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

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Submitted to

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Ganpat University
॥ विद्यया समाजोत्कर्षः ॥

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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2.	Lavina Agrawal	19082221023
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 REQUIRMENT

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

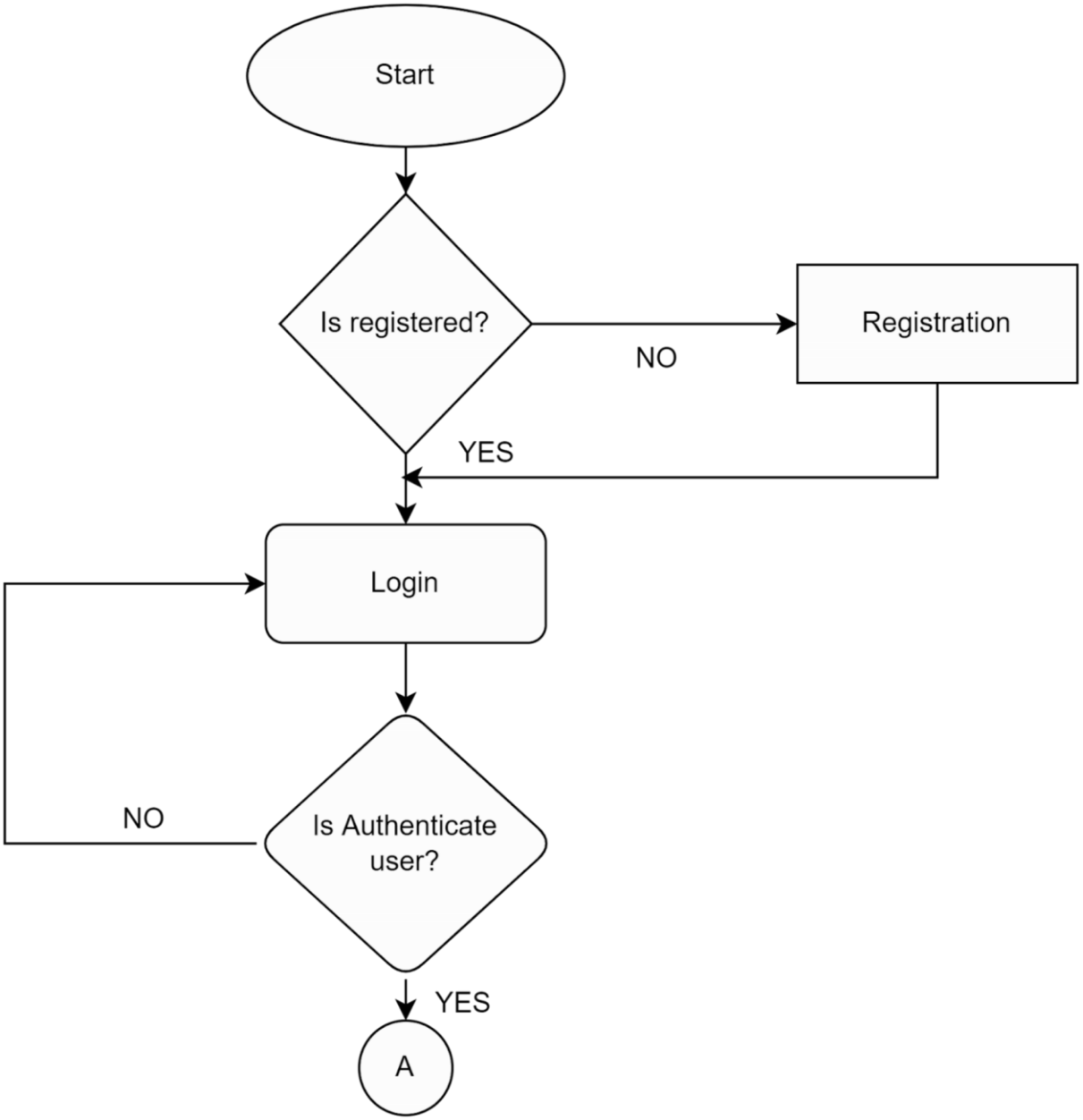
4.0 SYSTEM REQUIREMENTS

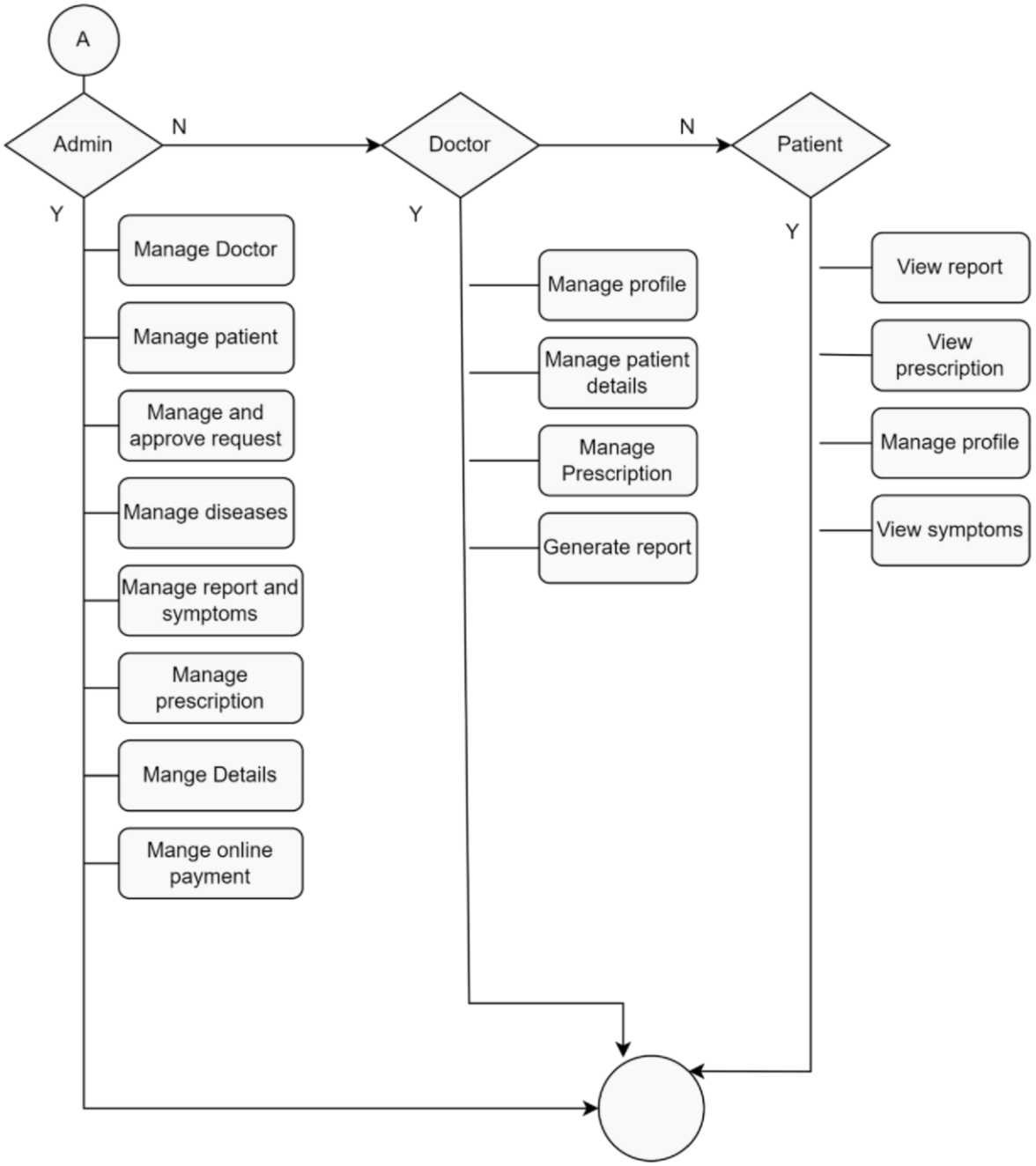
4.2 HARDWARE REQUIRMENT

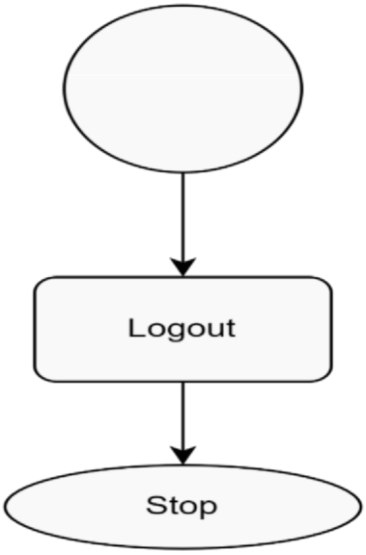
Server Side	
Processer	2.0 GHZ
RAM	2 GB
Free Hard disk space	500 MB Free space

