A Project Report on

Doctor Appointment Booking System

Submitted

In Partial Fulfillment of the Requirements

For the Degree Of

Bachelor of Science

[Computer Applications & Information Technology]-VI

Submitted to

Department of Computer Science,

HEMCHANDRACHARYA

NORTH GUJRAT UNIVERSITY

Submitted By:

Basan Nofal[147]

Aghariya Arman[36]

Sunasara Sajjad[177]

Project Guide:

Hinal Prajapati

Tushar Parikh

ACKNOWLEGGEMENT

With immense pleasure, we present this report on the project assignment titled "Health-Center".

We are lifelong indebted towards **B.M.Patel** Director of DCS H.N.G. University, Patan for Providing us environment that is best suited for outgrowth of the student's personality and bring up there moral and constant encourage and guidance helped us in completing this project

We are also lifelong indebted to the professor **Mrs. Hinal Prajapati** for provide us with inspiration, knowledge and all kinds of support throughout 6th semester of M.Sc. (CA & IT) studies. We from the fathoms of our heart, thank all the members of DCS H.N.G. University for their invaluable technical and moral support.

The encouragement and help received from our parents, family members, friends and colleagues cannot be. expressed in terms of words. Without this moral support, the work would have been lift unfinished

Sr. No	Table of Content	Page No.
1.	**Introduction** 1.1 Project Profile 1.2 Project Definition	 1 2 3
2.	**System Analysis** 2.1 Hardware &Software Configuration 2.2 Requirement Analysis 2.3 Existing System 2.4 Need for new system 2.5 System Modules	 4 3 6 7 8
3.	**System Design** 3.1 DFD Diagram 3.2 Data Dictionary 3.3 ER-Diagram	 10 11 15 20
4.	**Interface Design** 4.1 Screenshots 4.1.1 User Module 4.1.2 Doctor Module 4.1.3 Admin Module	 21
5.	**Conclusion & Future work**	38
6.	**References & Bibliography**	39

1. INTRODUCTION

1.1 Project Profile

PROJECT TITLE	Health-Center
DEVELOPED BY	Basan Nofal Aghariya Arman Sunasara Sajjad
FRONT END TOOLS	HTML ,CSS ,JavaScript , Bootstrap 4, Eclipse IDE
BACK END TOOLS	JSP, Servlet
Database END TOOLS	MySQL
DOCUMENTATION TOOL	Microsoft Word, Microsoft PowerPoint, Canva
PROJECT DURATION	50 Days
TEAM MEMBER	3(Three)
SUBMITTED TO	DCS, HNG Univercity, Patan
INTERNAL GUIDE	Mrs. Hinal Prajapati Mr.Tushar Parikh

1.2 Project Definition

An online doctor appointment booking system. The main goal of this project was to create a easy appointment booking system for patients so that they can book an appointment from anywhere whichallows patients to search for doctors and book an appointment online Moreover, the project is also designed in such a way it lets receptionist manage the appointments, feedbacks, users as well as doctors information.

In today's busy world it becomes very tough to book an appointment by being physically present at the hospital. Using our website anyone can book appointment by sitting in a room with the help of Internet.

The application is implemented in JAVA and consists of three main components:

- Admin Side
- Patient Side
- Doctor side

Admin side consists of the features such as Creating Username & Password, Add and Remove Doctors, Add and Remove patient, and Logout.

Patient side consists of the features such as Registration Login, Search Doctor, Book an Appointment, Give Feedback,Update Profile, And Logout.

Doctor side consists of the features such as Registration,Login, View Appointment, Confirm Appointment, FeedbackUpdate Profile, And logout

2. SYSTEM ANALYSIS

2.1 Hardware & Software Configuration

The hardware requirements are:

- Processor: Pentium IV Processor
- Hard Disk: 80 GB HDD
- Ram: 512 MB and above

The Software specification are:

- Operating System: Window 7 and above
- HTML, CSS, Bootstrap,JavaScript (Front End)
- MYSQL (Back end)
- JSP,Servlet (Server-side programming)
- Wamp Server

2.2 Requirement Analysis

The first step in developing the system is analysing the problem. Before developing a system, the problem should be well defined Identifying the need for a new information system and launching an investigation and a feasible study must be done to check whether the software is visible for the organization. This unit we have done this study.

Lack of security is another problem of the existing system. That may lead to serious problems. It will affect the business career. In the existing system, there is no facility for the user to see the data. The existing system is not reliable because of human errors.

