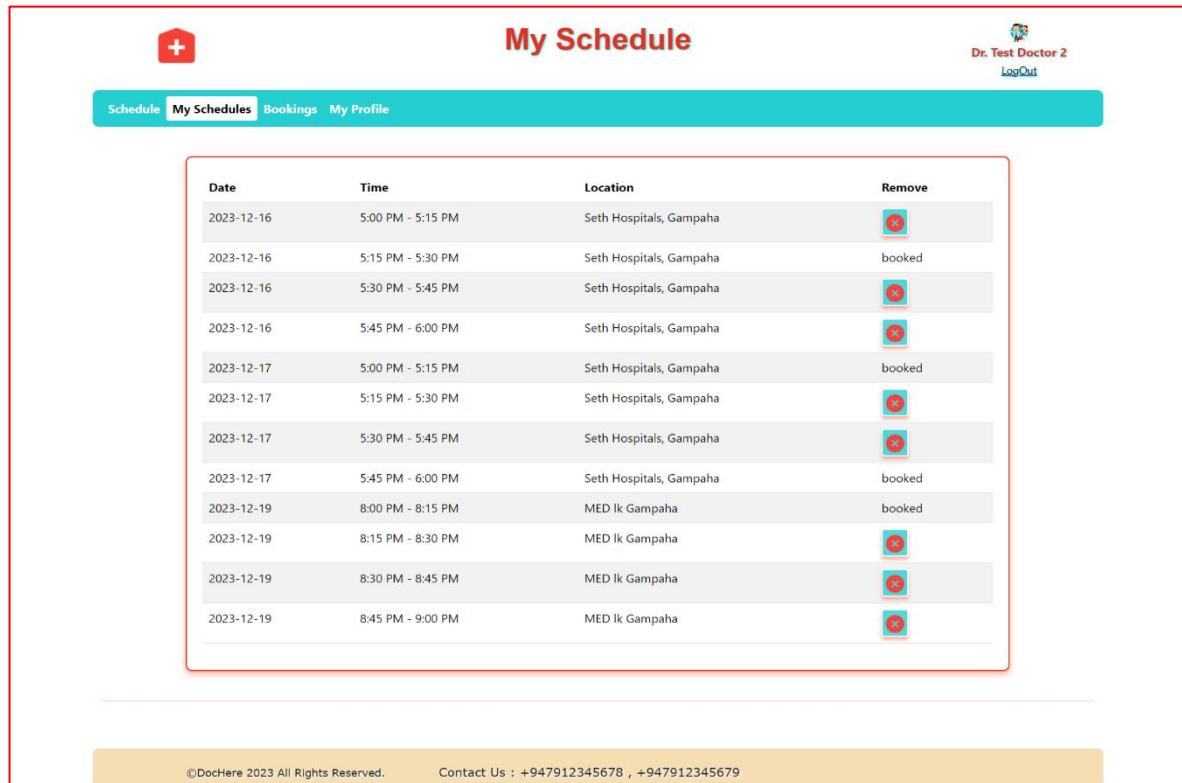
08.00pm to 10.00pm

- ☐ 08.00 - 08.15 pm
- ☐ 08.15 - 08.30 pm
- ☐ 08.30 - 08.45 pm
- ☐ 08.45 - 09.00 pm
- ☐ 09.00 - 09.15 pm
- ☐ 09.15 - 09.30 pm
- ☐ 09.30 - 09.45 pm
- ☐ 09.45 - 10.00 pm

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

By using this page, doctors can schedule their bookings. Select a date and put on the switches according to time slots. Then every activated time slot should be having a location. After add time slots and locations, doctor should click on the “Submit” button to add all booking schedule to the system. After submitted, the booking schedule will be appeared in users’ searches.

c) My Schedule



My Schedule

Dr. Test Doctor 2
LogOut

Schedule **My Schedules** Bookings My Profile

Date	Time	Location	Remove
2023-12-16	5:00 PM - 5:15 PM	Seth Hospitals, Gampaha	
2023-12-16	5:15 PM - 5:30 PM	Seth Hospitals, Gampaha	booked
2023-12-16	5:30 PM - 5:45 PM	Seth Hospitals, Gampaha	
2023-12-16	5:45 PM - 6:00 PM	Seth Hospitals, Gampaha	
2023-12-17	5:00 PM - 5:15 PM	Seth Hospitals, Gampaha	booked
2023-12-17	5:15 PM - 5:30 PM	Seth Hospitals, Gampaha	
2023-12-17	5:30 PM - 5:45 PM	Seth Hospitals, Gampaha	
2023-12-17	5:45 PM - 6:00 PM	Seth Hospitals, Gampaha	booked
2023-12-19	8:00 PM - 8:15 PM	MED Ik Gampaha	booked
2023-12-19	8:15 PM - 8:30 PM	MED Ik Gampaha	
2023-12-19	8:30 PM - 8:45 PM	MED Ik Gampaha	
2023-12-19	8:45 PM - 9:00 PM	MED Ik Gampaha	

