



Academy Of Information Technology (YCP)

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Documentation On

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PG-DAC Sep 2021

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ABSTRACT

The purpose of our Project “Connecting-To-Doctor” is to automate the process of getting medical treatment and health check-up in a way that saves both time and effort. It manages all the information of patient and doctors. The project is developed at administrative end and thus only the administrator is guaranteed to have access to everything. The purpose of this project is to create a web application that reduces the manual efforts of looking for a doctor and booking appointments. This web based system developed using React, Spring Boot, and MySQL server for database.

The purpose of our Project “Connecting-To-Doctor” is to automate the process of getting medical treatment and health checkup in a way that saves both time and effort. This web based system

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1. Introduction:

1.1 Document Purpose:

This document explains the system requirements and scope for developing Connecting To Doctor portal. Connecting To Doctor portal could divide the three main parts, Admin part, Patient part and Doctor part.

1.2 Project Background:

During pandemic Covid-19 was on high priority and almost all doctors were on duty at Covid-19 care centers which lead to negligence towards other diseases. Many patients suffered amidst pandemic due to unavailability of doctor's appointment. Lockdown restrictions made it more difficult to get information about available appointment slot and doctor's availability. Conventional medical treatment and health checkup is proven to be not feasible in these pandemic like situations. There has to be some virtual medium which will provide ease to both patients and doctors.

1.3 Aim & Objectives:

- The purpose of our Project "Connecting To Doctor" is to automate the process of getting medical treatment and health checkup in a way that saves both time and effort.
- This application manages all the information of patients and doctors.
- The project is developed at administrative end and thus only the administrator is guaranteed to have access to everything.
- This web application reduces the manual efforts of looking for a doctor and booking appointments.

2. Business Requirements Overview:

- Connecting To Doctor is the public web application.
- Connecting To Doctor will be opened to the global, but in the phase 1, the main target is in the Maharashtra.
- There are mainly two types of users. One is the Doctor and other is Patient.
- Patients can search for the available specialist Doctors in respective location.
- Doctor can create appointment slots based on available time and can check information about the booked appointments.
- Connecting To Doctor provides the facility to connect the patients with the doctor efficiently.
- Connecting To Doctor could be maintained by Administrator.

3. Functional Requirements Overview:

Connecting To Doctor consists of three modules described as below.

1. Admin Module
2. Doctor Module
3. Patient Module

3.1 Admin Module

- Connecting To Doctor provide all functionality to admin how to handle the System.
- Admin can register the new doctor when credentials found authentic.
- Admin has controls and can see the Patient details and Doctor details.
- Admin can see the Patient details and also if admin found any details in-appropriate, admin can delete those entries.
- Admin can see the Doctor details and also if admin found any details in-appropriate, admin can delete those entries.
- Admin can deactivate the Patient or Doctor temporarily or permanently.
- Admin can add Area, City, State according to the need.

3.2 Doctor Module

- Doctor can update his profile as per his/her requirements.
- Doctor can see the current appointments and appointment history.
- Doctor can cancel appointment in case of emergency.
- Doctor can update timetable according to availability and holidays.
- Doctor can change existing password.

3.3 Patient Module

- Patient can update his profile as per his/her requirements.
- Patient can search doctors according to locality and specialty of doctor.
- Patient can see the current appointments and appointment history.
- Patient can cancel appointment in case of emergency.
- Patient can change existing password.

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
- Users will have no limitations for accessing the application through Internet. The portal being an internet application, it is difficult to specify exact number of visitor or users. Hence, we will target the system to support between 5 and 10 million users on launch of phase 1.
- Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
- The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.

