Academy Of Information Technology (YCP)

Project Name: CONNECTING TO DOCTOR
Branch PG-DAC March- 2022.

Documentation On

"CONNECTING TO DOCTOR"
PG-DAC Sep 2021

Guided By:
Mr.Dhan sigh sir

Submitted By :
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<u>CERTIFICATE</u>

This is to certify that the project entitled

"CONNECTING TO DOCTOR"

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Of

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Nariman Point, Mumbai-400 021.

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Course Co-ordinator   **Director**

Batch: DAC March 2022 Batch
Date:

<u>ACKNOWLEDGEMENT</u>

We have taken efforts in this project. However, it would not have been possible without the kind

Support and help of many individuals. We would like to extend our sincere thanks to all of them. We

are highly indebted to our guide **Mr.Dhan sigh sir** for his guidance and constant supervision as well as

for providing necessary information regarding the project and also for his support in Completing the

project.

We express our thanks to our Director **Mr.S.N.Guptan** and our Course coordinator **Miss.**

Pradnya Kanoja for extending their support. We would also thank our Institution and the faculty

members without whom this project would have been a distant reality. Our thanks and appreciations

also go to all people who have willingly helped us out with their abilities.

SUBMITTED BY

- **Mr. Jawale Harshal**
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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-19care 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.

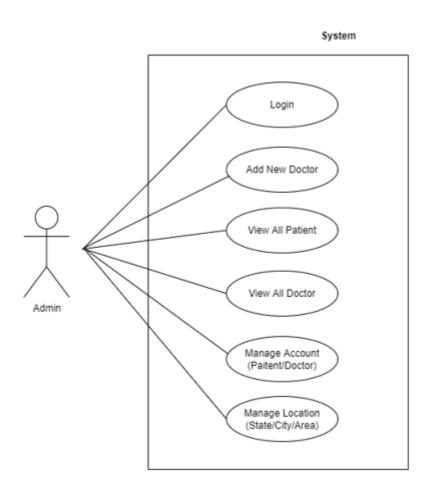- Doctor can change existing password.

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
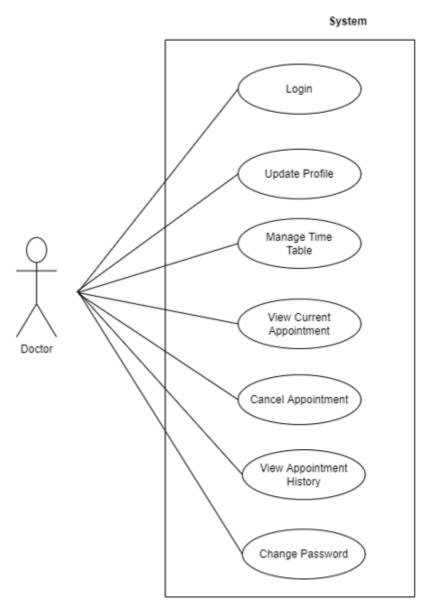
5.1 Admin

`Fig. Use-Case Diagram for Admin
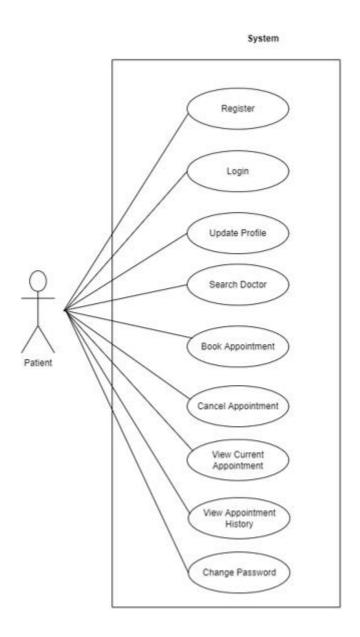
5.2 Doctor

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

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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

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8] Appointment table

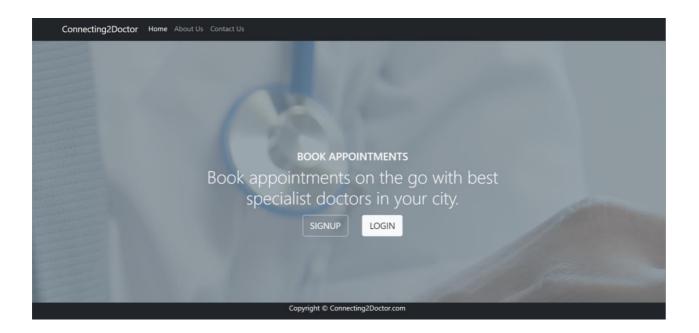| Field	Type	Null	Key	Default	Description
appointment_id	Integer	No	Primary key	AI	Appointment ID
appointment_date	date	No			Appointment Date
appointment_time	Time(0)	No			Appointment Time
appointment_type	Varchar(45)	No		walk-in	Appointment Type
doctor_id	Integer	No	Foreign key		References doctor ID
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