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

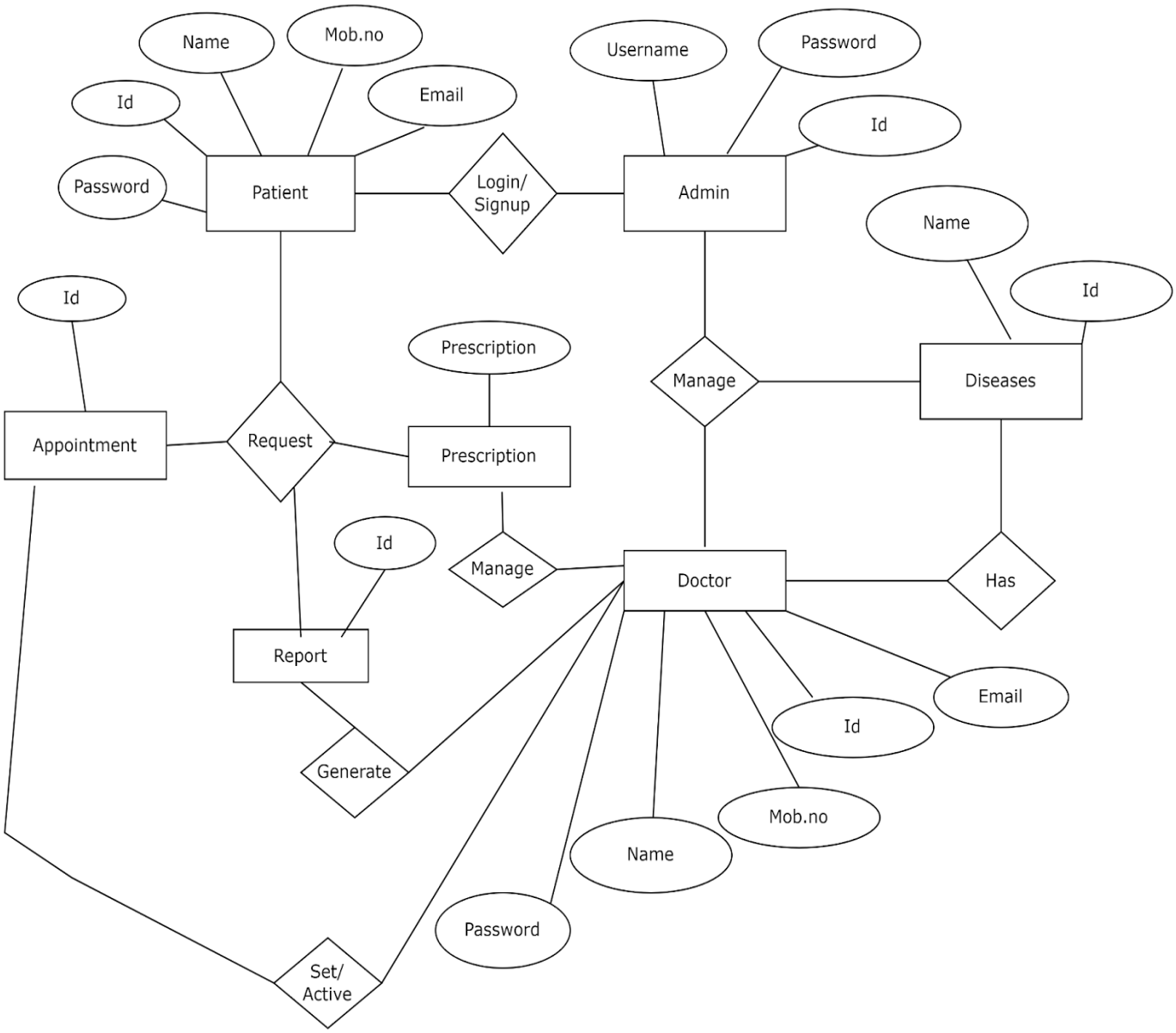
5.0 SYSTEM FLOWCHART




A
Admin
N
Doctor
N
Patient
Y
Y
Y
Manage Doctor
Manage patient
Manage and approve request
Manage diseases
Manage report and symptoms
Manage prescription
Mange Details
Mange online payment
Manage profile
Manage patient details
Manage Prescription
Generate report
View report
View prescription
Manage profile
View symptoms