5. Use-Case Diagram

5.1 Admin

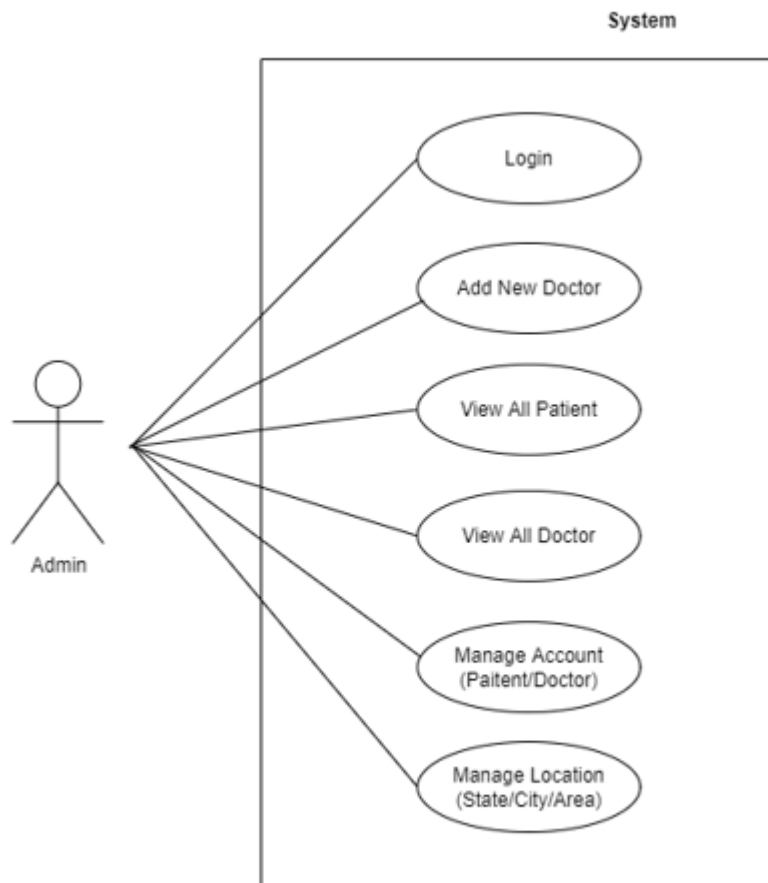


Fig. Use-Case Diagram for Admin

5.2 Doctor

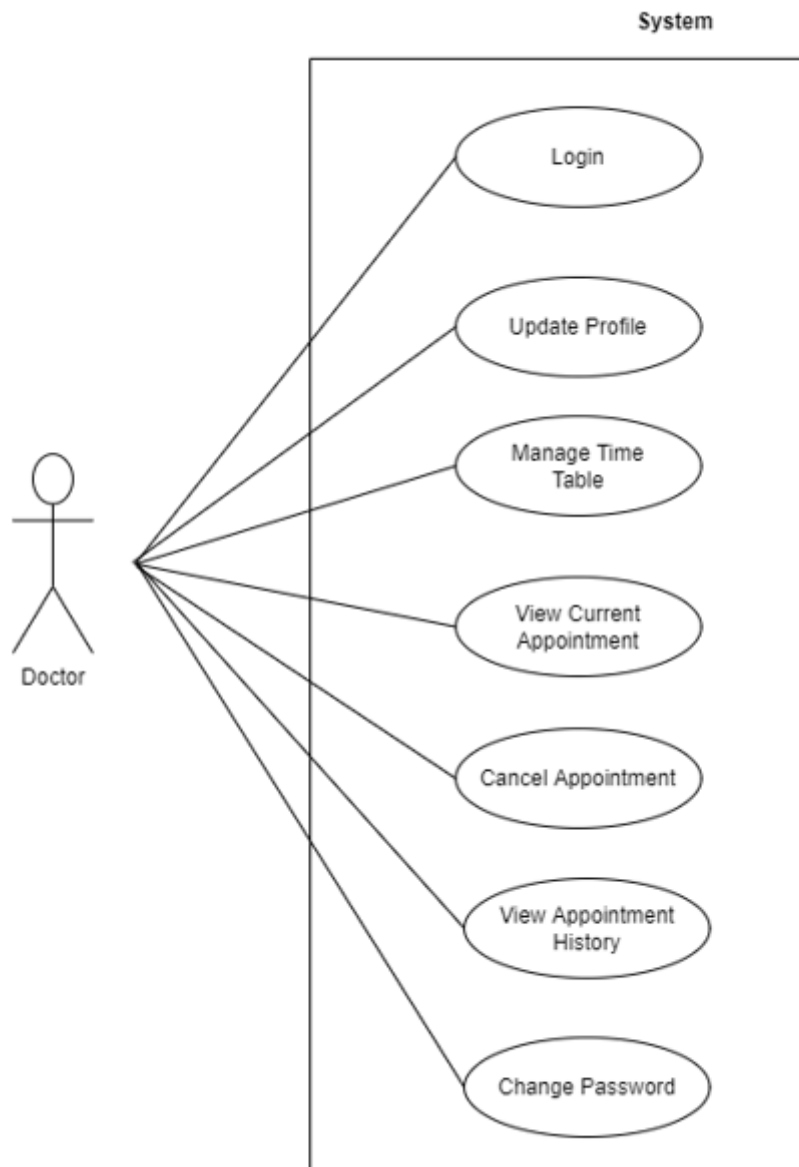


Fig. Use-Case Diagram for Doctor

5.3 Patient

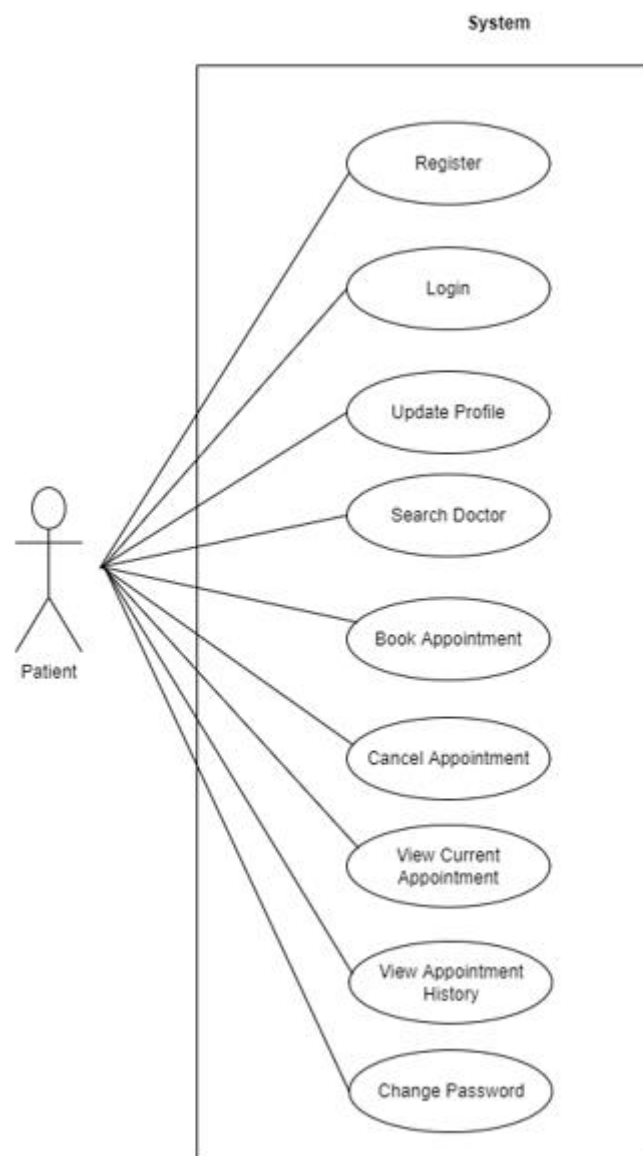


Fig. Use-Case Diagram for Patient

6. Database Design:

1] Login table

Field	Type	Null	Key	Default	Description
login_id	Integer	No	Primary key	AI	Login ID
user_name	Varchar(45)	No			User Name
password	Varchar(45)	No			User Password
user_type	Varchar(10)	No			Patient/ Doctor/ Admin
status	Varchar(10)			active	

2] Doctor table

Field	Type	Null	Key	Default	Description
doctor_id	Integer	No	Primary key	AI	Doctor ID
first_name	Varchar(45)	No			First Name
last_name	Varchar(45)	No			Last Name
mobile_number	Varchar(45)	No	Unique key		Mobile Number
gender	Integer	No			Gender
dob	date	No			Date Of Birth
graduation	Varchar(45)	No			Graduation
post_graduation	Varchar(45)				Post Graduation
speciality	Varchar(45)	No			Speciality
fees	Integer	No			Fees
area_id	Integer	No	Foreign key		Reference to area id
login_id	Integer	No	Foreign key		Reference to login id

3] Patient table

Field	Type	Null	Key	Default	Description
patient_id	Integer	No	Primary key	AI	Patient ID
first_name	Varchar(45)	No			First Name
last_name	Varchar(45)	No			Last Name
mobile_number	Varchar(45)	No	Unique key		Mobile Number
gender	Varchar(45)	No			Gender
blood_group	Varchar(45)	No			Blood Group
dob	date	No			Date Of Birth

login_id	Integer	No	Foreign key		Reference to login id
----------	---------	----	-------------	--	-----------------------