8.3 Login Page

Following snapshot shows the Login page for Connecting To Doctor.
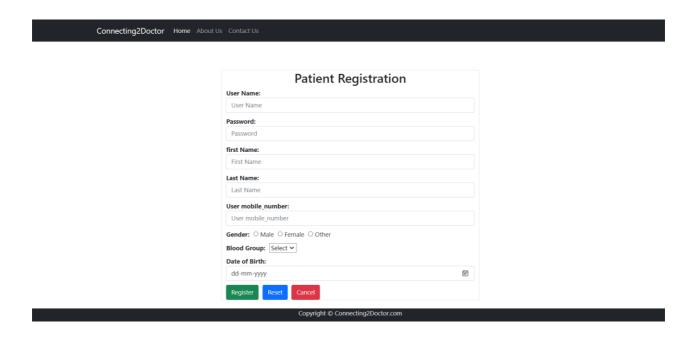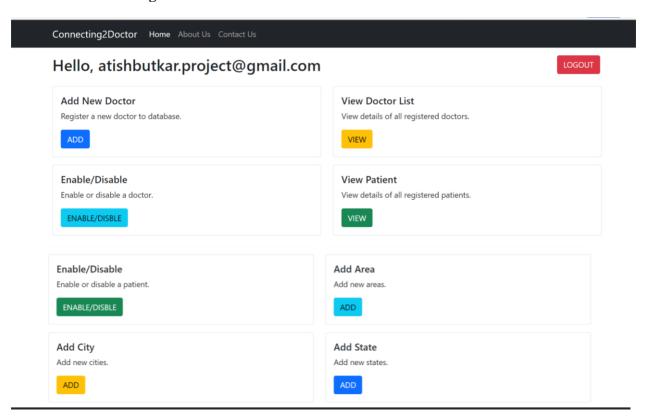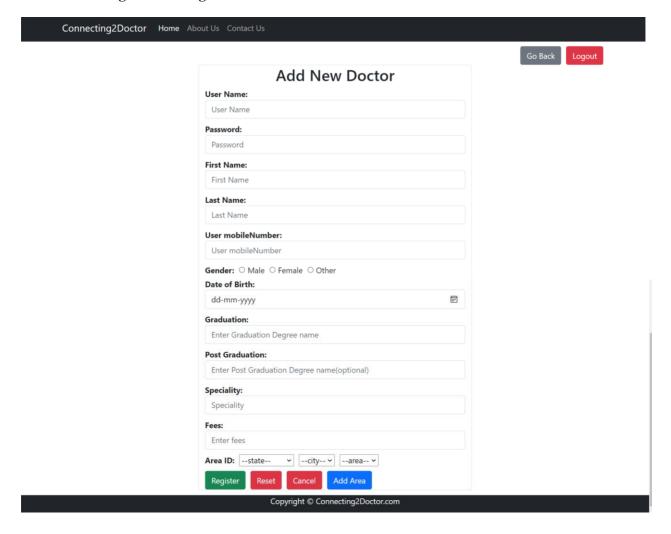
8.4 Patient Registration Page

8.5 Admin Dashboard

8.5.1 Admin Home Page
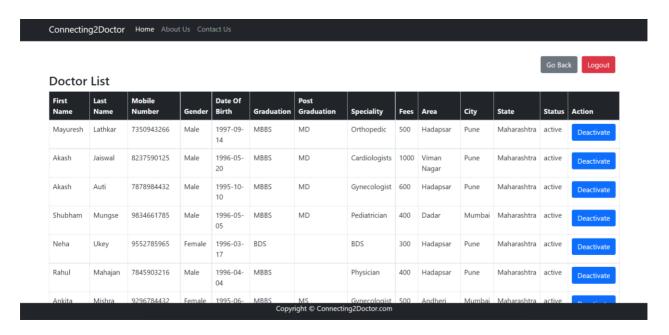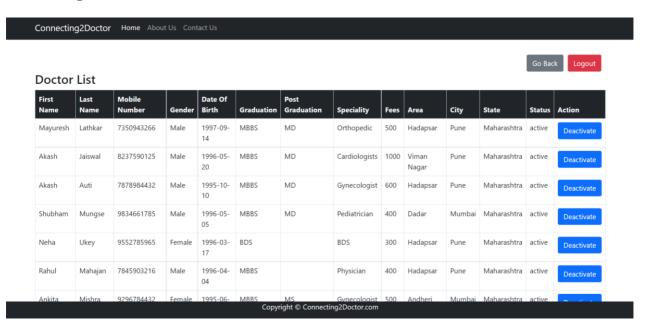
8.5.2 Doctor Registration Page