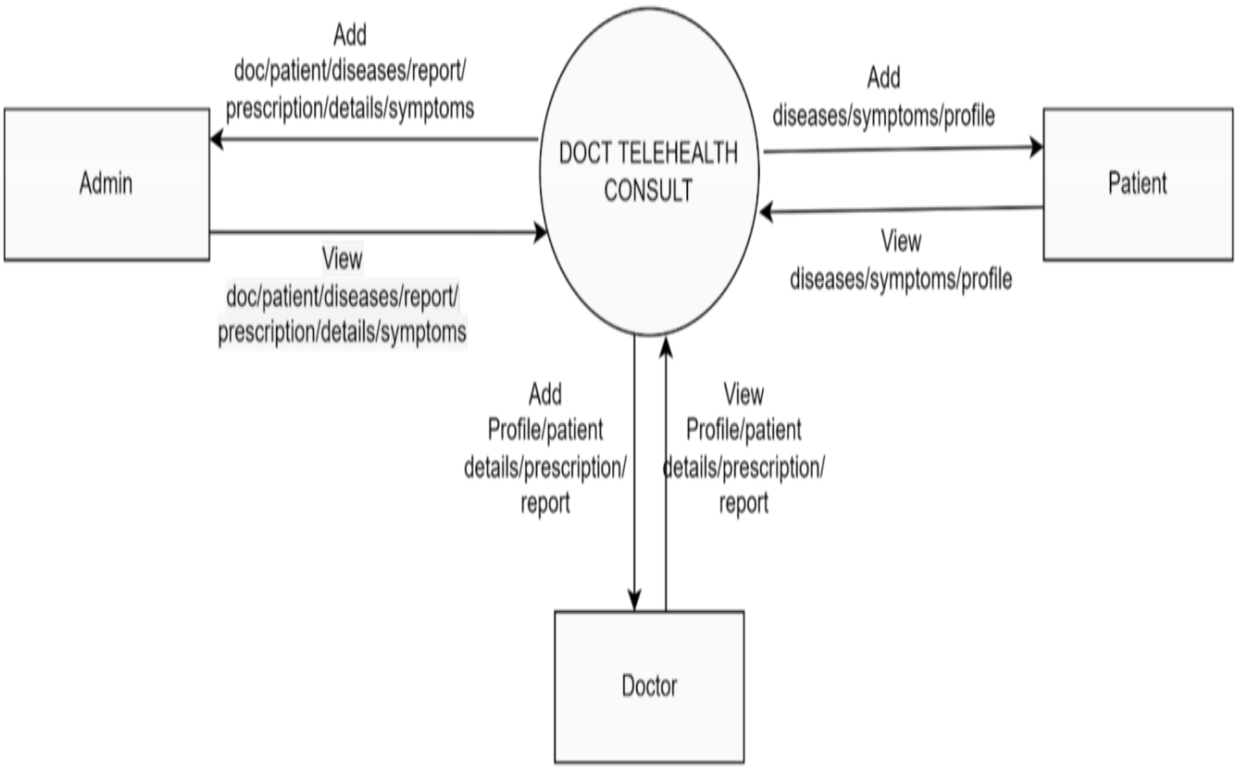

Logout
Stop

6.0 ENTITY RELATIONSHIP

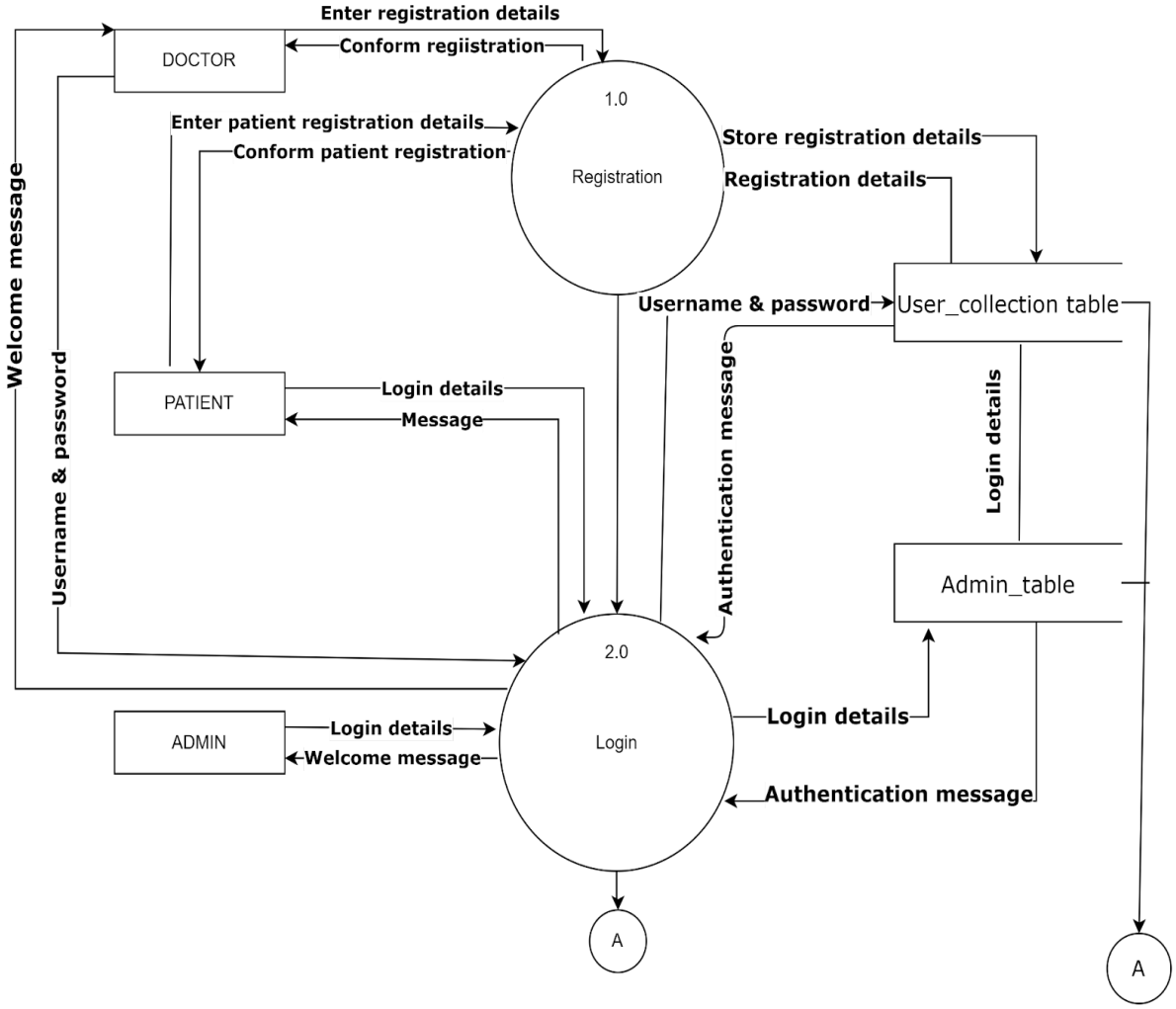


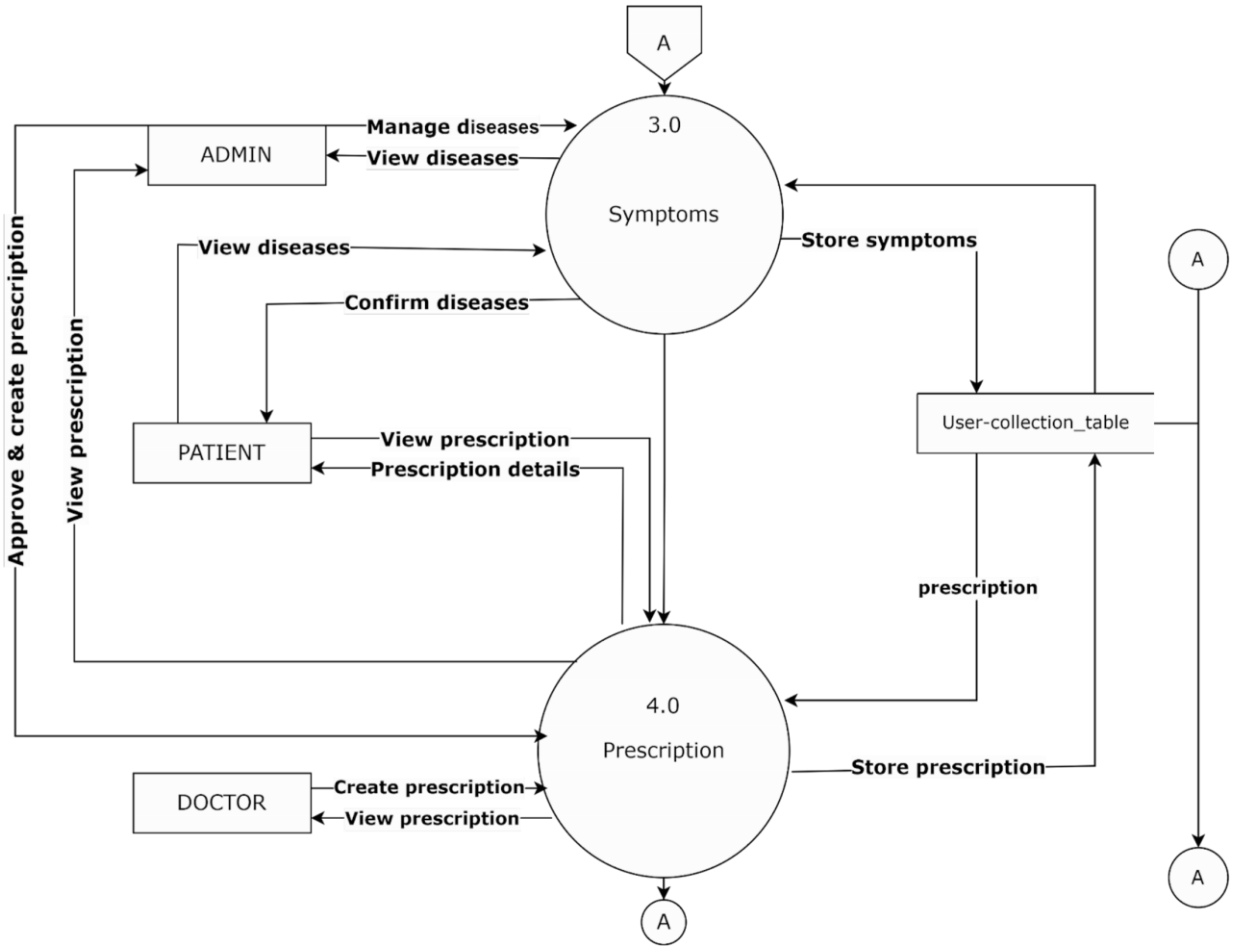
7.0 DATAFLOW DIAGRAM

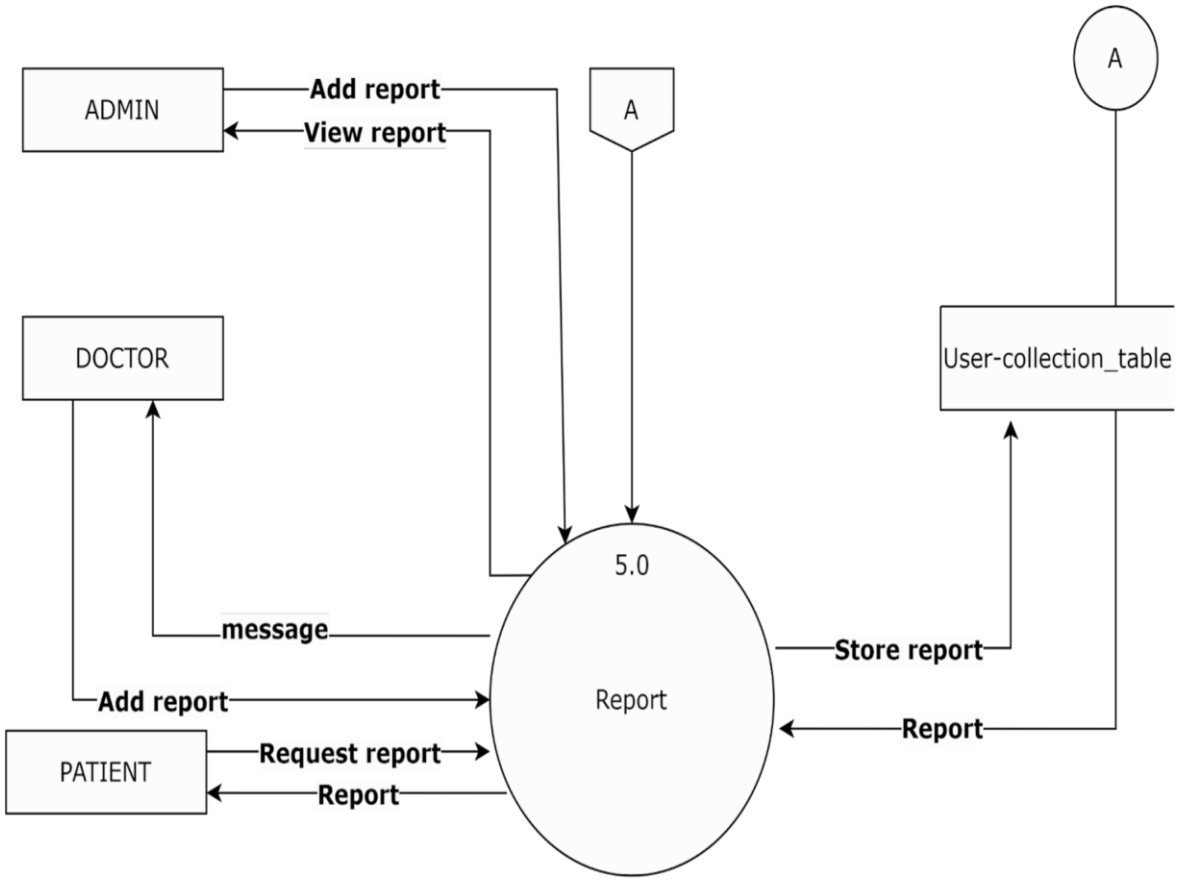
Context level:



First Level DFD:




A
3.0
Symptoms
ADMIN
Manage diseases
View diseases
View diseases
Confirm diseases
Store symptoms
Approve & create prescription
View prescription
PATIENT
View prescription
Prescription details
User-collection_table
A
prescription
4.0
Prescription
Store prescription
DOCTOR
Create prescription
View prescription
A
A


A
ADMIN
Add report
View report
A
DOCTOR
User-collection_table
5.0
message
Store report
Add report
Report
Report
PATIENT
Request report
Report

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$10$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