Because of the above reasons the existing system need to be change, for the easy and smooth running of the system.

2.3 Existing System

In this section we shall discuss the limitation and drawback of the existing system thatforced us to take up this project. Really that work was very typical to manage the dailyerrors free records and adding or removing any node from server.This problem produces a need to change the existing system.Some of these shortcomings are being discussed below:

- The existing system of doctor appointment is to manage the relationshipwith User members by storing the user data in registers.The existing system has following drawbacks:
- Manual working system is there,so many problems occurred like
- Error during entry process.Lots of the time consumed for each report generation.
- Wrong request can be done so fake transaction may be possible.
- They don't have centralized database to maintain information.
- Retrieving of records is difficult.
- Complexity in working process, thus time consuming.
- Maintenance of patient record is very difficult.
- Reports are not viewed by the users in proper and systematic way.
- Costly.

2.4 Need for new system

The proposed system ofDoctor Appointment can also be known as Nongovernmental Organization website, because we will use the new technology formanaging the relationship with user's, like as web technology.

We proposed complete website solution for the application to create "User Relationship Management"website.Theiterative,time bound approach adopted by theorganization to address the client requirements that are as follows:

- Fully Automated System is used.
- Centralized database with no redundancy i.e. proper normalization.
- Common platform for patients and doctors.
- Both parties will be benefited.
- Any time anywhere facility.
- User friendliness.
- Secured.

2.5 System Modules

MODULE DESIGN

There are main three module

1. Admin
2. Patient
3. Doctor

1) Admin:

- Doctor Management
- Patient Management
- Validate Doctor
- View all appointments
- View Feedback
- Generate Report

2) Patient:

- Registration
- Login
- Search Doctor
- Give Feedback
- Book an Appointment
- Manage Profile

3) Doctor:

- Registration
- Login
- View Schedule
- Appointment Manage
- Manage Profile
- Patient Report
- View Feedback

Economic Feasibility

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

- All hardware and software cost has to be borne by the organization.
- Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

Technical Feasibility

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

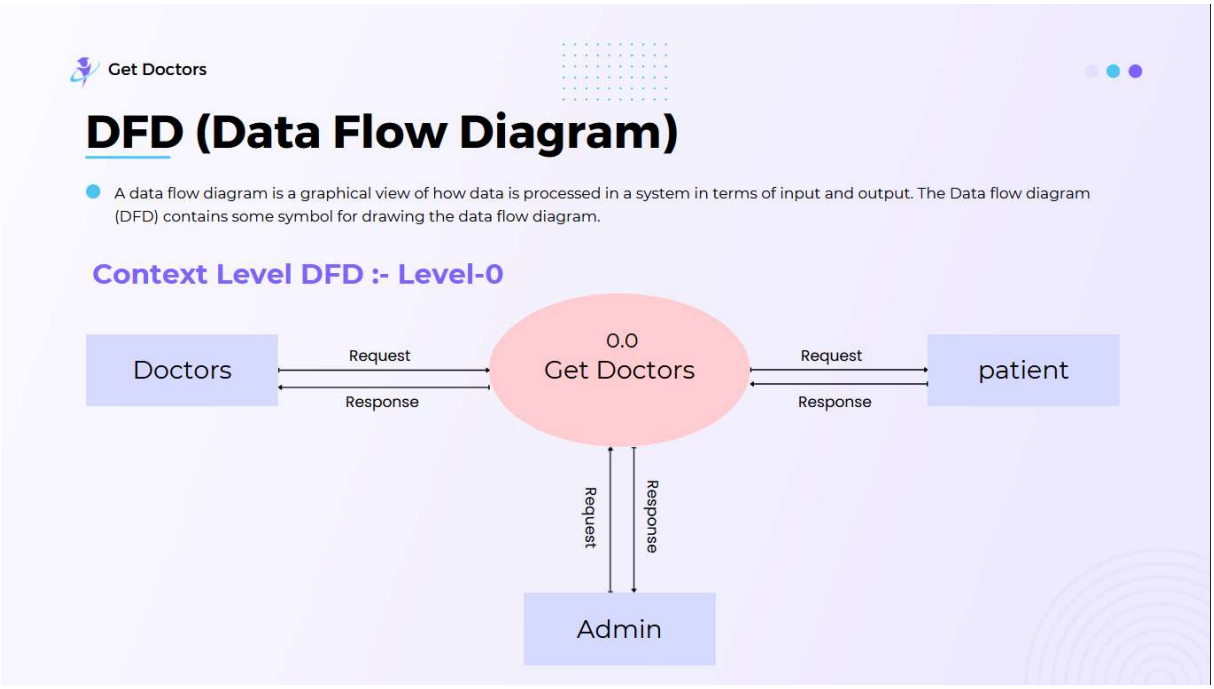
Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

