



**Ganpat
University**

॥ विद्यया समाजोत्कर्षः ॥

**Department of
Computer Science**

A Project Report

On

DOC TELEHEALTH CONSULT

Submitted By

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B.Sc. (CA & IT) -V

Guided By

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Submitted to

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**Department of
Computer Science**

Date: 06/12/2021

CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the following students of B.Sc. (CA & IT) Semester-V have/has completed their/his/her project work titled “DOCT TELEHEALTH CONSULT” satisfactorily and fulfill the requirement of B.Sc. (CA & IT) Semester-V, Department of Computer Science, Ganpat University in the academic year 2021-2022.

Sr. No.	Student Name	Enrollment No.
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3.	Krina Khamar	19082221083

Internal Guide	Project Coordinator	Program Coordinator	Principal
Mr./Ms./Dr. ***	Ms. Deepika Patel	Dr. Ketan Patel	Dr. Nirbhay Chaubey

ACKNOWLEDGEMENT

It is a great sense of satisfaction that we present our real venture in practical computing in the form of project work. It is also a matter of privilege and an honor of us to work on the project “**DOCT TELEHEALTH CONSULT**”. We wish to express our heart full thanks to all who assisted us during the project.

Certainly, the project could not have been completed without valuable suggestions and guidance from various sources. Very special thanks to the entire faculty and especially **MS. HELLY B. PATEL**, who helped us to create such a system.

We are very grateful to **Ganpat University** and to our college **Department of Computer Science, Kherva** in which we are going to submit our project.

With Sincere regard from,

SRUSTI DAVE

LAVINA AGARWAL

KRINA KHAMAR

PREFACE

The main purpose of making this system is, if anybody is ill and want to visit a doctor for checkup, he or she needs to visit the hospital and waits until the doctor is available. The patient also wait in a queue while getting appointment.

If the doctor cancels the appointment for some reasons patient is not able to know about the cancelation of the appointment unless or until he or she visits the hospital. As the mobile communication technology is developing rapidly, therefore, one can use web application to overcome such problems and inconvenience for the patients.

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1.0 PROJECT PROFILE

Project Name:	Doct Telehealth Consult
Platform of Application:	Web Application
Front End:	Node Js (17.1.0) , React Js (17.0.2) , Bootstrap (5.1), HTML , Css
Back End:	Mongo DB (5.0.4)
Other Tools:	Visual Studio code, bootstrap
Reference From:	Google , you tube , W3school ,
Internal Project Guide:	Miss. Helly B. Patel
Time Duration:	90 DAYS

2.0 OBJECTIVE

The purpose of introducing this “DOCT TELEHEALTH CONSULT” is to provide health services with less resources. The main objective of the project is to reduce the manual work for managing the Doctor, Patient Appointment.

Do you know what helps you make your point clear? Lists like this one:

They’re simple. You can organize your ideas clearly.

You can directly consult to your preferable Doctor basis on your diseases.

And the most important thing: the patient will get appropriate and quicker solution of their problems.

3.0 Existing System:

□ Here some problems with the Existing System

1. It takes more time for OTP process.
2. Specification for every disease are not properly available.
3. Symptoms wise diseases identification is not available.
4. Name of Applications: -

1. MFine2. Practo3. DocsApp

4.0 SYSTEM REQUIREMENTS

4.1 SOFTWARE REQUIREMENT

Server side	
Operating System	Windows server 2007 or any equivalent server OS
Front End	Node Js (17.1.0) , React Js (17.0.2) , Bootstrap (5.1) , HTML , Css
Back End	Mango DB (ver 5.0.4)
Web Server	Local server