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

Doctor can see his/her all scheduled bookings by this page. And also, doctor can remove each of created schedule timeslots in here. But already booked schedules cannot be remove from the system.

d) Filled Bookings



Filled Bookings

Dr. Test Doctor 2
LogOut


Schedule My Schedules **Bookings** My Profile

Token No	Patient Name	Date	Time	Location	Status
2	Diluk Chamika	2023-12-16	05:15 PM - 05:30 PM	Seth Hospitals, Gampaha	
5	Diluk Chamika	2023-12-17	05:00 PM - 05:15 PM	Seth Hospitals, Gampaha	
8	Diluk Chamika	2023-12-17	05:45 PM - 06:00 PM	Seth Hospitals, Gampaha	
17	Diluk Chamika	2023-12-19	08:00 PM - 08:15 PM	MED Ik Gampaha	


©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

Doctors can see the user booked schedules by “Filled Bookings” section. After the patient/user meet the doctor, doctor can “Finish” the booking. Then that booking will appeared as a finished booking.


e) My Profile



My Profile


Dr. Test Doctor 2
[LogOut](#)

ScheduleMy SchedulesBookings**My Profile**



Full Name

Dr. Test Doctor 2

Registration No

EFGH5678

Category

Dentist

Mobile No

0791111111

Hospital/ Location

Gampaha

Email

testdoc2@gmail.com

Username

diluk@gmail.com

Password

12121212

Submit

Close

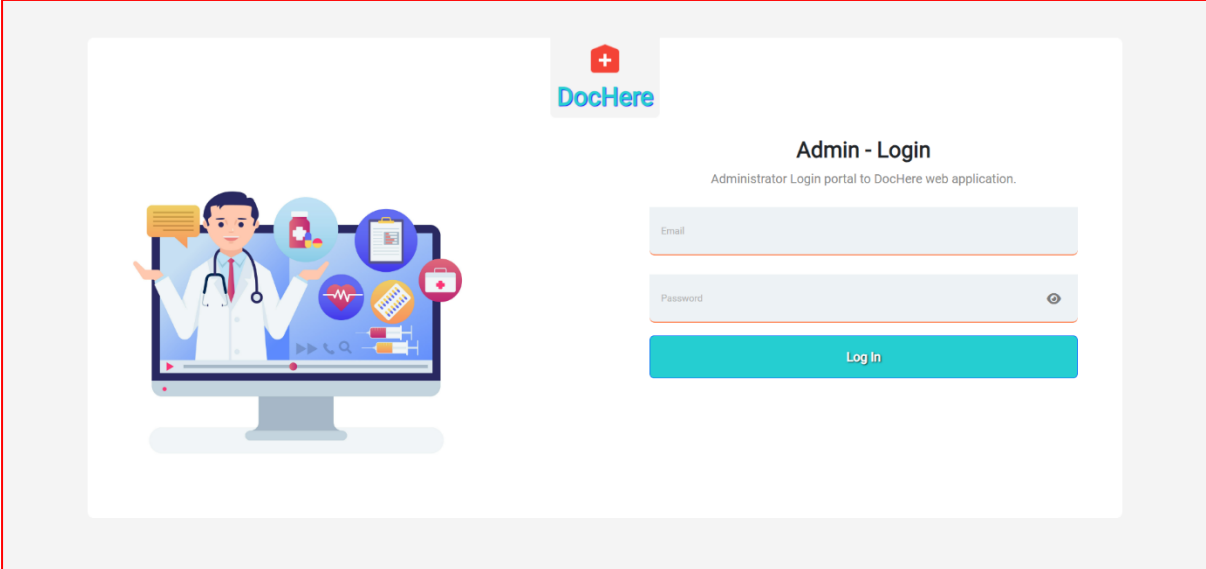
©DocHere 2023 All Rights Reserved.

Contact Us : +947912345678 , +947912345679

Doctor can edit his/her profile details in here.

4) Staff/Admin

a) Staff/Admin Login



DocHere

Admin - Login
Administrator Login portal to DocHere web application.