4] State table

Field	Type	Null	Key	Default	Description
state_id	Integer	No	Primary key	AI	State ID
state_name	Varchar(45)	No			State Name

5] City table

Field	Type	Null	Key	Default	Description
city_id	Integer	No	Primary key	AI	City ID
city_name	Varchar(45)	No			City Name
State_id	Integer	No	Foreign Key		Reference to state id

6] Area table

Field	Type	Null	Key	Default	Description
area_id	Integer	No	Primary key	AI	Area ID
area_name	Varchar(45)	No			Area Name
city_id	Integer	No	Foreign Key		Reference to city id

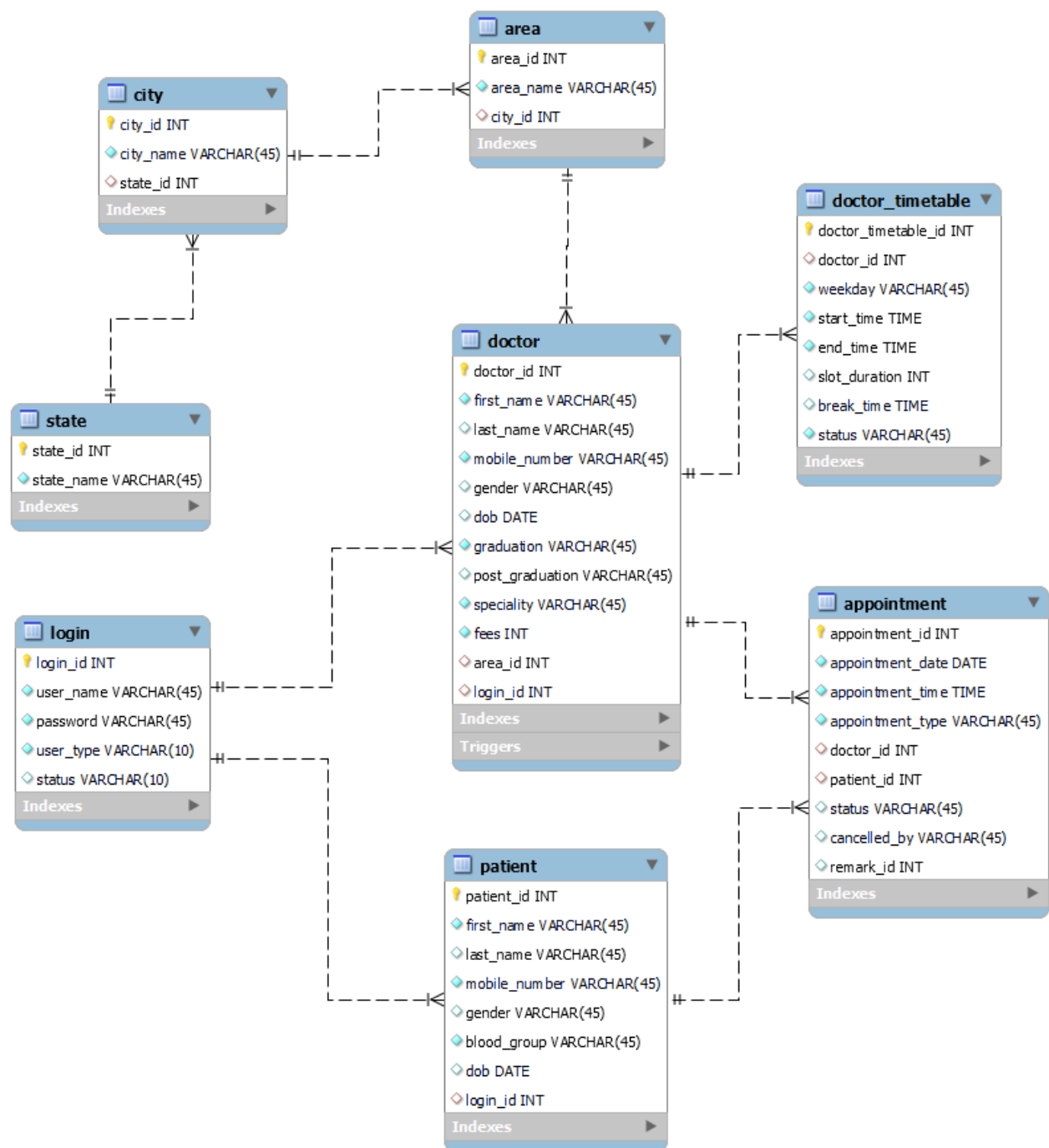
7] Doctor time table

Field	Type	Null	Key	Default	Description
doctor_timetable_id	Integer	No	Primary key	AI	Doctor Time Table ID
doctor_id	Integer	No	Foreign key		References doctor ID
weekday	Varchar(45)	No			Weekday
start_time	Time(0)	No			Start Time
end_time	Time(0)	No			End Time
slot_duration	Integer	No		30	Slot Duration
break_time	Time(0)	No		14:00:00	Break Time
status	Varchar(45)	No			Status

8] Appointment table

Field	Type	Null	Key	Default	Description