Client Side	
Operating System	Any Equivalent OS

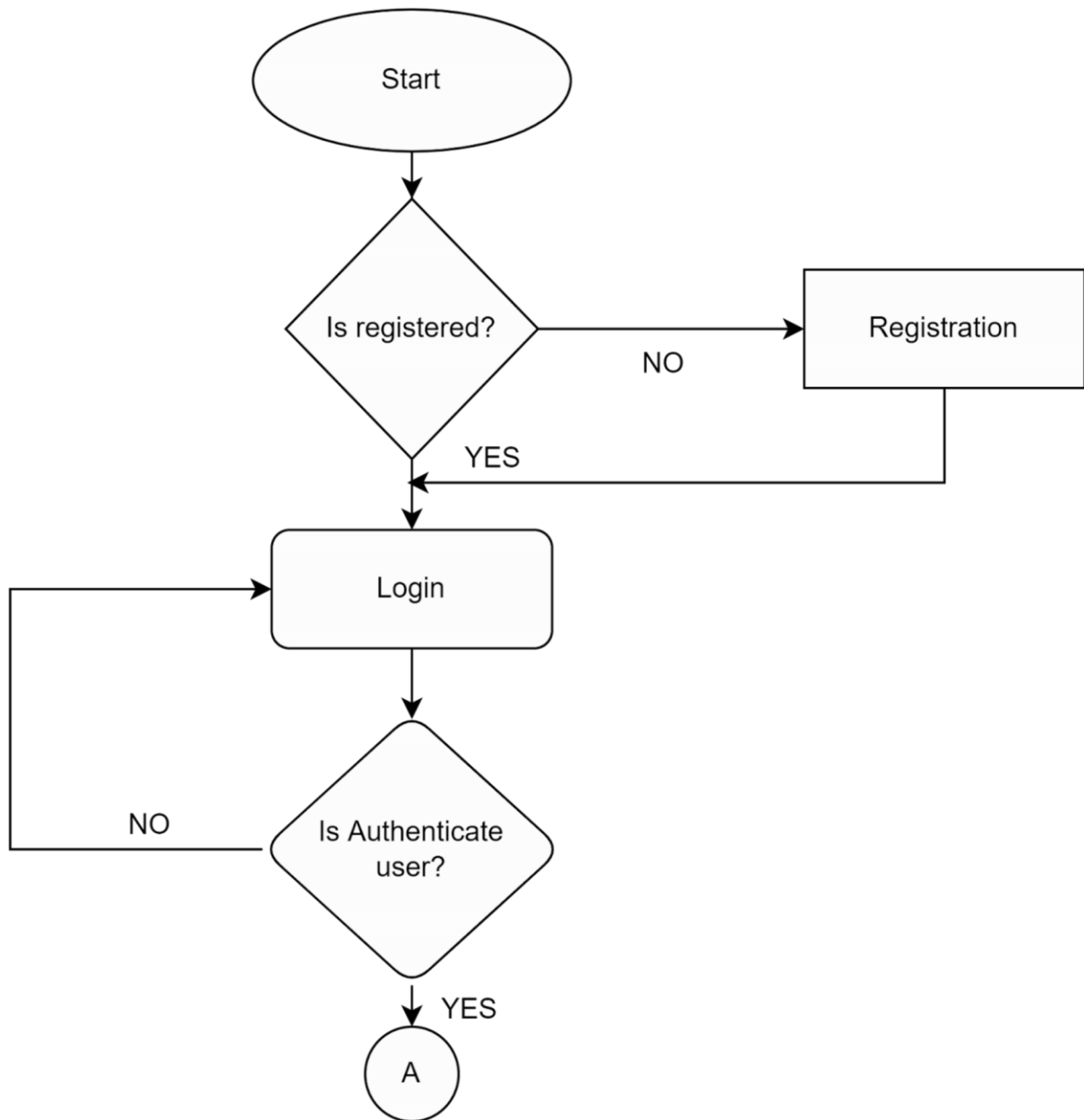
4.0 SYSTEM REQUIREMENTS

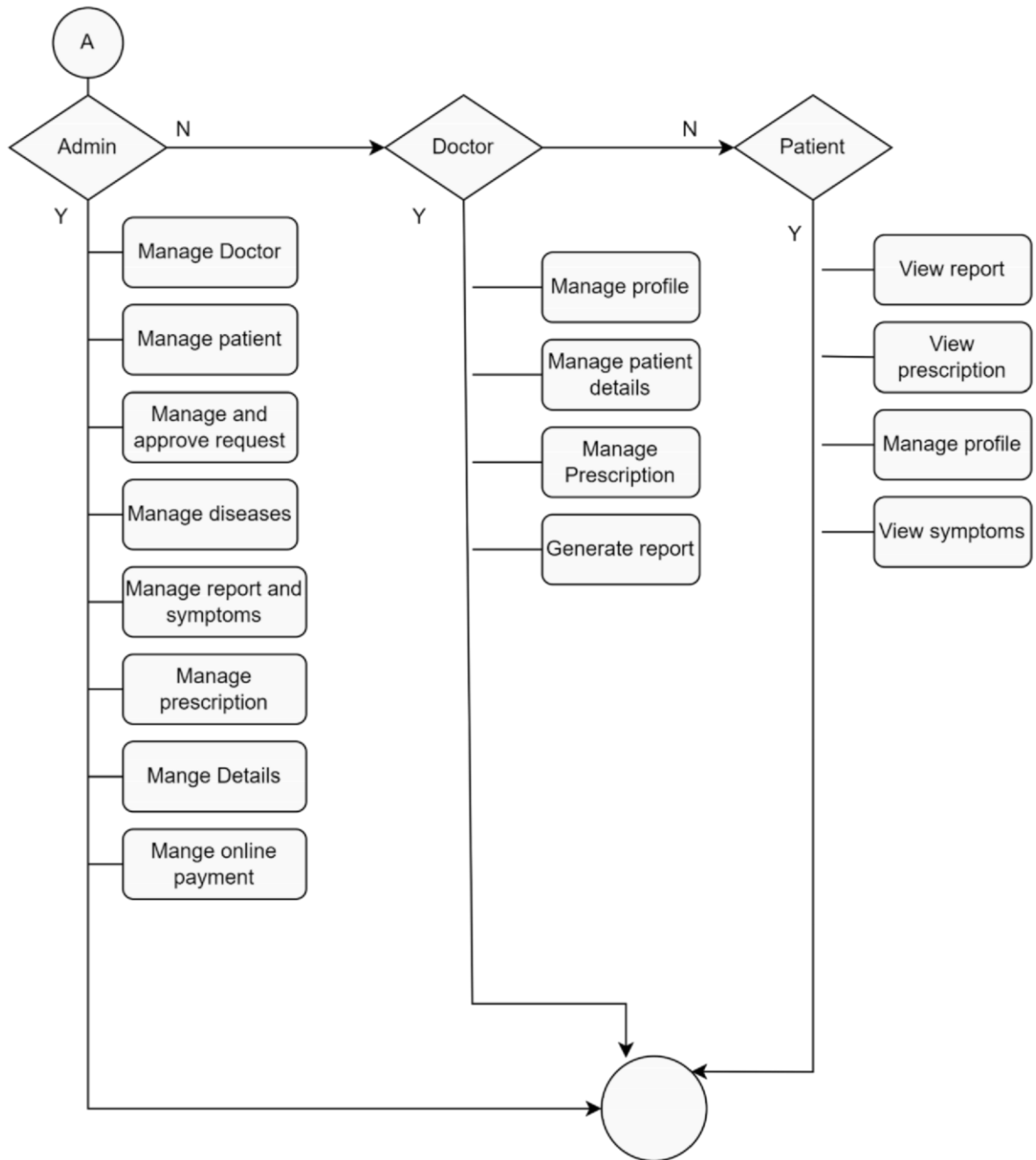
4.2 HARDWARE REQUIREMENT

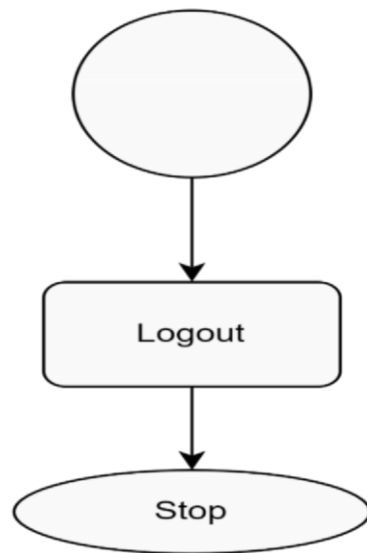
Server Side	
Processor	2.0 GHZ
RAM	2 GB
Free Hard disk space	500 MB Free space

Client Side	
Processor	Any Equivalent Supported
RAM	512 MB
Free Hard disk space	1.3 GHz