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	

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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	

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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

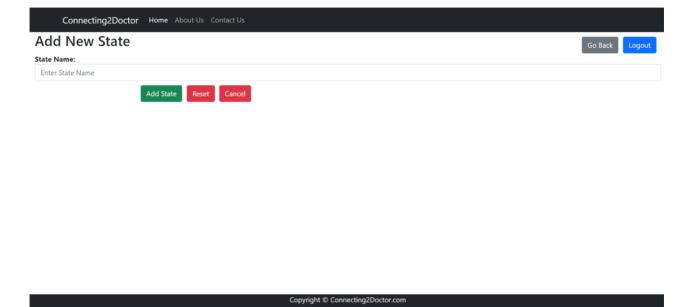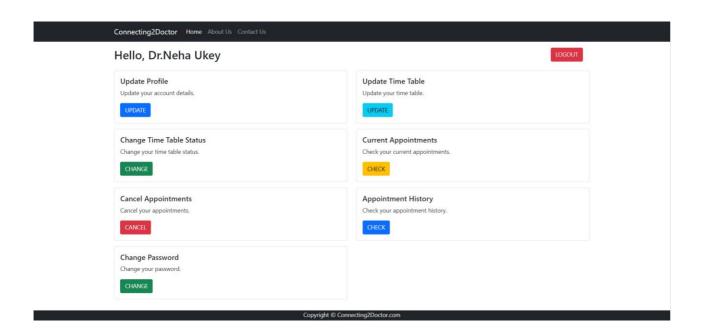8.5.6.1 Add Area

8.5.6.2 Add City

8.5.6.3 Add State

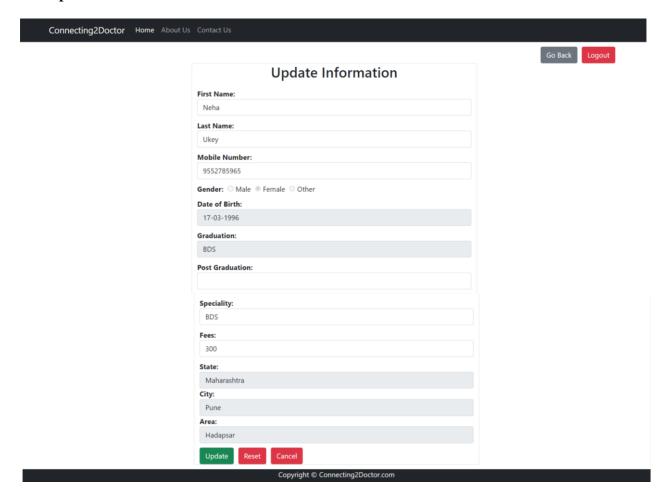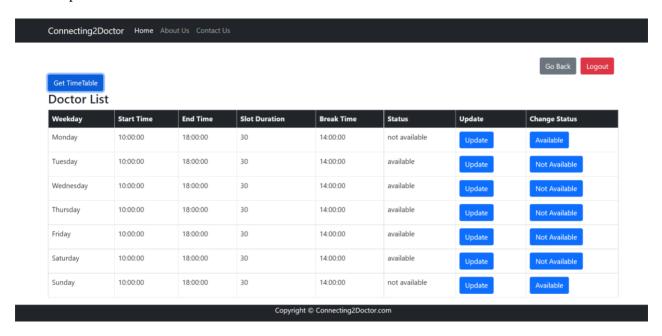# 8.6 Doctor Dashboard