appointment_id	Integer	No	Primary key	AI	Appointment ID
appointment_date	date	No			Appointment Date
appointment_time	Time(0)	No			Appointment Time
appointment_type	Varchar(45)	No		walk-in	Appointment Type
doctor_id	Integer	No	Foreign key		References doctor ID
patient_id	Integer	No	Foreign key		References patient id
status	Varchar(45)	No		scheduled	Status
cancelled_by	Varchar(45)	No			Cancelled by

7. ER-Diagram:

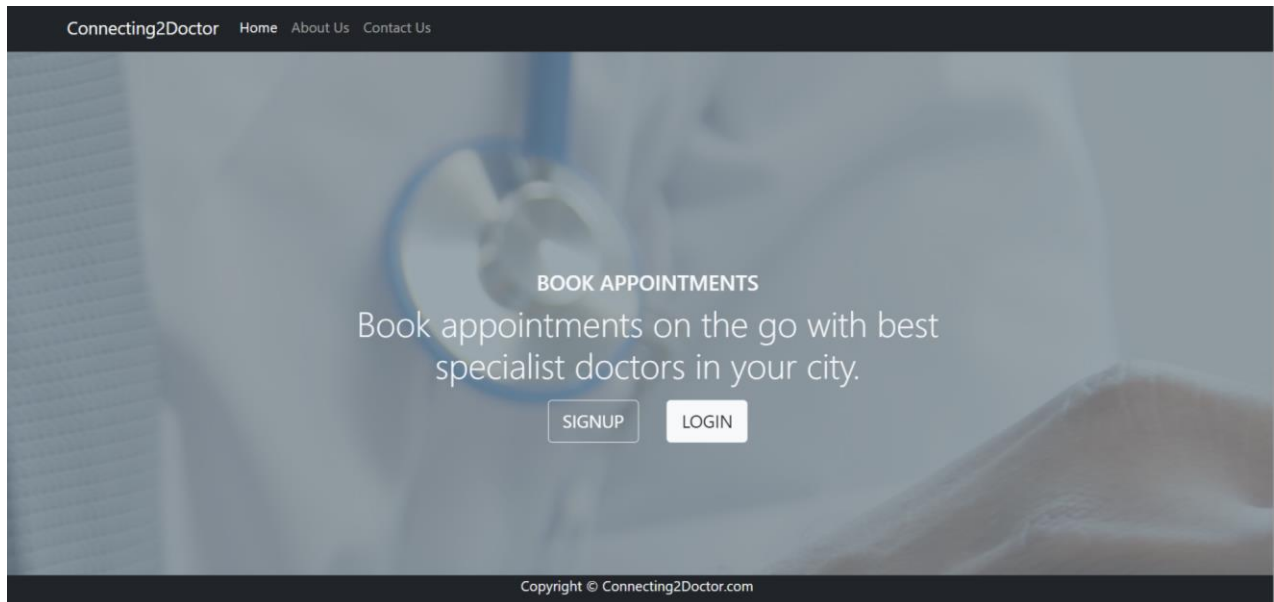


E-R diagram shows database of Connecting To Doctor

8. Snapshots:

8.1 Home Page:

Following snapshot shows the Home page for Connecting To Doctor.



This page contains following controls

- Home
- About Us
- Contact Us
- Sign Up (Patient)
- Login (Admin, Doctor, Patient)

8.2 About and Contact Page

Connecting2Doctor

Home

About Us

Contact Us

About Us

Connecting2Doctor is a platform for booking medical consultations with specialist doctors in your city online. Patient can book an appointment by selecting any of the time slot given by doctor.