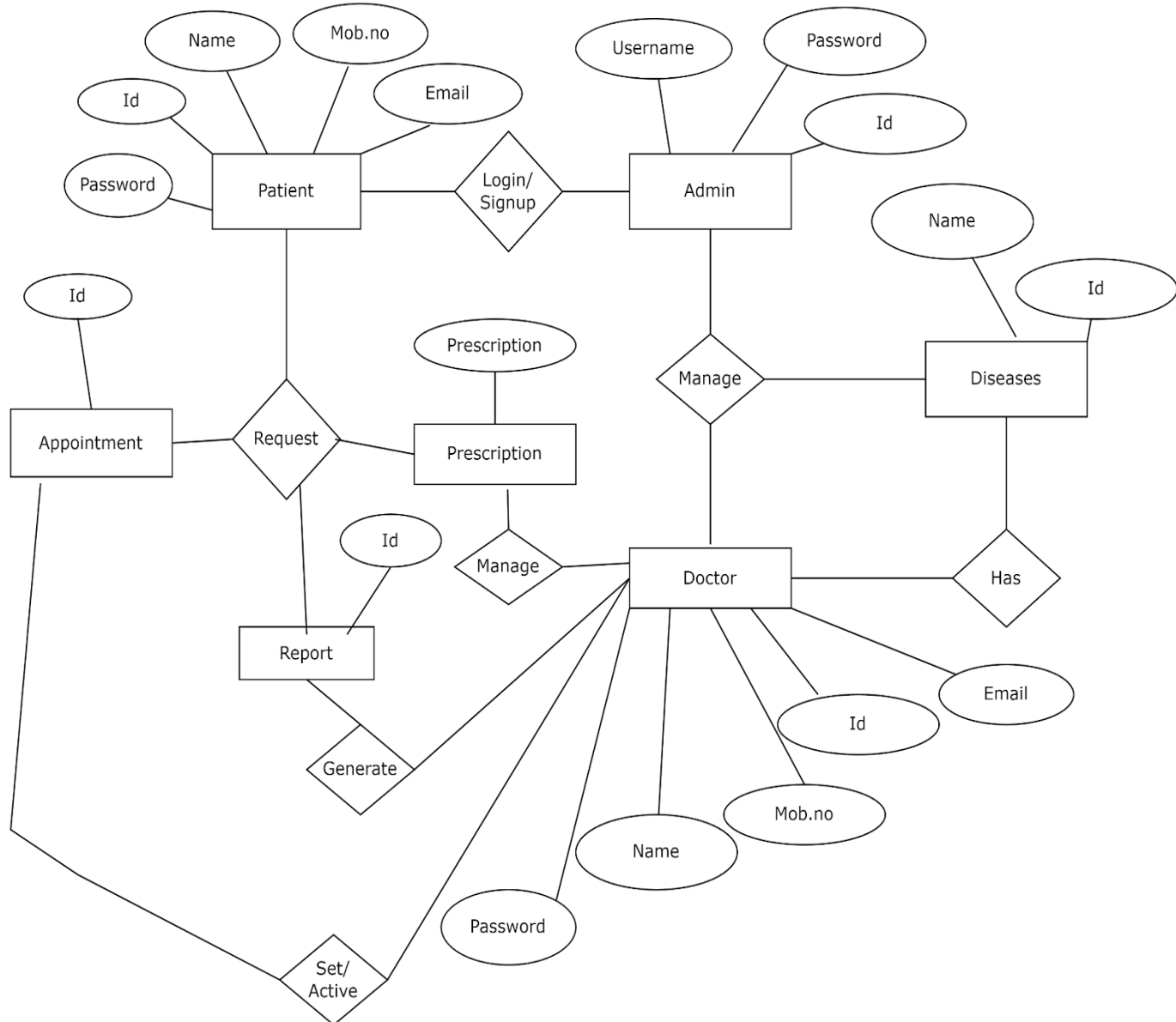
5.0 SYSTEM FLOWCHART





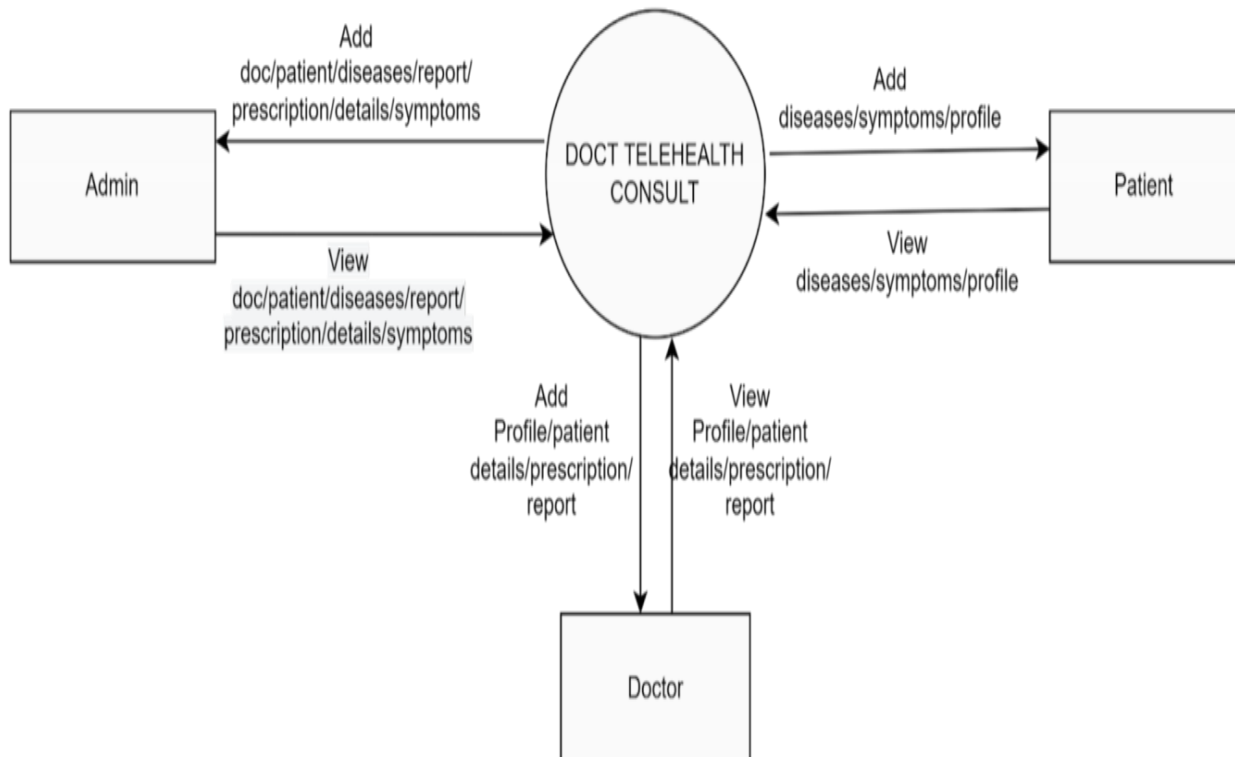


6.0 ENTITY RELATIONSHIP

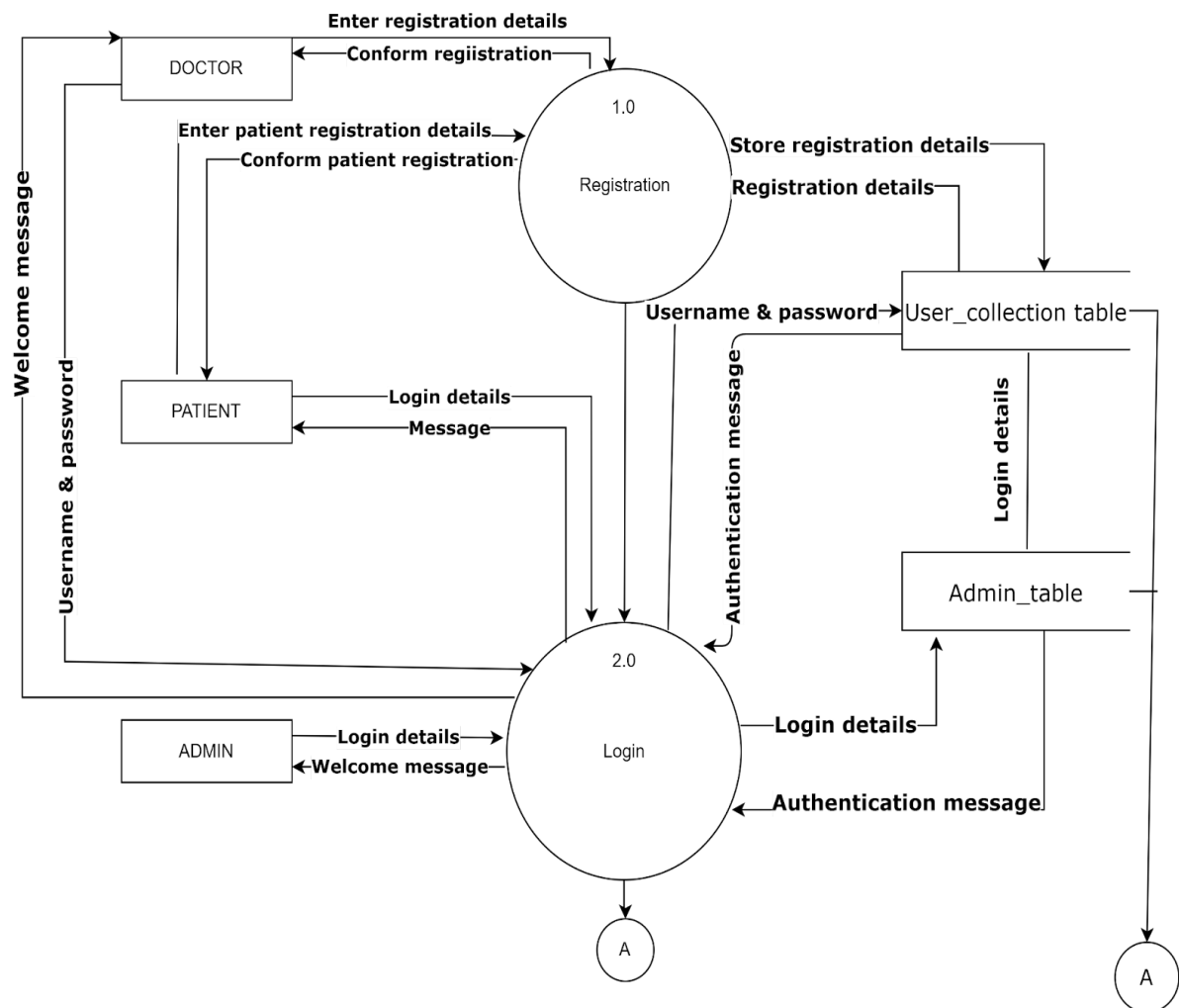


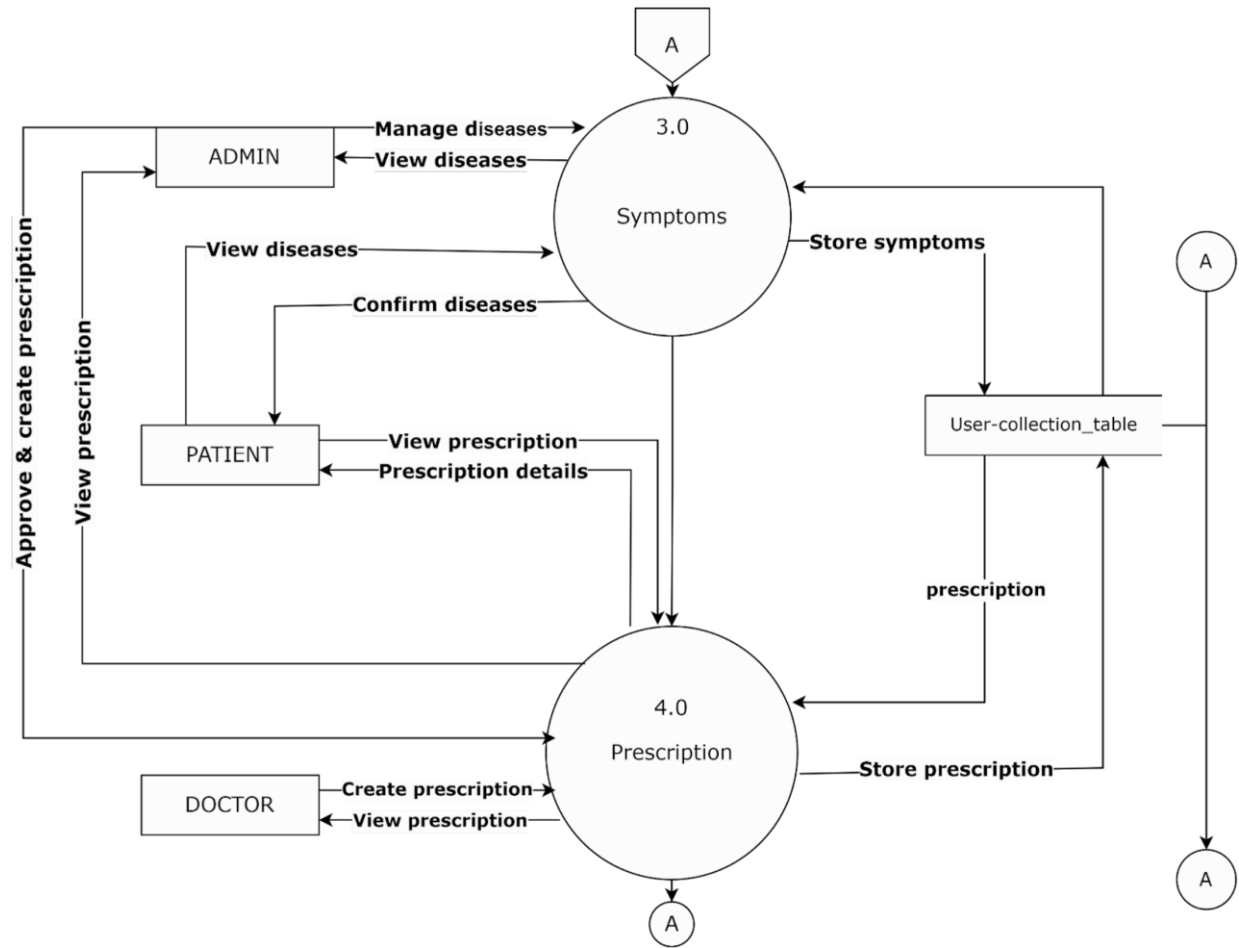
7.0 DATAFLOW DIAGRAM

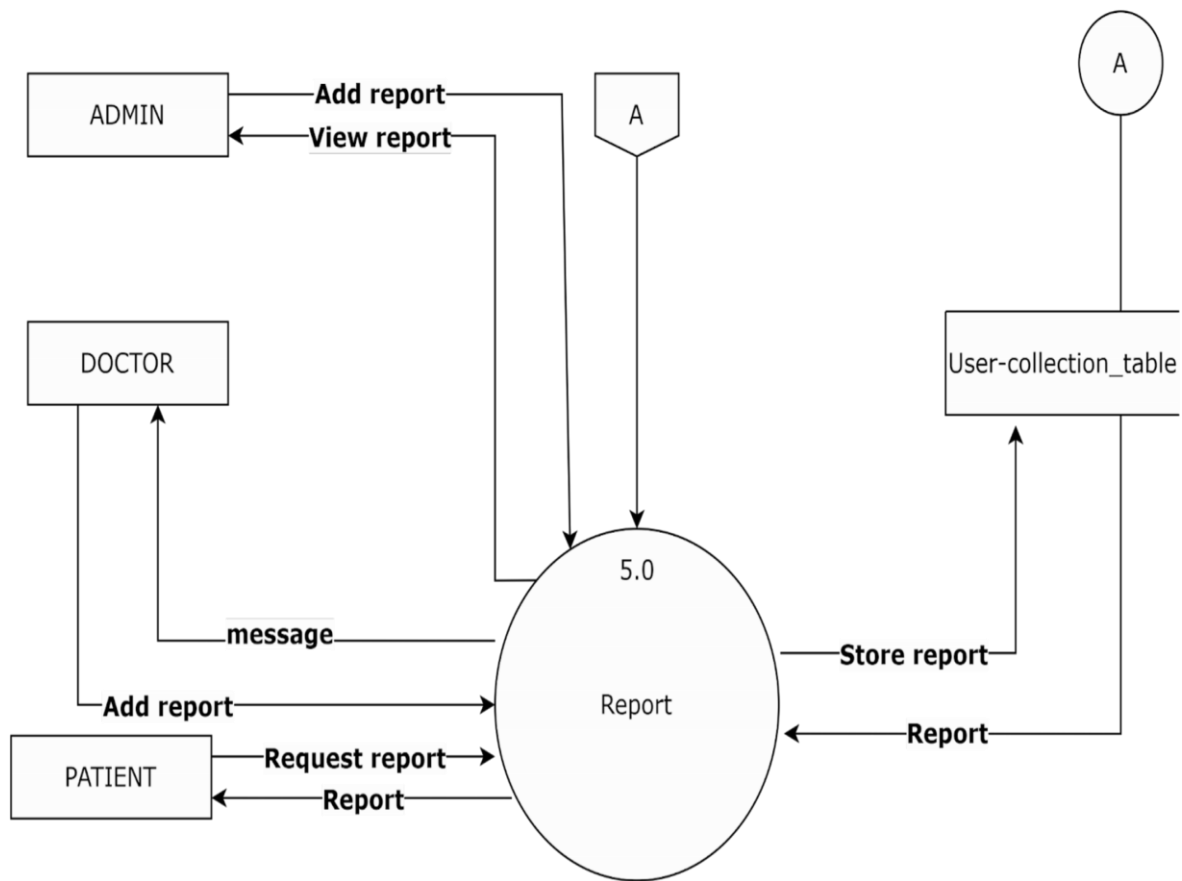
Context level:



First Level DFD:







8.0 DATA DICTIONARY

User collection

Table Name:	User collection
Primary Key:	pk=_id
Description:	Keep details about user doctor and admin

Sr. N0	Field Name	Data Type	Constraint	Description	Sample data
1	_id	Object	Primary key	Store user_id	61a65645ca17789e67d34673
2	name	String	Required	Store user name	test3
3	email	String	Required	Store user's email id	test3@gmail.com
4	Mobile No	String	Required	Store user's mobileNo	09512669925
5	password	String	Required	Store password	\$2a\$10\$uxUn4XWRFwACZv25CWq9aOVUfxNMCk/.dOGxwKfQSMhUy7Lm83Mk6

6	qualification	String	Required	Qualification of doctor	D.D.S
7	role	String	Required	Role of doctor	1 for doctor 0 for patient 2 for admin
8	speciality	String	Required	Speciality of doctor	Dentist
9	memberSince	String	Required	Experience of doctor	2.4
10	isActive	String	Required	Doctor active or not	true
11	appointment	String	Required	Patient appointment	Patient Appointment

Admin collection

Table Name:	Admin collection
Primary Key:	pk=_id
Description:	Keep details about admin

Sr. N0	Field Name	Data Type	Constraint	Description	Sample data
1	_id	Object	Primary key	Store user_id	61a65645ca17789e67d34673
2	name	String	Required	Store user name	test3
3	email	String	Required	Store user's email id	test3@gmail.com
4	MobileNo	String	Required	Store user's MobileNo	09512669925
5	password	String	Required	Store password	\$2a\$10\$uxUn4XWRFwACZv25CWq9aOVUfxNM Ck/.dOGxwKfQS MhUy7Lm83Mk6