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

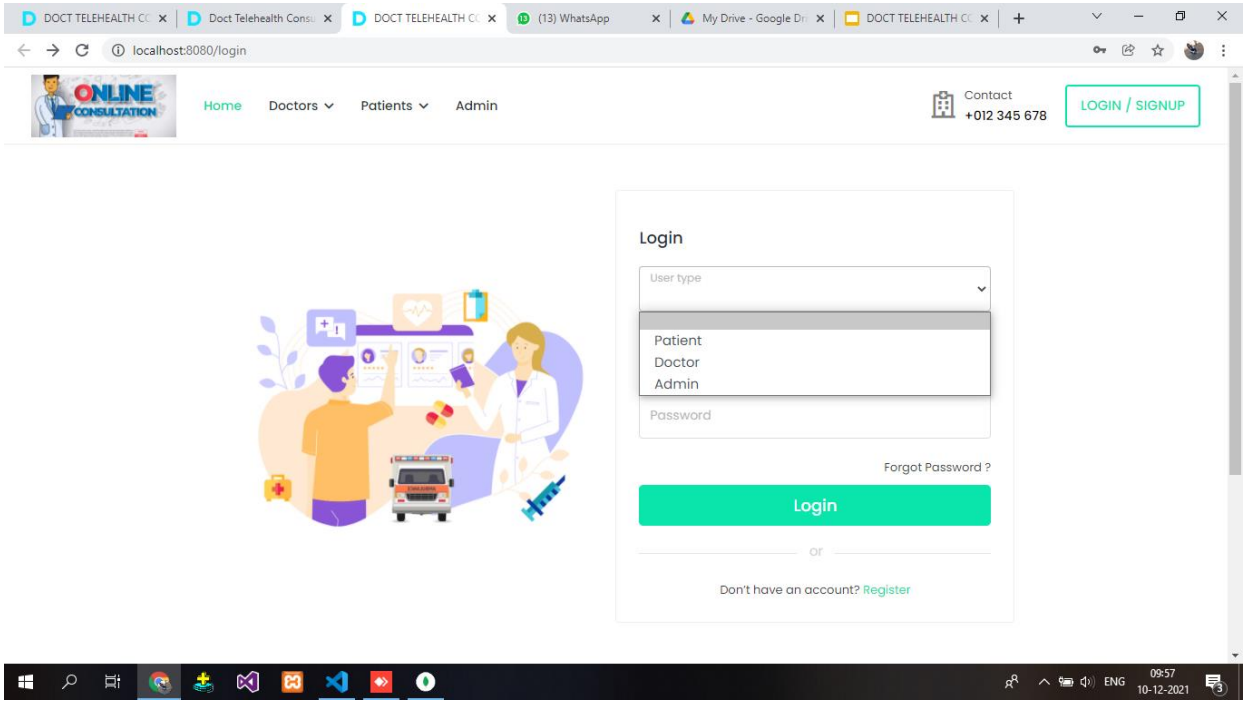
Sr. NO	**Test Case ID**	Test Case name	Test Case Desc	Step	Expected result	Actual result	Status
1	**Login Admin**	Validate login	Verify that Login name On login page	Enter name and password And click on submit button	Login successful or an error message invalid login or password must be displayed	Login successful	pass
2	**Login Doctor/Patient**	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 successful	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 “password 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

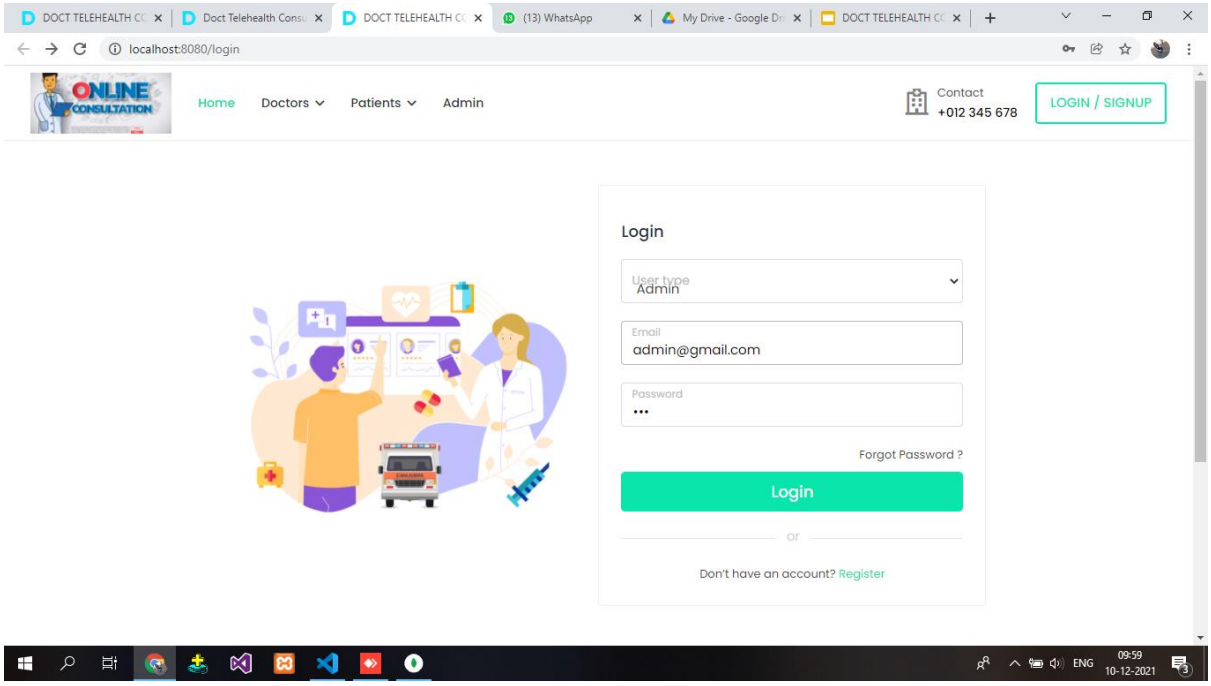
Login page: -

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



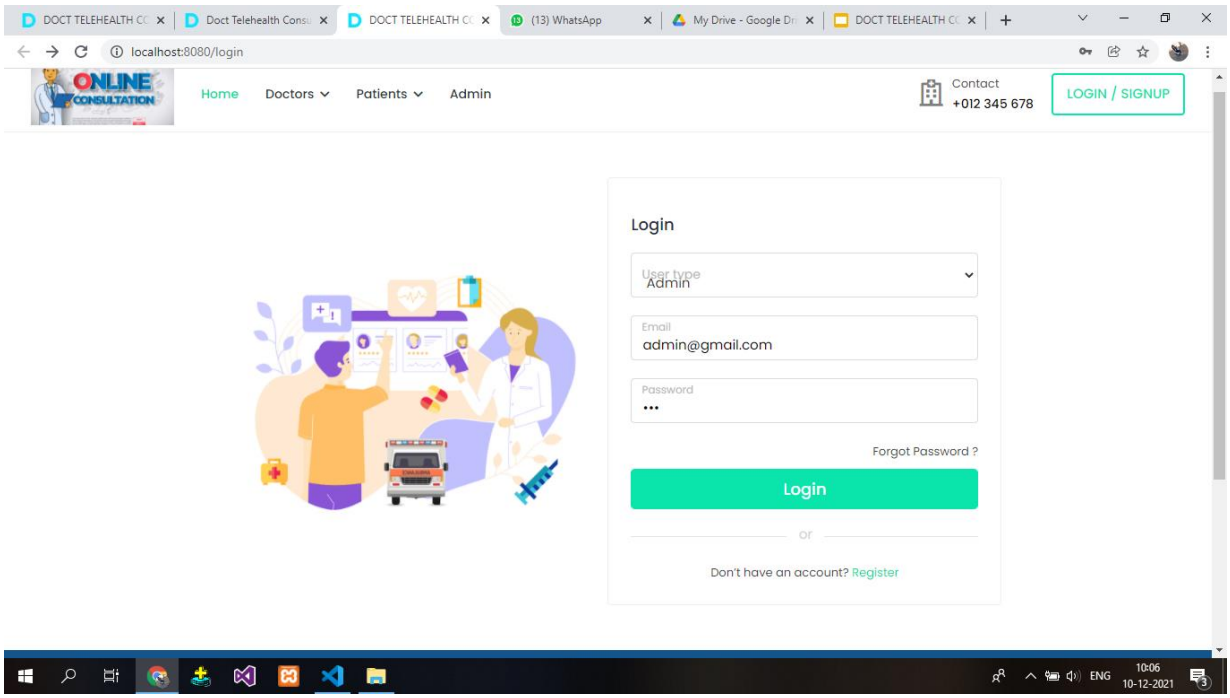
Admin Authentication: -

It is the admin authentication page.