Some additional functionalities are - user can search a doctor by area and specialization, both user and doctor can manage their booked appointments.

Regards, from creators:

- Akash Jaiswal
- Harshal Jawale
- Neha Ukey
- Shubham Mungse
- Atish Butkar

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Connecting2Doctor

Home

About Us

Contact Us

Contact

Start working with us today. For getting registered as a doctor please email your details to any of the given admin below :

- connectingtdoctor@gmail.com
- atishbutkar.project@gmail.com

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8.3 Login Page


Following snapshot shows the Login page for Connecting To Doctor.

Connecting2Doctor

Home

About Us

Contact Us



Login

User Name:

Password:

LoginCancel

[Forgot password? click here...](#)

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8.4 Patient Registration Page

Connecting2Doctor [Home](#) [About Us](#) [Contact Us](#)

Patient Registration

User Name:

Password:


first Name:

Last Name:

User mobile_number:

Gender: ☐ Male ☐ Female ☐ Other

Blood Group:

Date of Birth:
 

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8.5 Admin Dashboard

8.5.1 Admin Home Page

Connecting2Doctor [Home](#) [About Us](#) [Contact Us](#)

Hello, atishbutkar.project@gmail.com

Add New Doctor

Register a new doctor to database.

View Doctor List

View details of all registered doctors.

Enable/Disable

Enable or disable a doctor.

View Patient

View details of all registered patients.

Enable/Disable

Enable or disable a patient.

Add Area

Add new areas.

Add City

Add new cities.

Add State

Add new states.

8.5.2 Doctor Registration Page

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Add New Doctor

User Name:

Password:

First Name:

Last Name:

User mobileNumber:

Gender: ☐ Male ☐ Female ☐ Other

Date of Birth:

Graduation:

Post Graduation:

Speciality:

Fees:

Area ID:

Register

Reset

Cancel

Add Area

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8.5.3 View Doctor

Connecting2Doctor
[Home](#)
[About Us](#)
[Contact Us](#)

Go Back
Logout

Doctor List

First Name	Last Name	Mobile Number	Gender	Date Of Birth	Graduation	Post Graduation	Speciality	Fees	Area	City	State	Status	Action
Mayuresh	Lathkar	7350943266	Male	1997-09-14	MBBS	MD	Orthopedic	500	Hadapsar	Pune	Maharashtra	active	Deactivate
Akash	Jaiswal	8237590125	Male	1996-05-20	MBBS	MD	Cardiologists	1000	Viman Nagar	Pune	Maharashtra	active	Deactivate
Akash	Auti	7878984432	Male	1995-10-10	MBBS	MD	Gynecologist	600	Hadapsar	Pune	Maharashtra	active	Deactivate
Shubham	Mungse	9834661785	Male	1996-05-05	MBBS	MD	Pediatrician	400	Dadar	Mumbai	Maharashtra	active	Deactivate
Neha	Ukey	9552785965	Female	1996-03-17	BDS		BDS	300	Hadapsar	Pune	Maharashtra	active	Deactivate
Rahul	Mahajan	7845903216	Male	1996-04-04	MBBS		Physician	400	Hadapsar	Pune	Maharashtra	active	Deactivate
Ankita	Mishra	9296784432	Female	1995-06-	MBBS	MS	Gynecologist	500	Andheri	Mumbai	Maharashtra	active	Deactivate

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8.5.4 View Patient

Connecting2Doctor
[Home](#)
[About Us](#)
[Contact Us](#)

Go Back
Logout

Patient List

First Name	Last Name	Mobile Number	Gender	Date Of Birth	Blood Group	Status	Action
Vikas	Dandge	7972898178	Male	1995-01-07	B+	active	Deactivate
Harshal	Jawale	9834556117	Male	1997-09-26	A+	active	Deactivate