6	qualification	String	Required	Qualification of doctor	D.D.S
7	role	String	Required	Role of doctor	1 for doctor 0 for patient 2 for admin
8	speciality	String	Required	Speciality of doctor	Dentist
9	memberSince	String	Required	Experience of doctor	2.4
10	isActive	String	Required	Doctor active or not	true
11	appointment	String	Required	Patient appointment	Patient Appointment

Specialties collection

Table Name:	Specialties collection
Primary Key:	pk=_id
Description:	Keep details about user doctor and admin

Sr.N0	Field Name	Data Type	Constraint	Description	Sample data
1	Picture	String	Required	Store picture	
2	Title	String	Required	Store Title	

9.0 TESTING

Sr. N O	Test Case ID	Test Case name	Test Case Desc	Step	Expected result	Actual result	Statu s
1	Login Admin	Validate login	Verify that Login name On login page	Enter name and password And click on submit button	Login successful or an error message invalid login or password must be displayed	Login successfu l	pass
2	Login Doctor/Patie nt	Validate login	Verify that Login name On login page	Enter name and password And click on submit button	Login successful or an error message invalid login or password must be displayed	Login successfu l	pass
3	Password	Validate password	To verify password	Enter Password and Login name Click on submit button	An error message “password Is invalid” Must be displayed	An error message “passwor d is invalid displayed	pass

4	Appointment	Approve appointment	Verify that appointment is approve or not	Take appointment	If slot is already acquired another patient can't get appointment	slot is already acquired	Pass

10. Input /output Designs

Login page: -

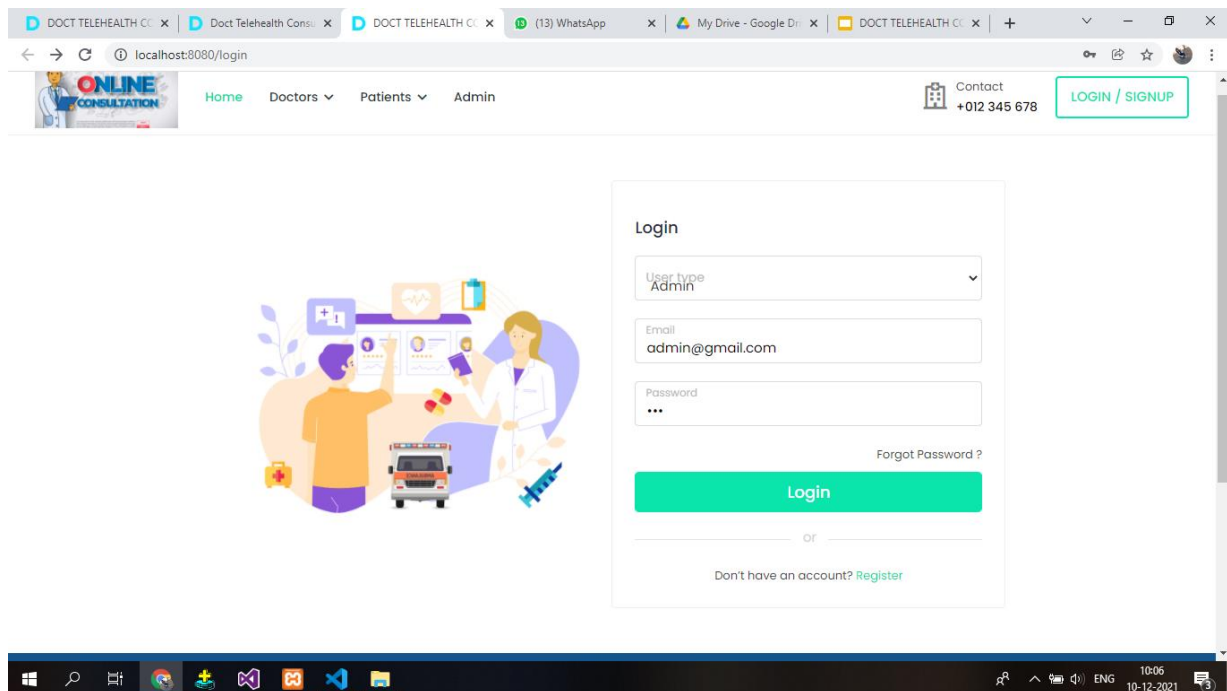
This is a Login Page where user can Login easily by entering some information.