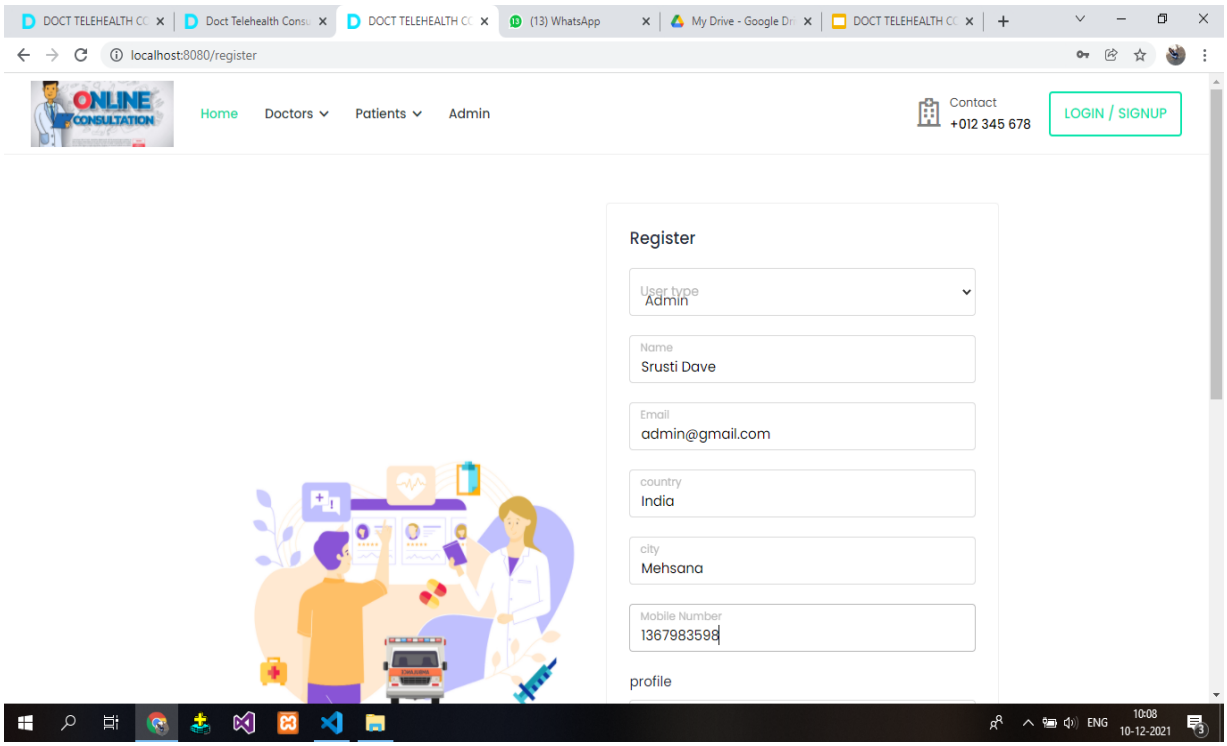
Admin login: -

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



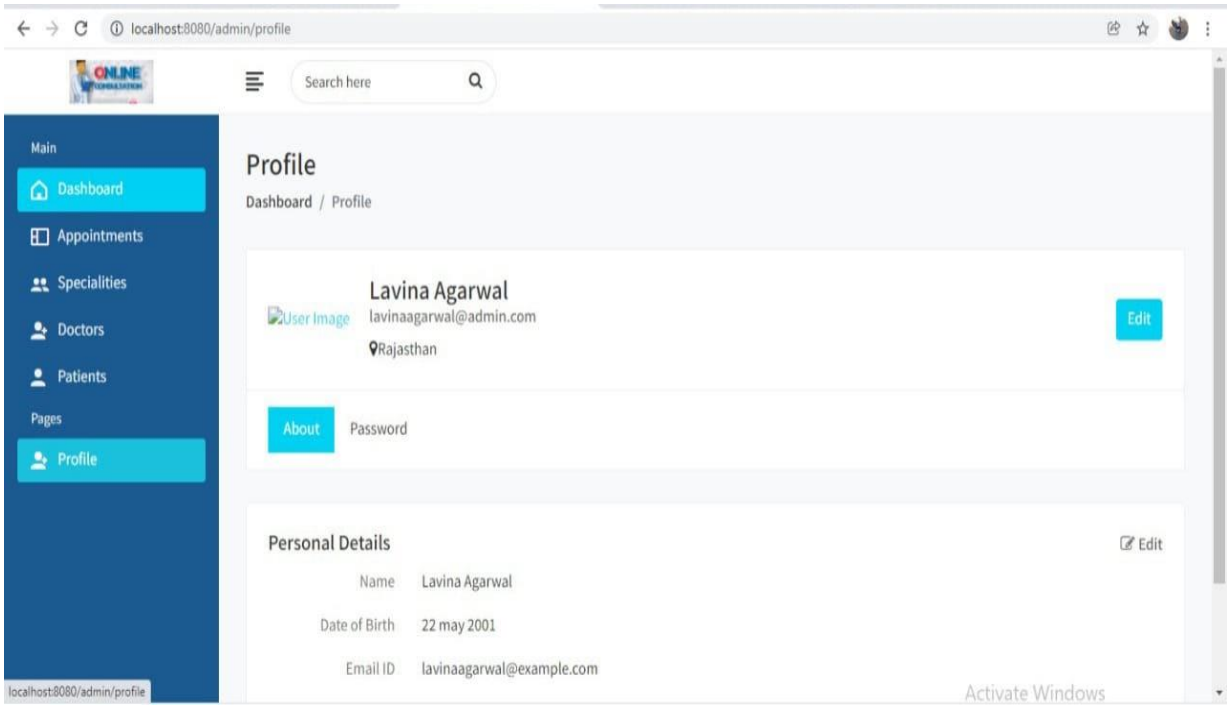
Admin registration: -

In this page admin enter all the relevant details.



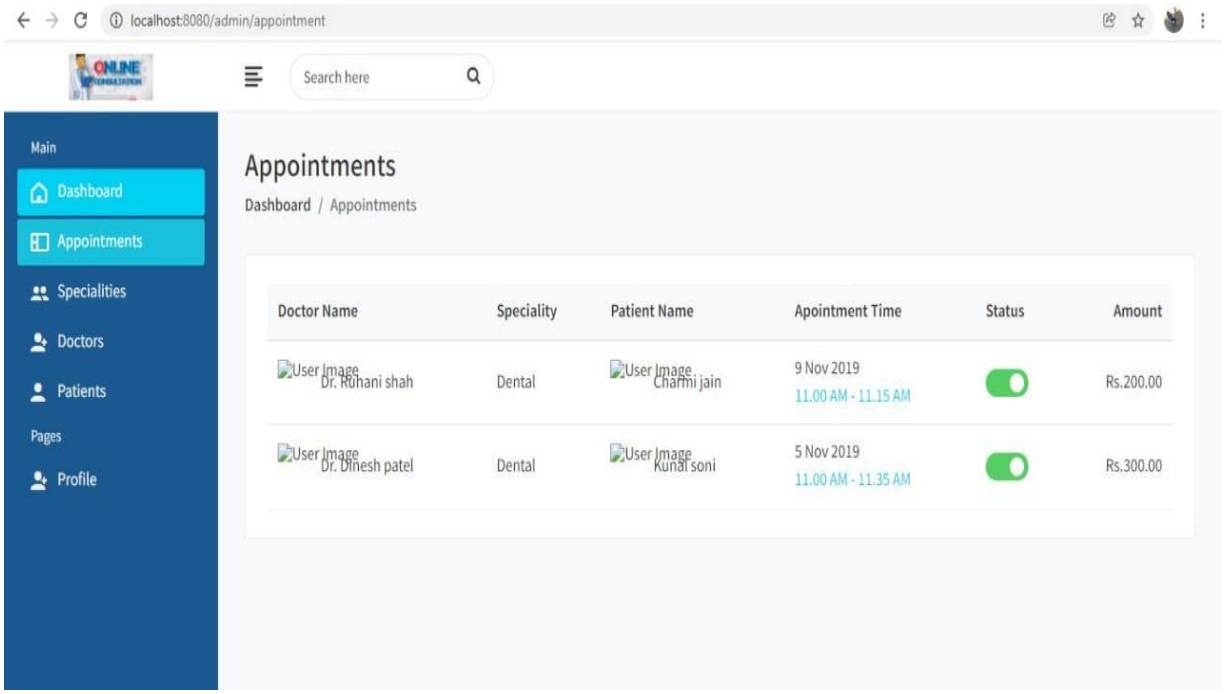
Admin profile: - Dashboard

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



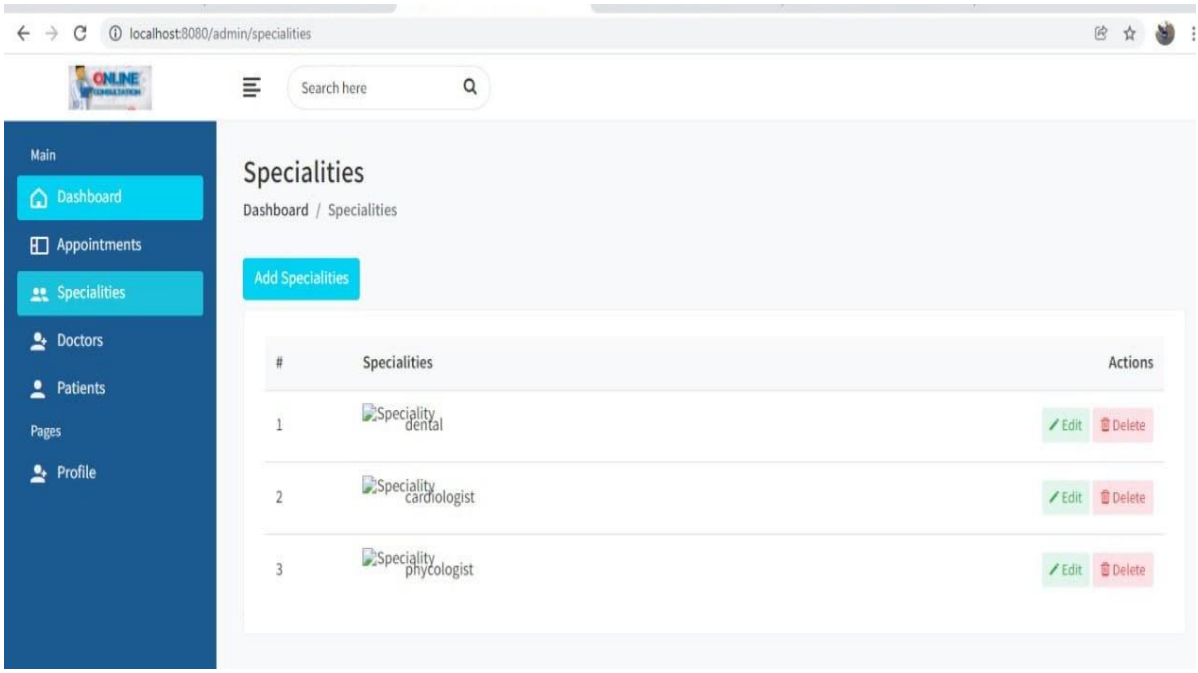
Appointment: Appointment list

It is used for viewing the total appointments.