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8.5.5 Manage Account

Connecting2Doctor Home About Us Contact Us

Go Back

Logout

Doctor List

First Name	Last Name	Mobile Number	Gender	Date Of Birth	Graduation	Post Graduation	Speciality	Fees	Area	City	State	Status	Action
Mayuresh	Lathkar	7350943266	Male	1997-09-14	MBBS	MD	Orthopedic	500	Hadapsar	Pune	Maharashtra	active	Deactivate
Akash	Jaiswal	8237590125	Male	1996-05-20	MBBS	MD	Cardiologists	1000	Viman Nagar	Pune	Maharashtra	active	Deactivate
Akash	Auti	7878984432	Male	1995-10-10	MBBS	MD	Gynecologist	600	Hadapsar	Pune	Maharashtra	active	Deactivate
Shubham	Mungse	9834661785	Male	1996-05-05	MBBS	MD	Pediatrician	400	Dadar	Mumbai	Maharashtra	active	Deactivate
Neha	Ukey	9552785965	Female	1996-03-17	BDS		BDS	300	Hadapsar	Pune	Maharashtra	active	Deactivate
Rahul	Mahajan	7845903216	Male	1996-04-04	MBBS		Physician	400	Hadapsar	Pune	Maharashtra	active	Deactivate
Ankita	Mishra	9296784432	Female	1995-06-	MBBS	MS	Gynecologist	500	Andheri	Mumbai	Maharashtra	active	Deactivate

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Connecting2Doctor Home About Us Contact Us

Go Back

Logout

Patient List

First Name	Last Name	Mobile Number	Gender	Date Of Birth	Blood Group	Status	Action
Vikas	Dandge	7972898178	Male	1995-01-07	B+	active	Deactivate
Harshal	Jawale	9834556117	Male	1997-09-26	A+	active	Deactivate

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8.5.6 Manage Location

8.5.6.1 Add Area

Connecting2Doctor

Home

About Us

Contact Us

Add New Area

Go Back

Logout

Select State and City:

--state--

--city--

Area Name:

Enter Area Name

Add Area

Reset

Cancel

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8.5.6.2 Add City

Connect2YourDoctor

Home

About Us

Contact Us

Add New State

Go Back

Logout

Select State:

--state--

City Name:

Enter City Name

Add City

Reset

Cancel

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8.5.6.3 Add State

Connecting2Doctor

Home

About Us

Contact Us

Add New State

Go BackLogout

State Name:

Enter State Name

Add StateResetCancel

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8.6 Doctor Dashboard

8.6.1 Doctor Home Page

Connecting2Doctor

Home

About Us

Contact Us

Hello, Dr.Neha Ukey

LOGOUT

Update Profile

Update your account details.

UPDATE

Change Time Table Status

Change your time table status.

CHANGE

Cancel Appointments

Cancel your appointments.

CANCEL

Change Password

Change your password.

CHANGE

Update Time Table

Update your time table.

UPDATE

Current Appointments

Check your current appointments.

CHECK

Appointment History

Check your appointment history.

CHECK

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8.6.2 Update Profile

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Update Information

First Name:

Neha

Last Name:

Ukey

Mobile Number:

9552785965

Gender:

☐ Male ☒ Female ☐ Other

Date of Birth:

17-03-1996

Graduation:

BDS

Post Graduation:

Speciality:

BDS

Fees:

300

State:

Maharashtra

City:

Pune

Area:

Hadapsar

Update

Reset

Cancel

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8.6.3 Manage Time Table

8.6.3.1 Update Status

Connecting2Doctor [Home](#) [About Us](#) [Contact Us](#)

Go Back Logout

Get TimeTable

Doctor List

Weekday	Start Time	End Time	Slot Duration	Break Time	Status	Update	Change Status
Monday	10:00:00	18:00:00	30	14:00:00	not available	Update	Available
Tuesday	10:00:00	18:00:00	30	14:00:00	available	Update	Not Available
Wednesday	10:00:00	18:00:00	30	14:00:00	available	Update	Not Available
Thursday	10:00:00	18:00:00	30	14:00:00	available	Update	Not Available
Friday	10:00:00	18:00:00	30	14:00:00	available	Update	Not Available
Saturday	10:00:00	18:00:00	30	14:00:00	available	Update	Not Available
Sunday	10:00:00	18:00:00	30	14:00:00	not available	Update	Available

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8.6.3.2 Change Time Table

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Go Back Logout

Update Time Table

Weekday:
Monday

Monday

Start Time:
12:00:00

End Time:
18:00:00

Slot Duration:
60

Break Time:
14:00:00

Update Reset Cancel

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8.6.4 View/Cancel Appointment