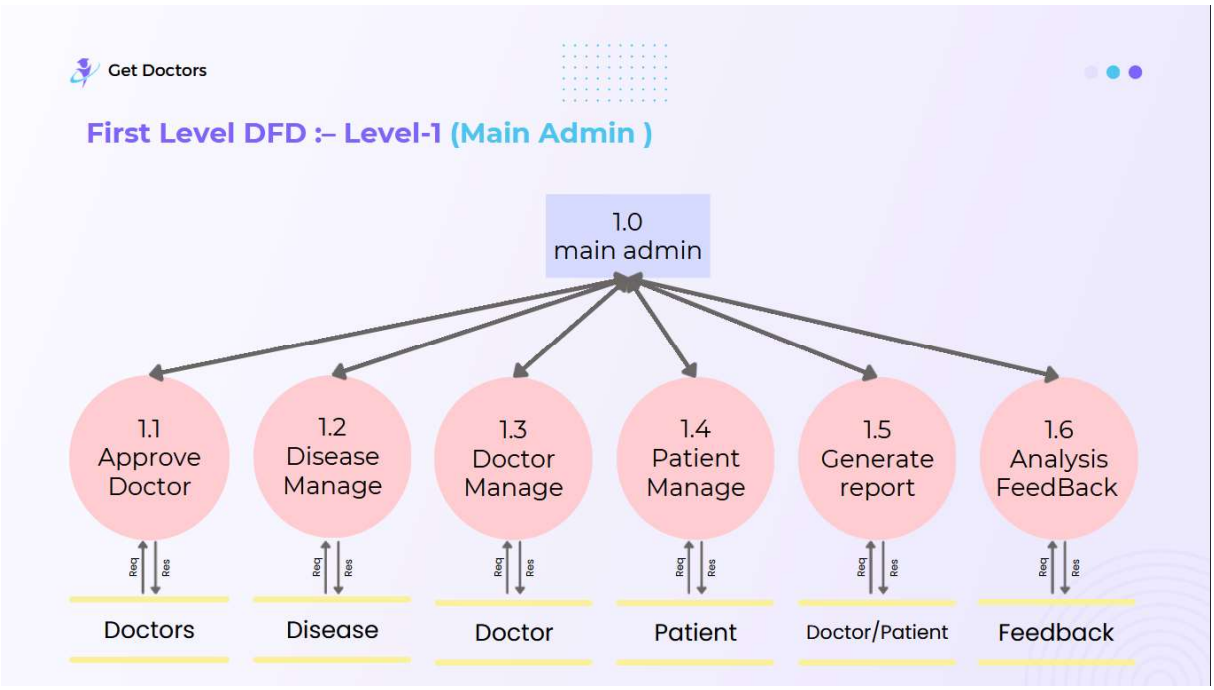
3. SYSTEM DESIGN

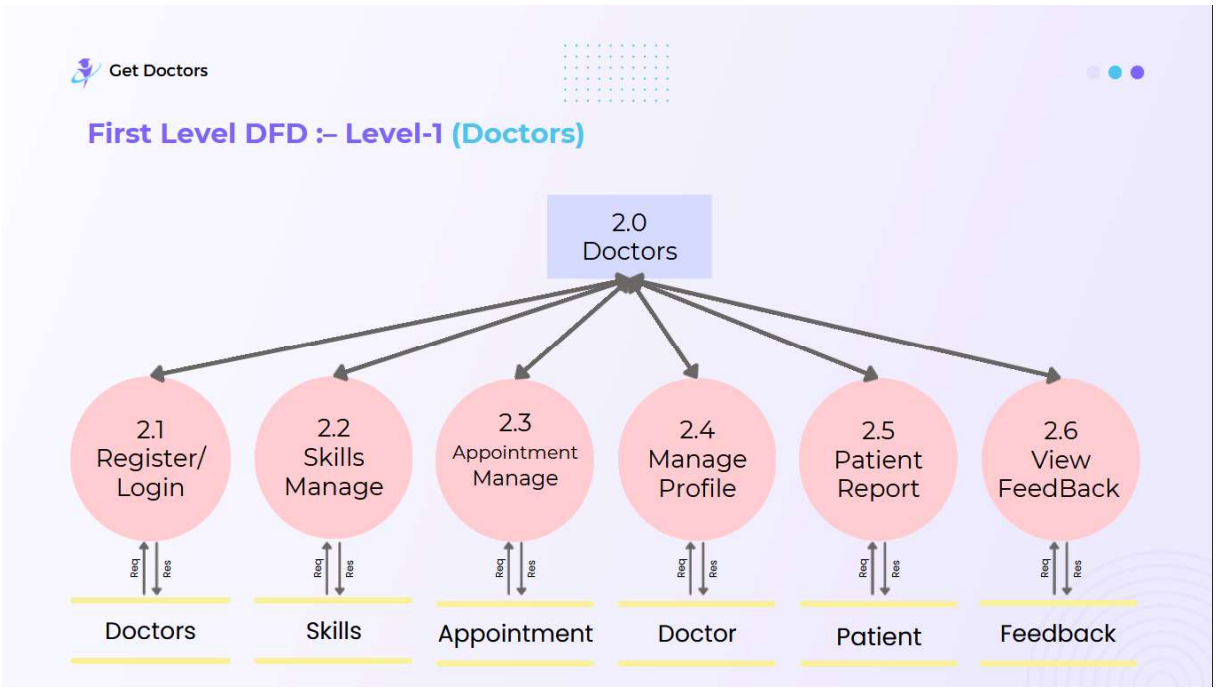