Admin Authentication: -

It is the admin authentication page.

Admin login: -

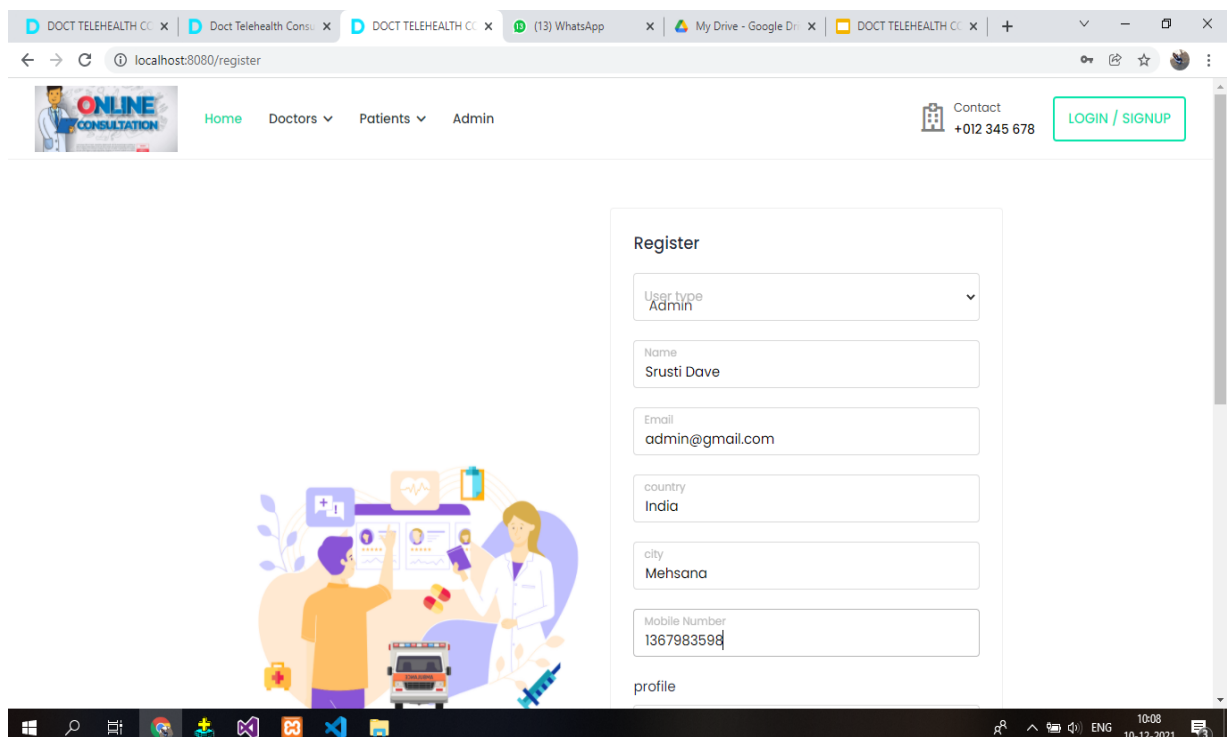
Admin enter its details and password and get logged in into the page.



The screenshot shows a web browser window with the URL `localhost:8080/login`. The page features a navigation bar with 'Home', 'Doctors', 'Patients', and 'Admin' links. A 'Contact' section displays '+012 345 678' and a 'LOGIN / SIGNUP' button. The main content area includes an illustration of a doctor and a patient, and a 'Login' form. The form has a 'User type' dropdown set to 'Admin', an 'Email' field with 'admin@gmail.com', and a 'Password' field with three dots. A 'Forgot Password?' link is next to the password field. A green 'Login' button is at the bottom of the form. Below the button is a link: 'Don't have an account? Register'.

Admin registration: -

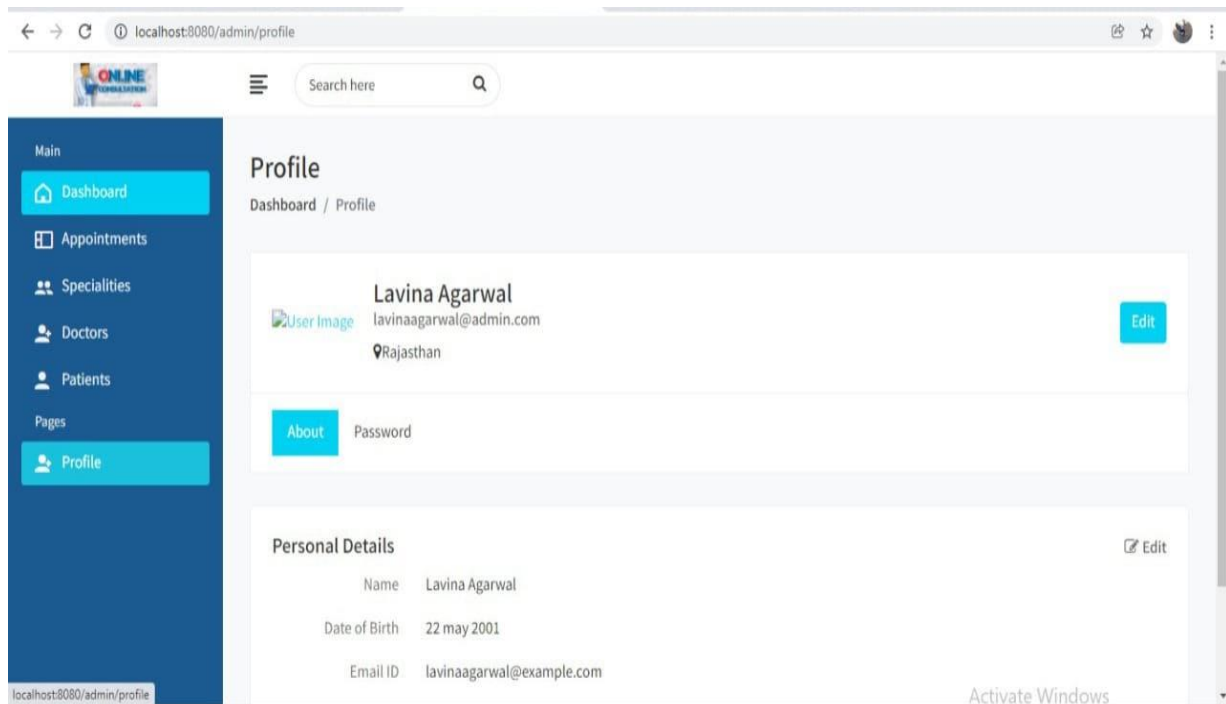
In this page admin enter all the relevant details.



The screenshot shows a web browser window with the URL `localhost:8080/register`. The page features a navigation bar with 'Home', 'Doctors', 'Patients', and 'Admin' links. A 'Contact' section displays '+012 345 678' and a 'LOGIN / SIGNUP' button. The main content area includes an illustration of a doctor and a patient, and a 'Register' form. The form has a 'User type' dropdown set to 'Admin', and fields for 'Name' (Sruti Dave), 'Email' (admin@gmail.com), 'country' (India), 'city' (Mehsana), and 'Mobile Number' (1367983598). A 'profile' link is at the bottom of the form.