Connecting2Doctor

Home

About Us

Contact Us

Go BackLogout

Show Current Appointments

Doctor List

Appointment Date	Appointment Time	Appointment Type	Appointment Status	Patient Id	Patient Name	Action
2022-09-23	10:00:00	walk-in	scheduled	2	Harshal Jawale	Cancel Appointment

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8.6.5 Appointment History

Connecting2Doctor

Home

About Us

Contact Us

Go BackLogout

Show All Appointment

Doctor List

Appointment Date	Appointment Time	Appointment Type	Appointment Status	Patient Id	Patient Name
------------------	------------------	------------------	--------------------	------------	--------------

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8.6.6 Change Password

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Change Password

Current Password:

Current Password

New Password:

New Password

Confirm Password:

Confirm Password

CHANGE

Cancel

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8.7 Patient Dashboard

8.7.1 Home Page

Connecting2Doctor

Home

About Us

Contact Us

Hello, Harshal Jawale

LOGOUT

Update Profile

Update your account details.

UPDATE

Search Doctor

Search doctor.

SEARCH

Current Appointments

Check your current appointments.

CHECK

Appointment History

Check your appointment history.

CHECK

Cancel Appointments

Cancel your appointments.

CANCEL

Book Appointment

Book your appointment.

BOOK

Change Password

Change your password.

CHANGE

8.7.2 Update Profile

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Update Information

First Name:

Harshal

Last Name:

Jawale

Mobile Number:

9834556117

Gender:

☒ Male ☐ Female ☐ Other

Date of Birth:

26-09-1997

Blood Group:

A+

Update

Reset

Cancel

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8.7.3 Search Doctor

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Search Doctor

Select Area:

--state--

--city--

--area--

--Speciality--

Search

Reset

Cancel

Doctor List

Speciality	First Name	Last Name	Gender	Graduation	Post Graduation	Fees	Area Name	City Name	State Name	Action
------------	------------	-----------	--------	------------	-----------------	------	-----------	-----------	------------	--------

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8.7.4 Book Appointment

Connecting2Doctor

Home

About Us

Contact Us

Go Back

Logout

Select a Date: 22-09-2022

View Time Slots

Select Day

Available Appointments

Slot	Action
10:00:00	<div>Book Appointment</div>
10:30:00	<div>Book Appointment</div>
11:00:00	<div>Book Appointment</div>
11:30:00	<div>Book Appointment</div>
12:00:00	<div>Book Appointment</div>
13:00:00	<div>Book Appointment</div>
13:30:00	<div>Book Appointment</div>

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8.7.5 View/Cancel Appointment

Connecting2Doctor

Home

About Us

Contact Us

Show Current Appointments

Go BackLogout

Patient Appointment List

Appointment Date	Appointment Time	Appointment Type	Appointment Status	Doctor Name	Doctor Speciality	Action
2022-09-23	10:00:00	walk-in	scheduled	Neha Ukey	BDS	Cancel Appointment
2022-09-30	10:30:00	walk-in	scheduled	Mayuresh Lathkar	Orthopedic	Cancel Appointment

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8.7.6 Appointment History

Connecting2Doctor

Home

About Us

Contact Us

Show Appointment History

Go BackLogout

Patient Appointment List

Appointment Date	Appointment Time	Appointment Type	Appointment Status	Doctor Name	Doctor Speciality
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8.7.7 Change Password

[Connecting2Doctor](#) [Home](#) [About Us](#) [Contact Us](#)

[Go Back](#) [Logout](#)

Change Password

Current Password:

New Password:

Confirm Password:

[CHANGE](#) [Cancel](#)

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9. CONCLUSION AND FUTURE SCOPE

9.1 Future Scope

- We can add Online Consultation and online fee payment
- Home visit of doctor
- Blood Bank
- Pathology (Home Service)

9.1 Conclusion

Internet is changing the world. Though it is not possible to entirely switch the healthcare sector to online mode. But definitely it can help in bridging the gap between Patient and Doctor. Our project Connecting To Doctor serves the purpose of bridging the gap. It makes easy for the patient to search for the doctor in his/her locality or in any other locality. Addition to this patient can also search for the doctor based on the doctor's specialty.

9.3 References

- [Reactjs.org](https://reactjs.org/)
- [Greekforgreek.org](https://greekforgreek.org/)
- [Springboot.io](https://springboot.io/)