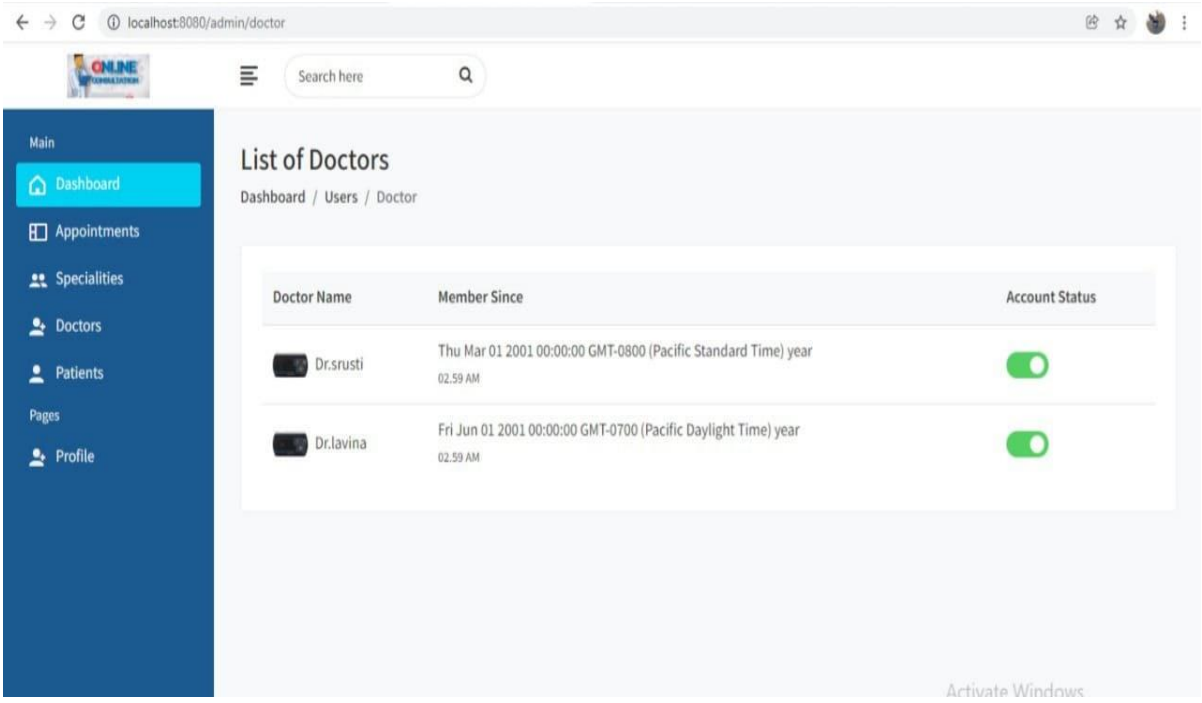
Specialities Screen: -

It is used for viewing the total appointments.



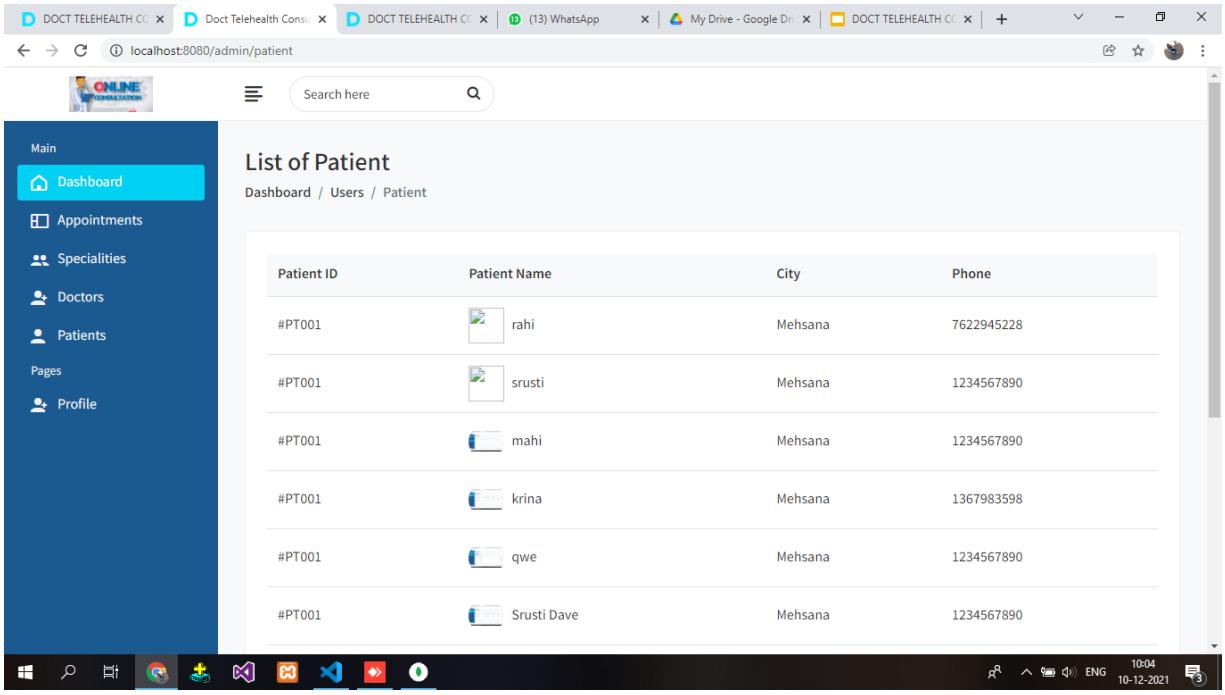
Doctor: List of Doctors

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



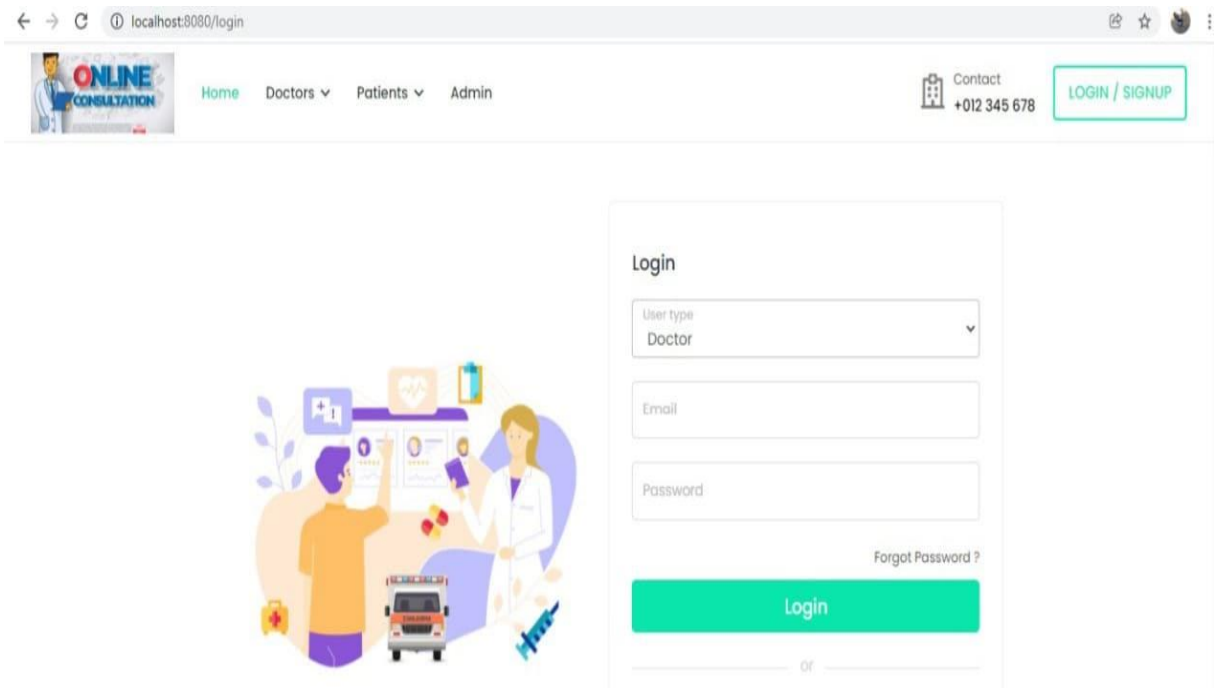
Patient: List of patient

This page is consisting of all the registered patients list.