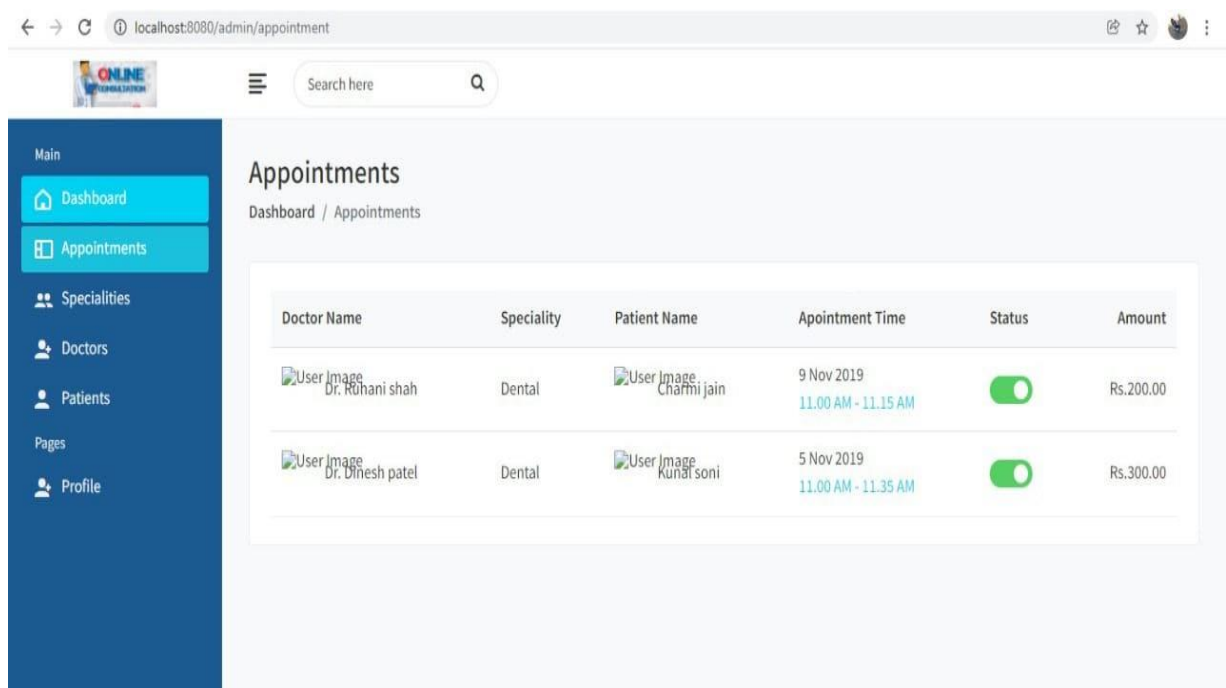
Admin profile: - Dashboard

This is the admin dashboard page where admin profile is shown.



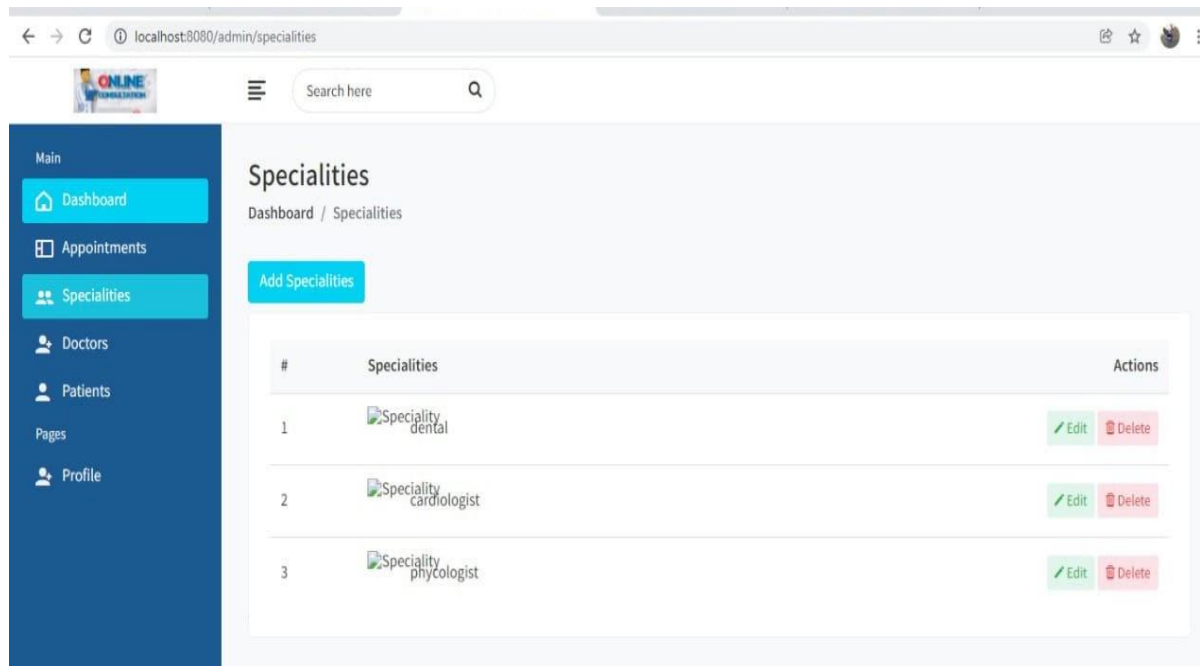
Appointment: Appointment list

It is used for viewing the total appointments.



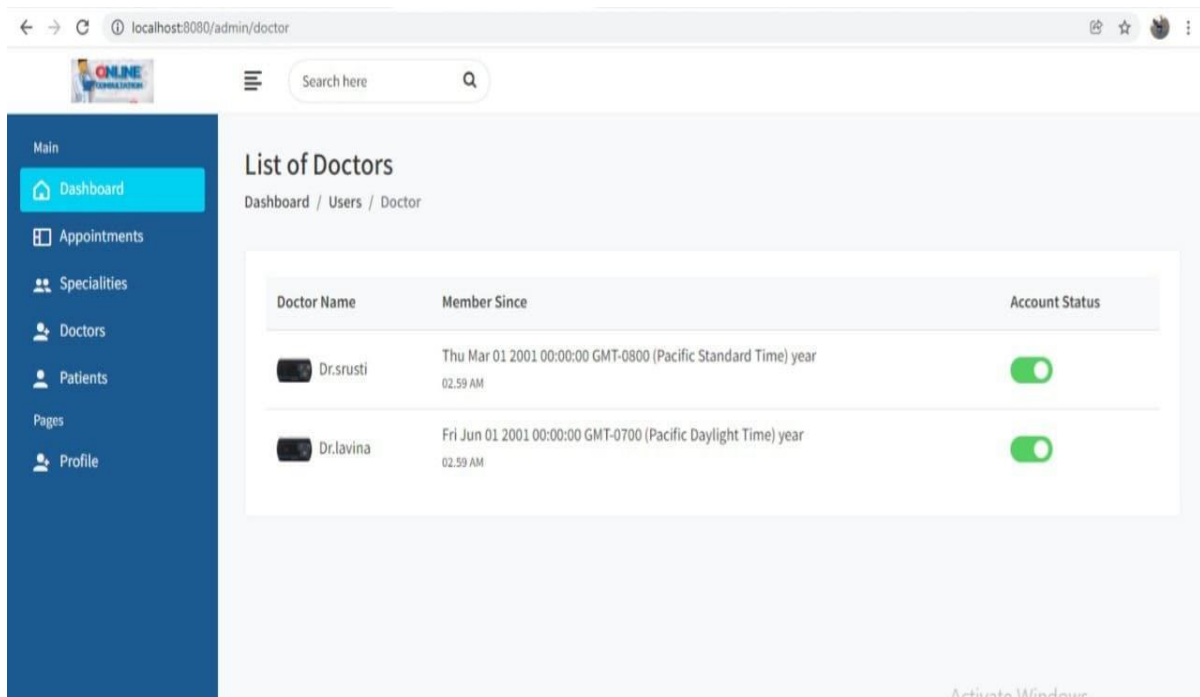
Specialities Screen: -

It is used for viewing the total appointments.



Doctor: List of Doctors

This page is consisting of all the list of registered doctors.



Patient: List of patient

This page is consisting of all the registered patients list.

The screenshot shows a web application interface for 'DOCT TELEHEALTH CONSULTATION'. The left sidebar contains navigation links: Main, Dashboard, Appointments, Specialities, Doctors, Patients, Pages, and Profile. The main content area is titled 'List of Patient' and shows a table of registered patients.

Patient ID	Patient Name	City	Phone
#PT001	rahi	Mehsana	7622945228
#PT001	srusti	Mehsana	1234567890
#PT001	mahi	Mehsana	1234567890
#PT001	krina	Mehsana	1367983598
#PT001	qwe	Mehsana	1234567890
#PT001	Srusti Dave	Mehsana	1234567890

Doctor Login: -

This is the page from where doctor gets log in to the application.