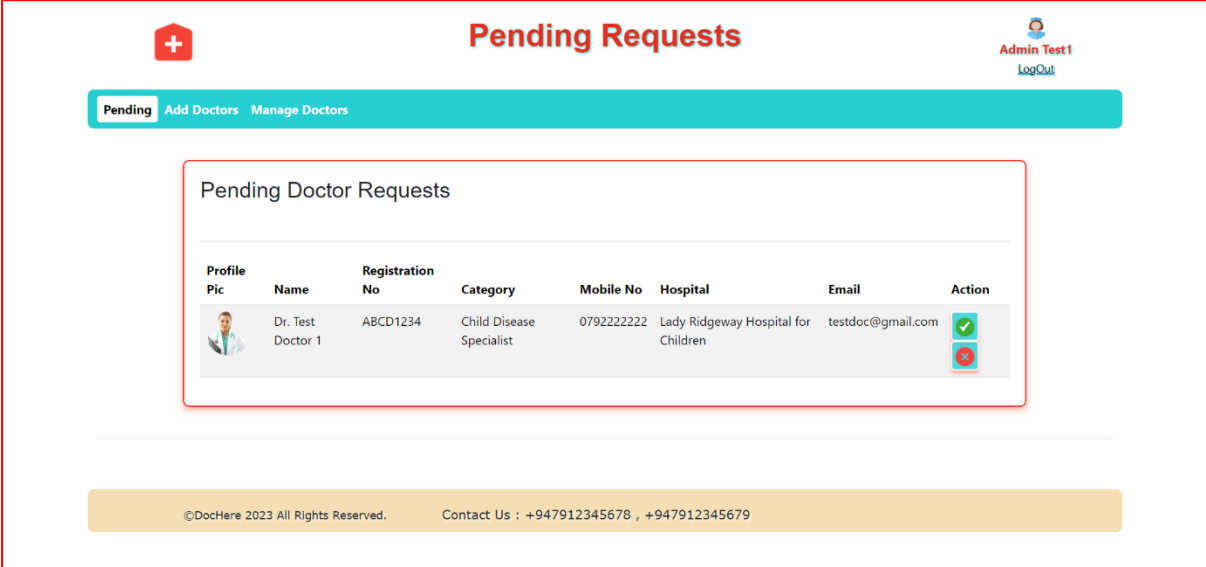
Email

Password

Log In

In here, Admins and Staff users can login to the system.

b) Pending Requests





Pending Requests

Admin Test1
LogOut

Pending Add Doctors Manage Doctors

Pending Doctor Requests

Profile Pic	Name	Registration No	Category	Mobile No	Hospital	Email	Action
	Dr. Test Doctor 1	ABCD1234	Child Disease Specialist	0792222222	Lady Ridgeway Hospital for Children	testdoc@gmail.com	 

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

When doctor trying to create an account, admins can see that as a Doctor Request. Then admin can take an action for that; as approve or reject. When going to approve a doctor request, admin can see the below doctor account editing page.

Pending Requests

Admin Test1
[LogOut](#)

[Pending](#)
[Add Doctors](#)
[Manage Doctors](#)

Full Name

Registration No

Category

Mobile No

Hospital/ Location

Email

Username

Password

Submit

Close & Exit

©DocHere 2023 All Rights Reserved.


Contact Us : +947912345678 , +947912345679

Admins can create credentials (username and password) for this doctor account. And also, check other details and make changes if any want. After editing, admin can submit this. Then the new doctor account will be added to the system. By using those credentials, doctors can access the system.


If admins want to remove the account from here, just click on “Close & Exit” button and then redirected to the “Pending Request” page. In here admin can remove the account request.

c) Add Doctors

If admins want to add doctor manually, they can use this section. This section will be shown as below.



Create Doctor Accounts


Admin Test1
[LogOut](#)

Pending
Add Doctors
Manage Doctors

Full Name

Profile Picture

Registration No

Category

Mobile No

Hospital/ Location

Email


Username

Password


Create
Close & Exit

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

d) Manage Doctor Accounts





Manage Doctor Accounts


Admin Test1
[LogOut](#)

Pending
Add Doctors
Manage Doctors

Doctor Accounts

Profile Pic	Name	Registration No	Category	Mobile No	Hospital	Email	Action
	Dr. Test Doctor 2	EFGH5678	Dentist	0791111111	Gampaha	testdoc2@gmail.com	Edit 

©DocHere 2023 All Rights Reserved. Contact Us : +947912345678 , +947912345679

All the approved doctor account will be appeared in here. Admins can edit and delete the doctor account from here also.

5) Summery

In this documentation, the DocHere doctor booking web application is described under some sub topics as introduction, used technologies and some description about each of user interfaces that can be shown in the DocHere web application.