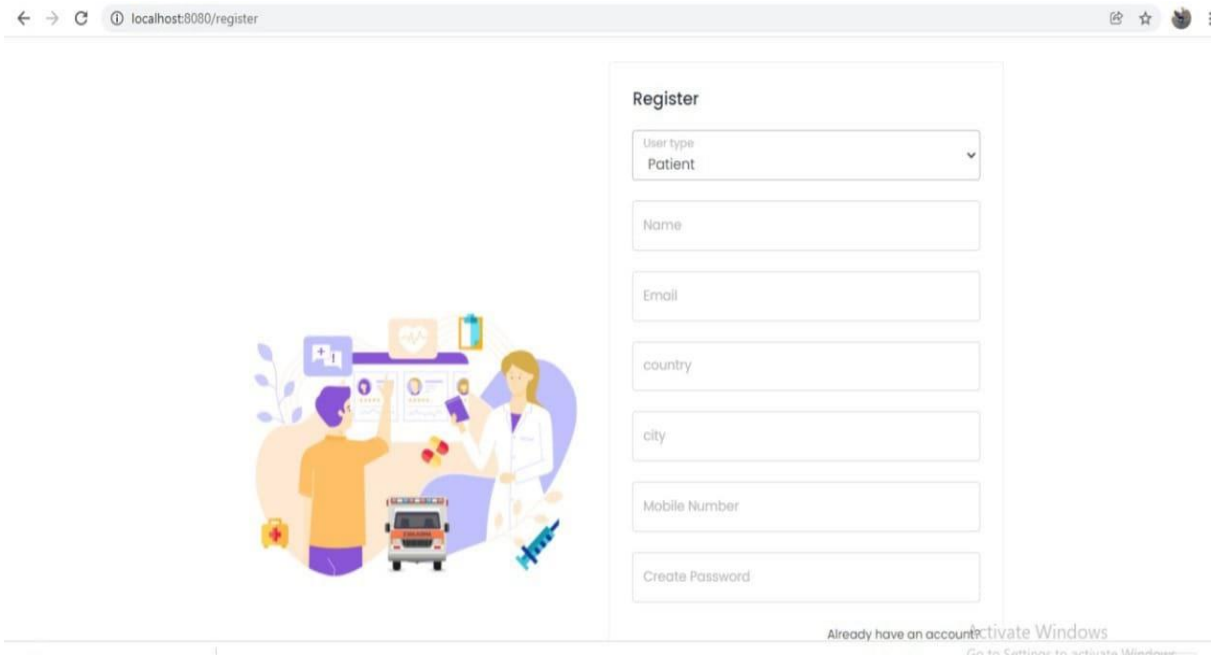
Doctor Login: -

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



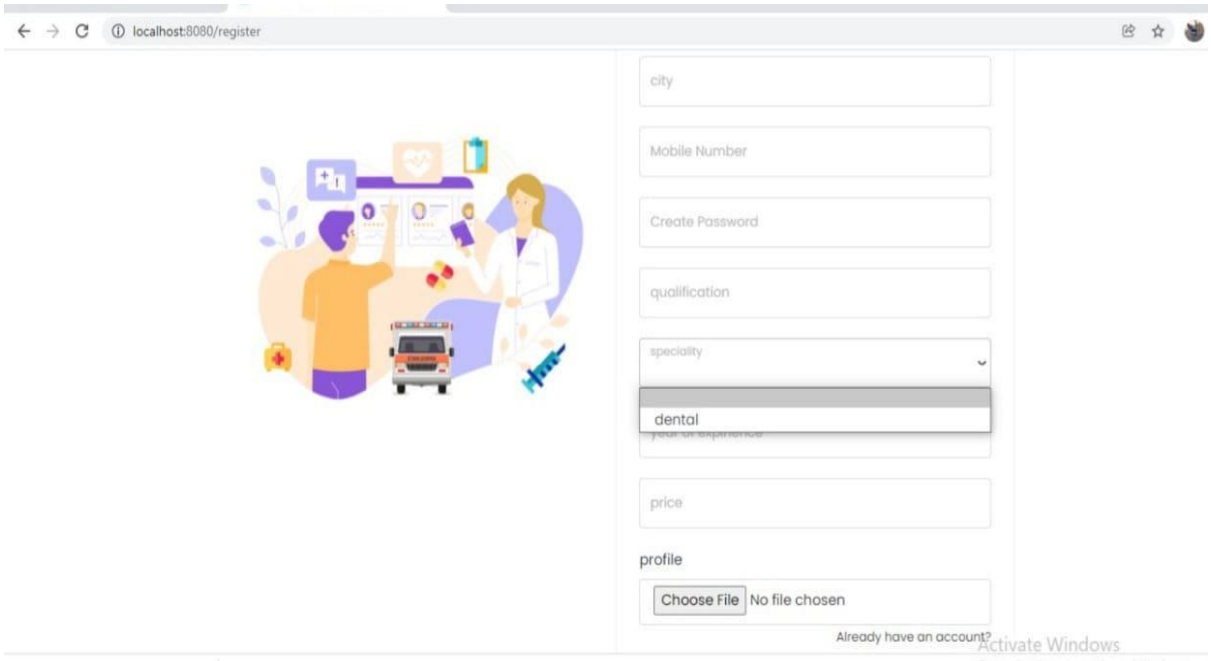
Doctor registration: - user type

This page is used for selecting the user type.



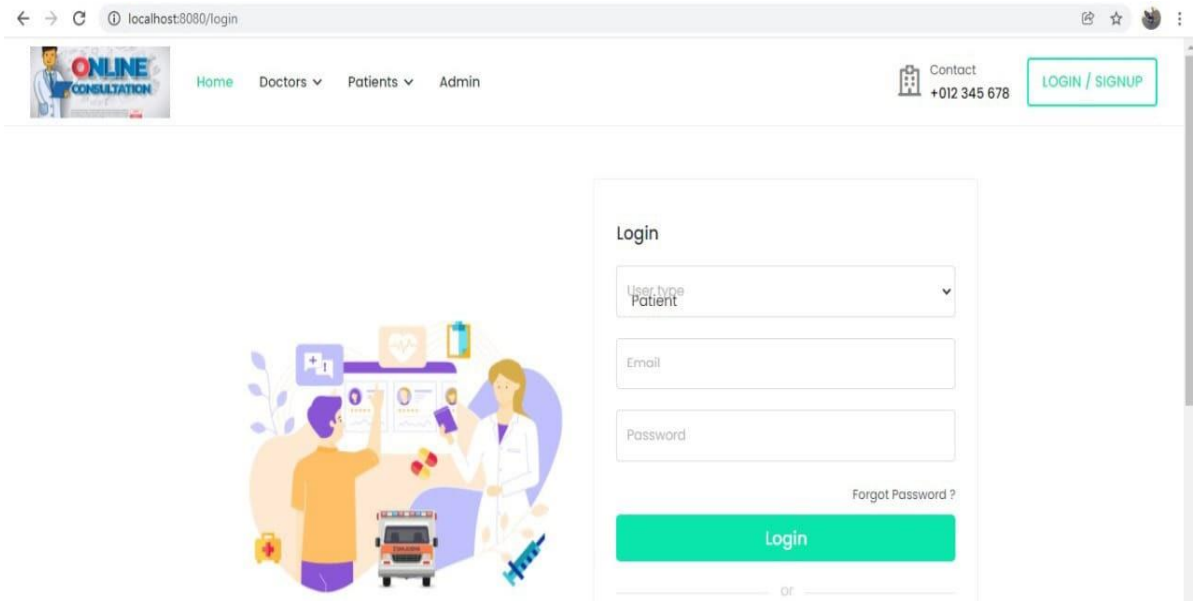
Doctor: Speciality selection

This page is used for selecting the speciality of doctor.



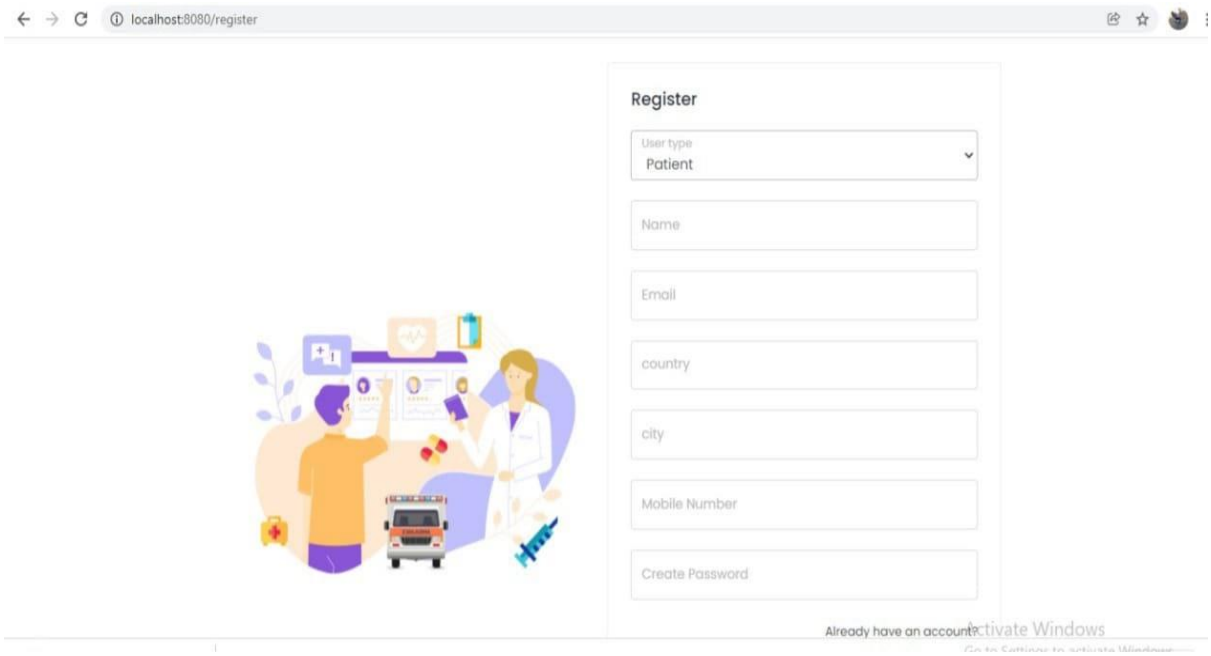
Patient Login: -

It is used for patient login into the application.