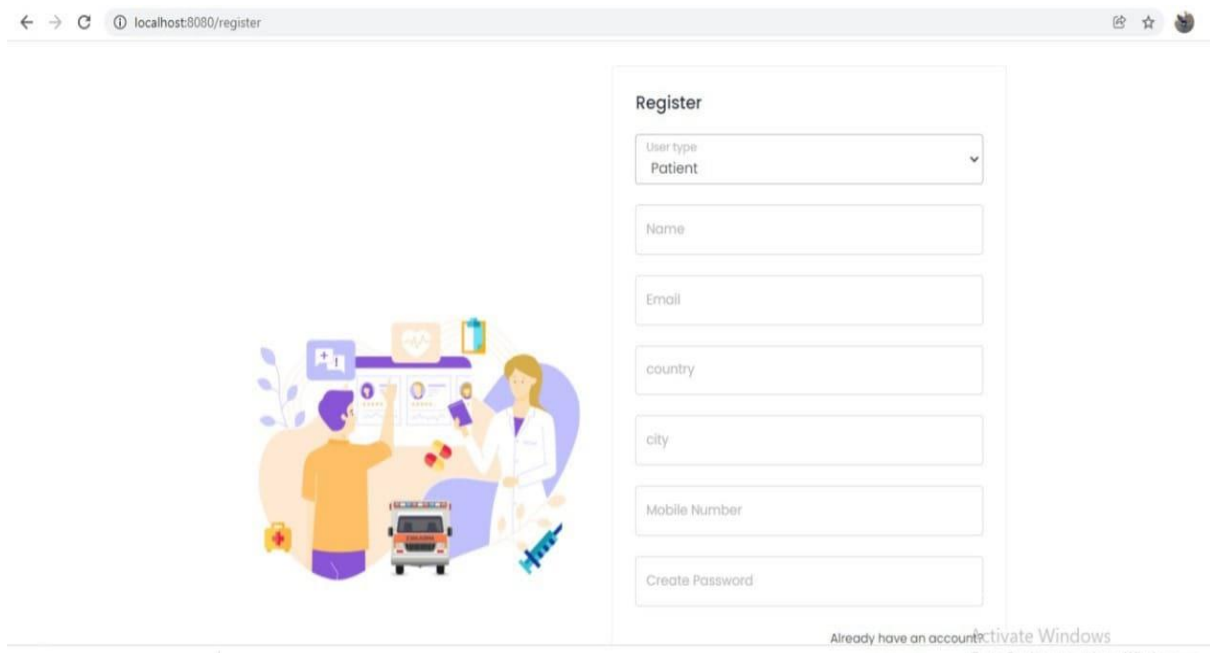
The screenshot shows the 'Doctor Login' page of the 'DOCT TELEHEALTH CONSULTATION' application. The page has a navigation bar with links: Home, Doctors, Patients, and Admin. A 'Contact' section shows '+012 345 678' and a 'LOGIN / SIGNUP' button. The main content area includes a large illustration of a doctor and a patient, and a login form.

Login Form:

- User type: Doctor (dropdown menu)
- Email: [input field]
- Password: [input field]
- Forgot Password? [link]
- Login [button]

Doctor registration: - user type

This page is used for selecting the user type.



localhost:8080/register

Register

User type
Patient

Name

Email

country

city

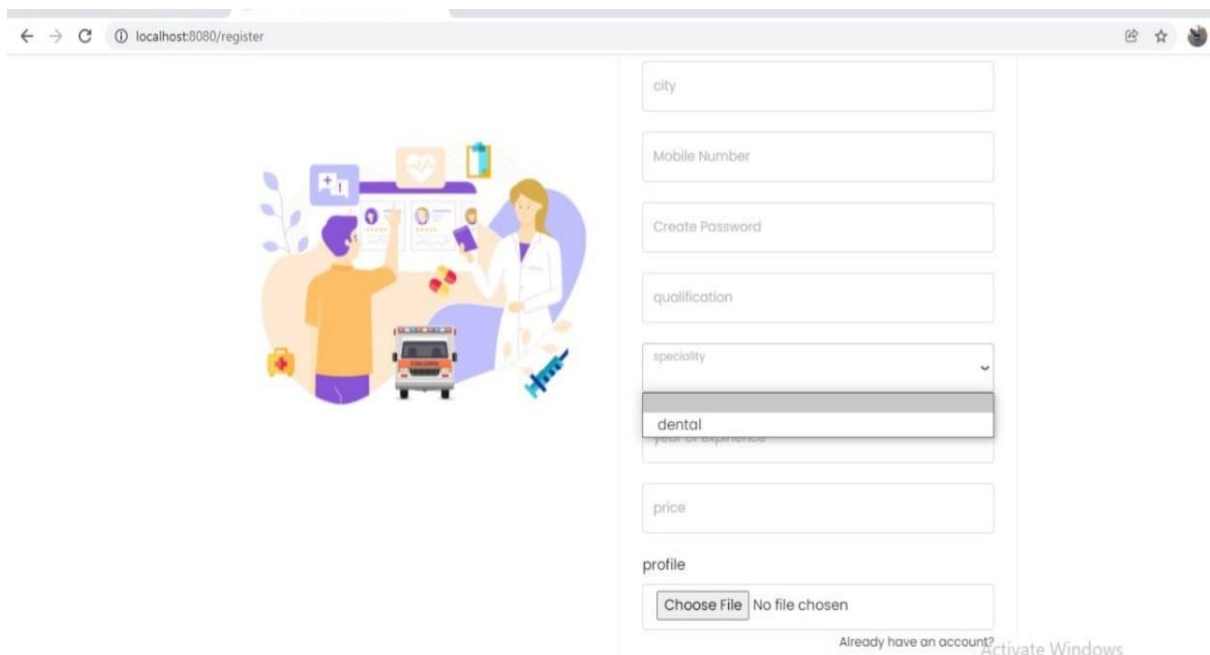
Mobile Number

Create Password

Already have an account? [Activate Windows](#)

Doctor: Speciality selection

This page is used for selecting the speciality of doctor.



localhost:8080/register

city

Mobile Number

Create Password

qualification

speciality
dental

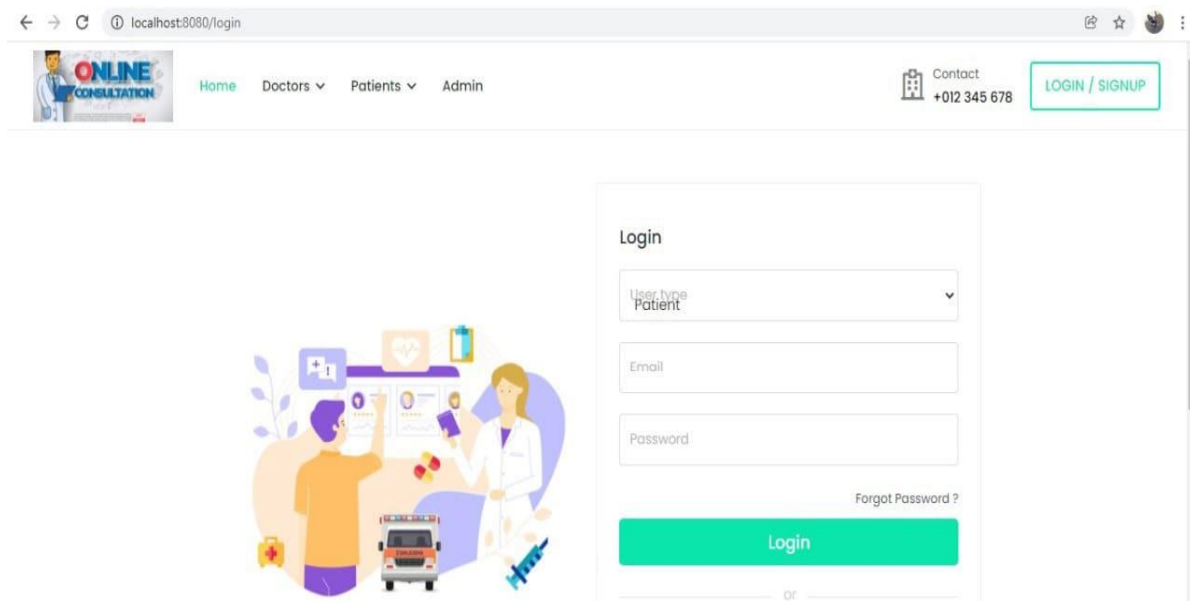
price

profile
Choose File No file chosen

Already have an account? [Activate Windows](#)

Patient Login: -

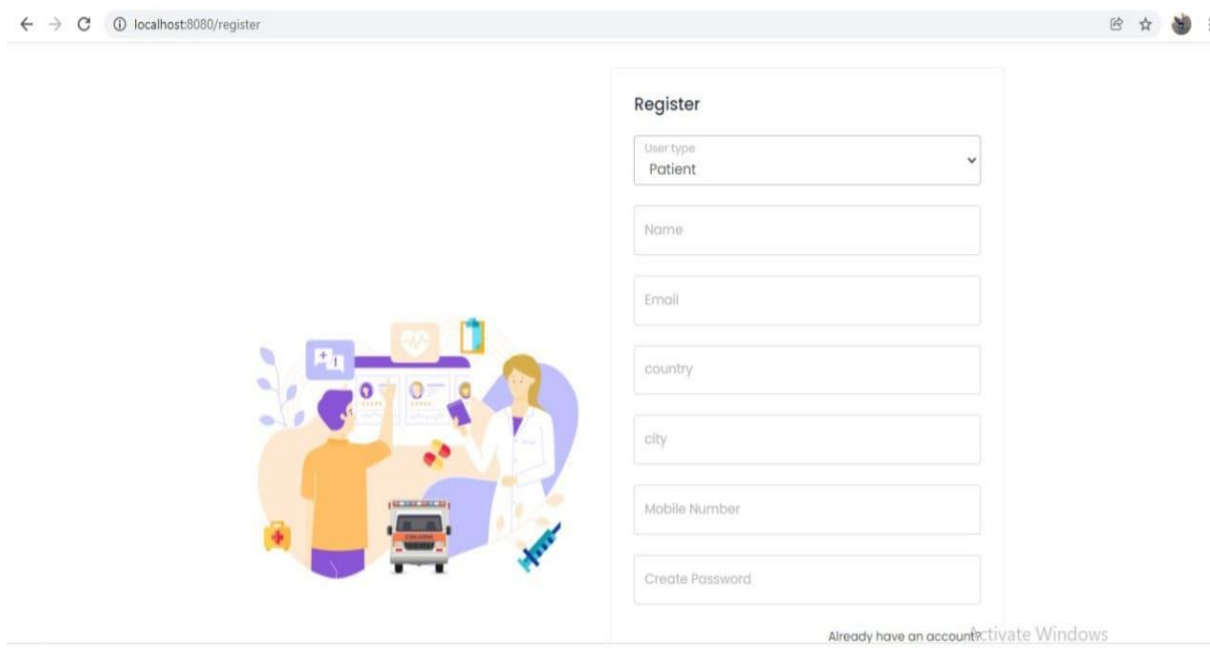
It is used for patient login into the application.