8.6.1 Doctor Home Page

8.6.2 Update Profile
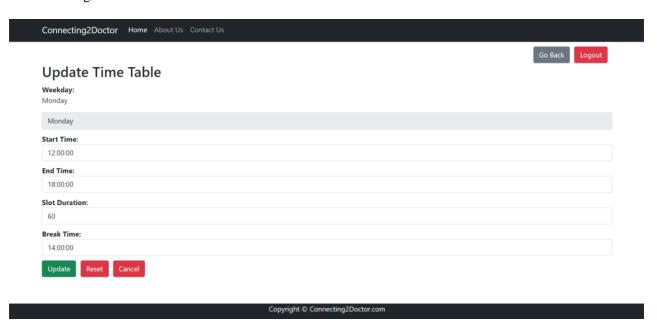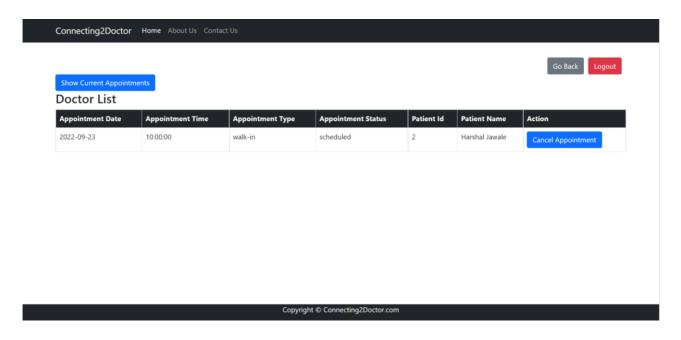
8.6.3 Manage Time Table

8.6.3.1 Update Status

8.6.3.2 Change Time Table

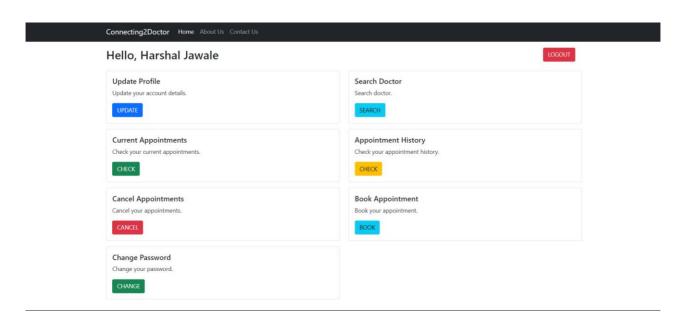## 8.6.4 View/Cancel Appointment
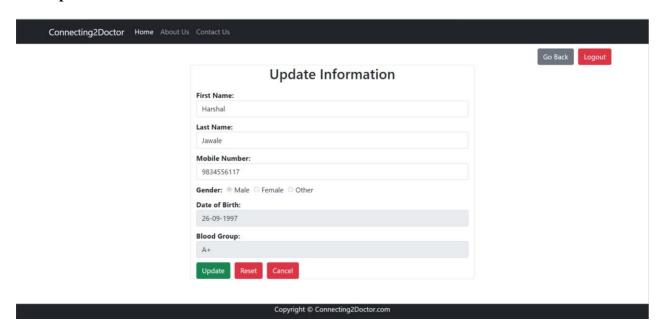

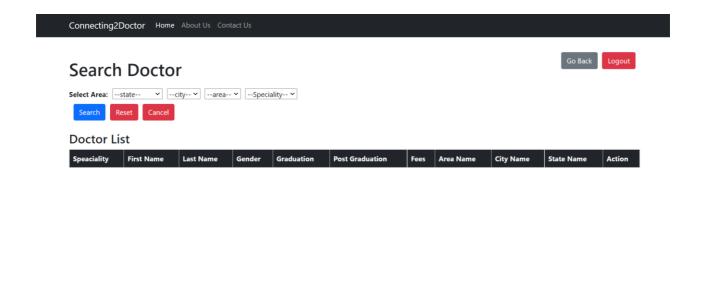## 8.6.5 Appointment History

8.6.6 Change Password

8.7 Patient Dashboard
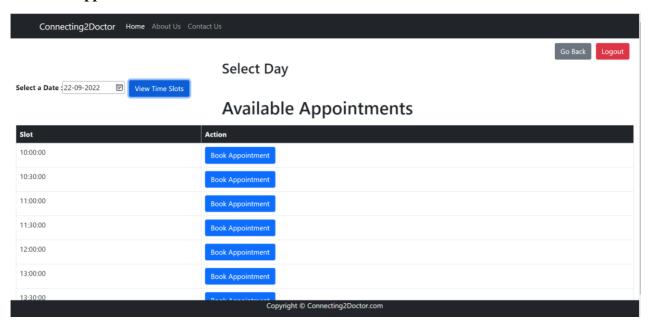
8.7.1 Home Page

8.7.2 Update Profile

8.7.3 Search Doctor

8.7.4 Book Appointment

8.7.5 View/Cancel Appointment

8.7.6 Appointment History

8.7.7 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

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
- Greekforgreek.org
- Springboot.io