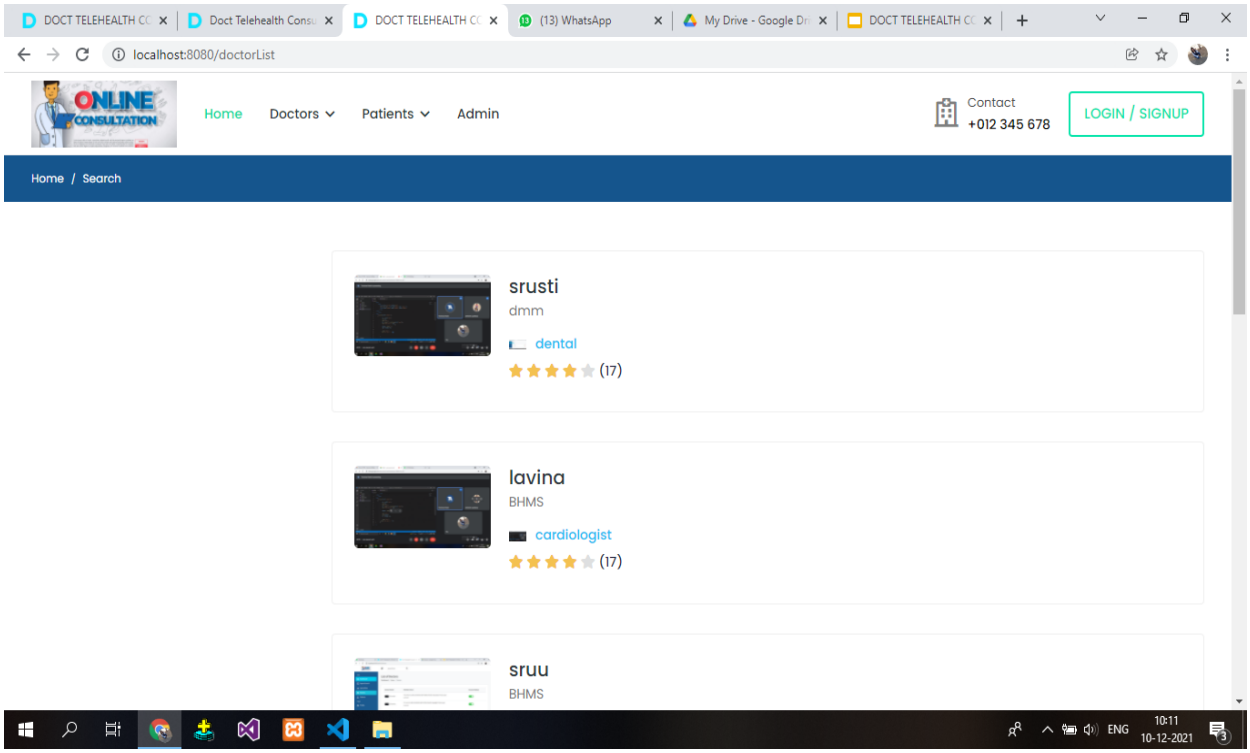
Patient registration: - user type

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



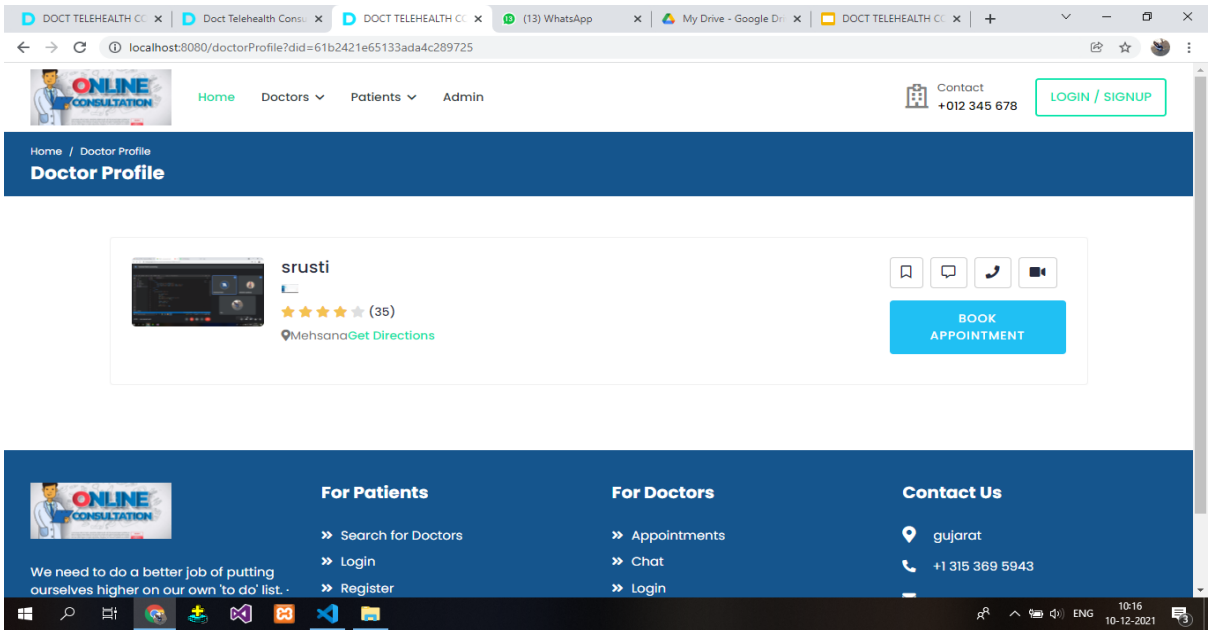
Patient side doctor list: -

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



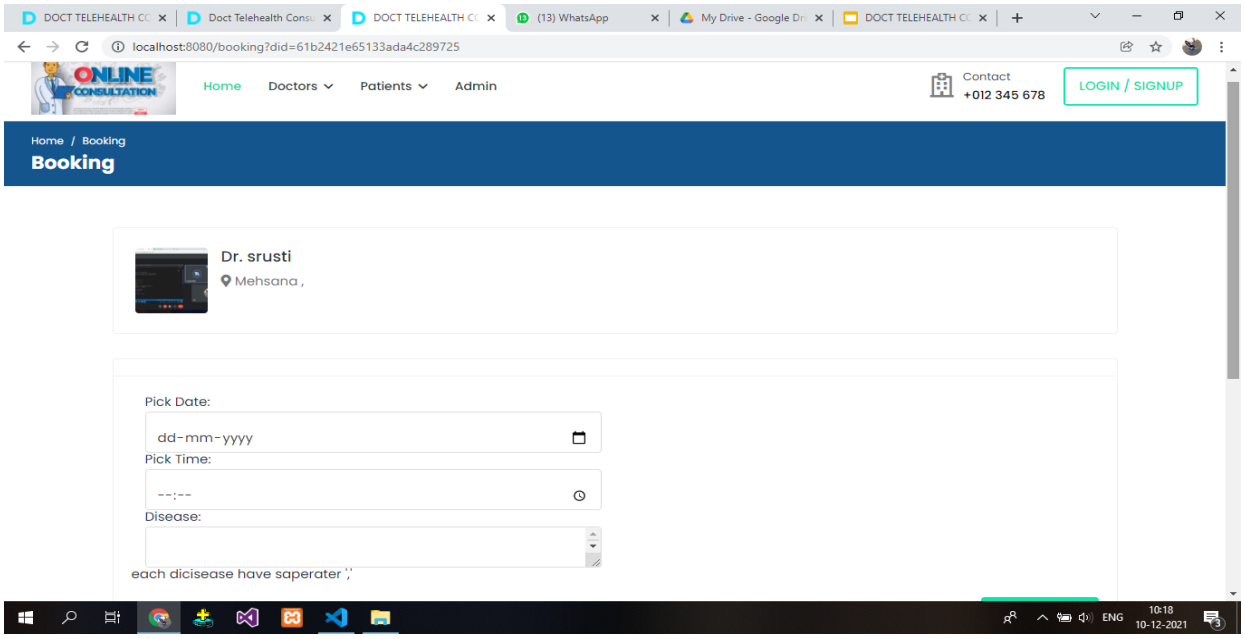
Doctor profile for appointment booking: -

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



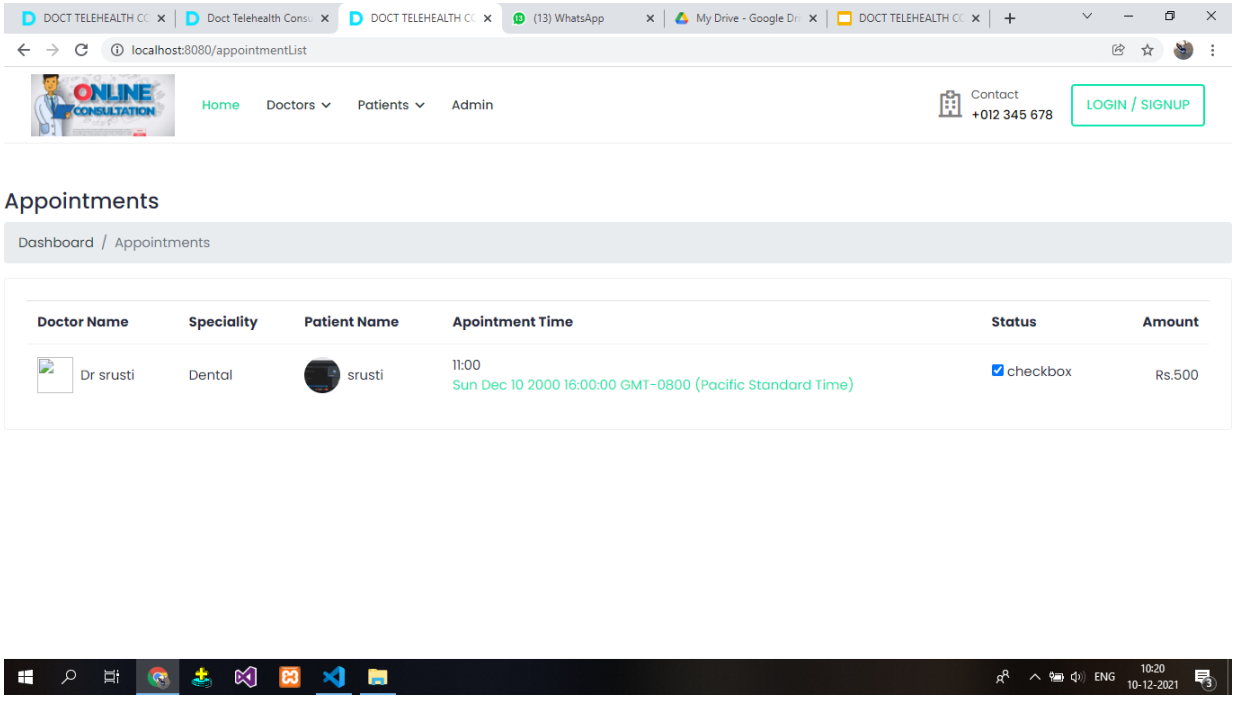
Pick appointment date, time & and fill diseases: -

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



Appointment book: -

This is the appointment book of the patient.



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