The screenshot shows a web browser at localhost:8080/login. The header includes a logo for 'ONLINE CONSULTATION', navigation links (Home, Doctors, Patients, Admin), contact information (+012 345 678), and a 'LOGIN / SIGNUP' button. The main content area features a colorful illustration of a doctor and a patient on the left. On the right, the 'Login' form includes a 'User type' dropdown menu set to 'Patient', 'Email' and 'Password' input fields, a 'Forgot Password?' link, and a green 'Login' button. Below the button is a separator line with the text 'OR'.

Patient registration: - user type

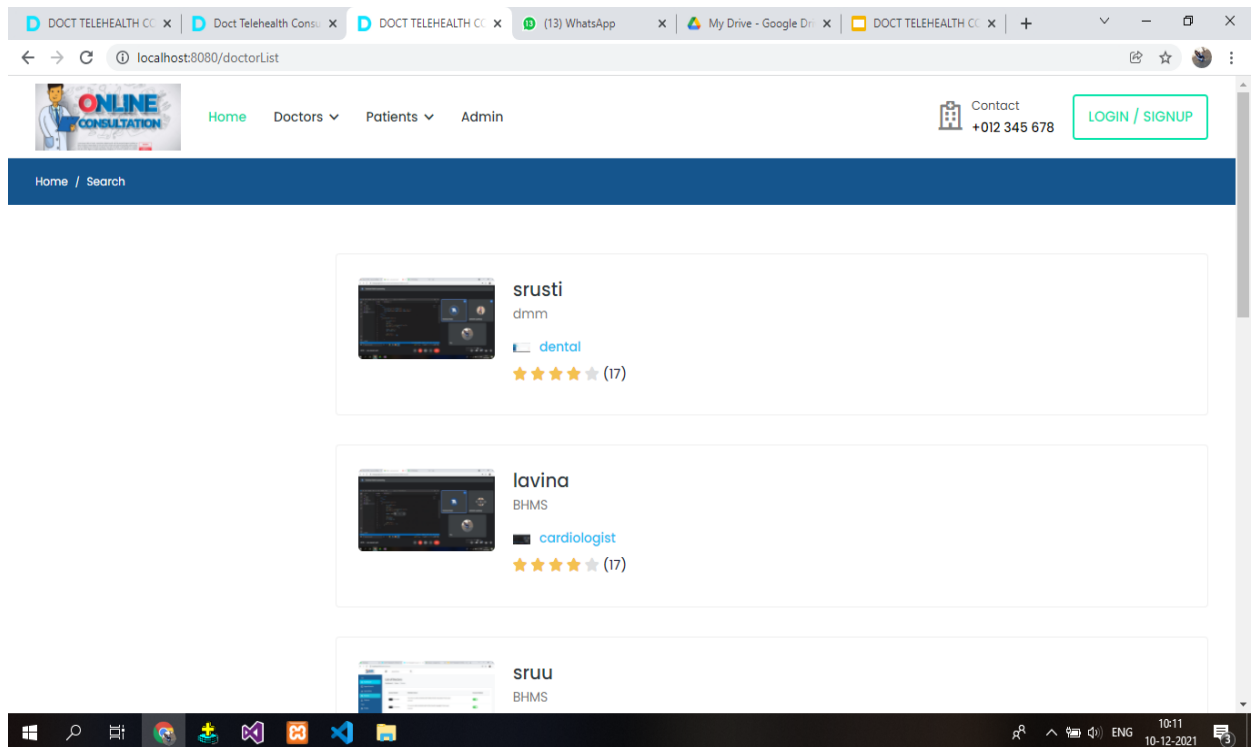
This page is used for selection of user type while registration process.



The screenshot shows a web browser at localhost:8080/register. The header is identical to the login page. The main content area features the same colorful illustration on the left. On the right, the 'Register' form includes a 'User type' dropdown menu set to 'Patient', and input fields for 'Name', 'Email', 'country', 'city', 'Mobile Number', and 'Create Password'. At the bottom right, there is a link that says 'Already have an account?'. A Windows watermark is visible in the bottom right corner of the browser window.

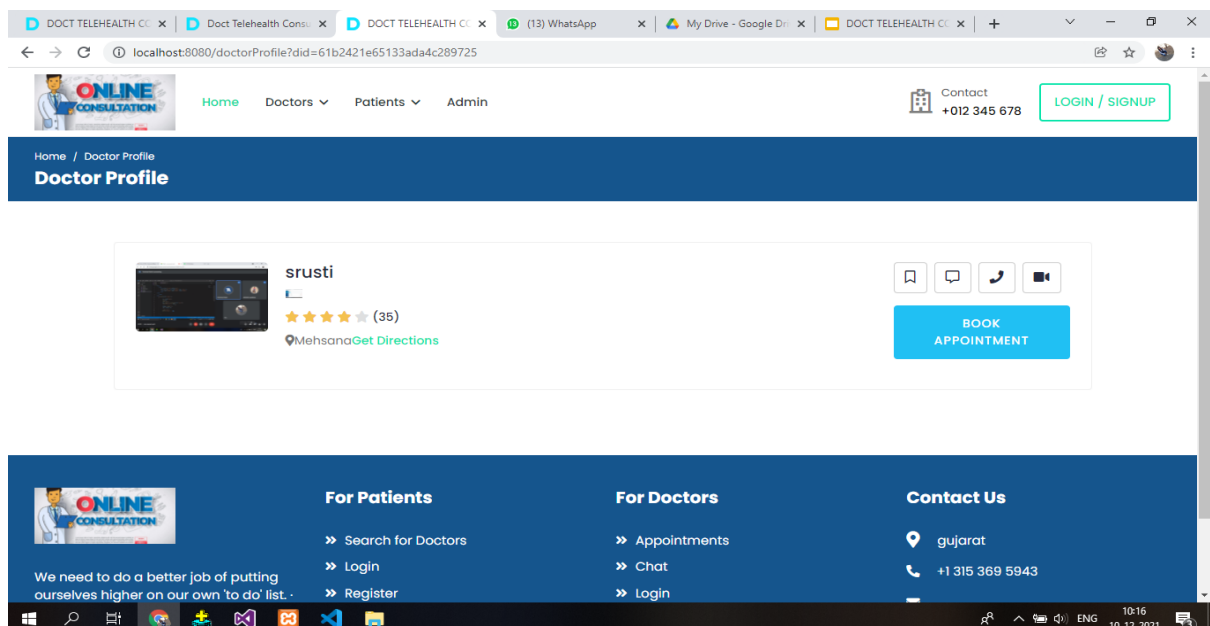
Patient side doctor list: -

This is the list of doctors located under the patient side.



Doctor profile for appointment booking: -

Note: This is the doctor profile from where patient book appointment.



Pick appointment date, time & and fill diseases: -

This page is used for selection of date, time and diseases.

DOCT TELEHEALTH CONSULTATION

Home Doctors Patients Admin

Contact +012 345 678 LOGIN / SIGNUP

Home / Booking

Booking

Dr. srusti
Mehsana ,

Pick Date:
dd-mm-yyyy

Pick Time:
--:--

Disease:

each dicisease have saperater ;

Appointment book: -

This is the appointment book of the patient.

DOCT TELEHEALTH CONSULTATION

Home Doctors Patients Admin

Contact +012 345 678 LOGIN / SIGNUP

localhost:8080/appointmentList

Dashboard / Appointments

Doctor Name	Speciality	Patient Name	Apointment Time	Status	Amount
Dr srusti	Dental	srusti	11:00 Sun Dec 10 2000 16:00:00 GMT-0800 (Pacific Standard Time)	<input checked="" type="checkbox"/> checkbox	Rs.500

Appointments

Dashboard / Appointments

Doctor Name	Speciality	Patient Name	Apointment Time	Status	Amount
Dr srusti	Dental	srusti	11:00 Sun Dec 10 2000 16:00:00 GMT-0800 (Pacific Standard Time)	<input checked="" type="checkbox"/> checkbox	Rs.500

11. FUTURE ENHANCEMENT

- Video call and Voice call facilities.
- Patient can chat with the doctor

12. Bibliography

Web References:

- www.tutorialspoint.com
- www.google.com
- <https://stackoverflow.com>
- <https://getbootstrap.com>