3.1 Data Flow Diagram (DFD)

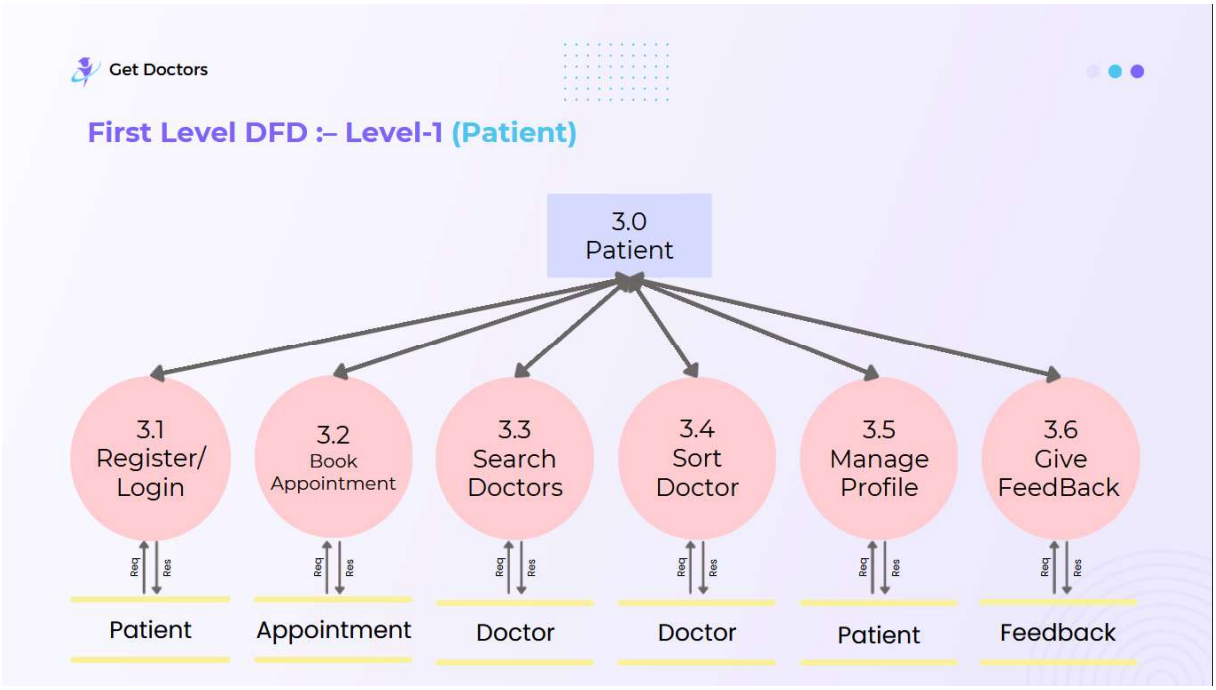
- **DFD Level 0**



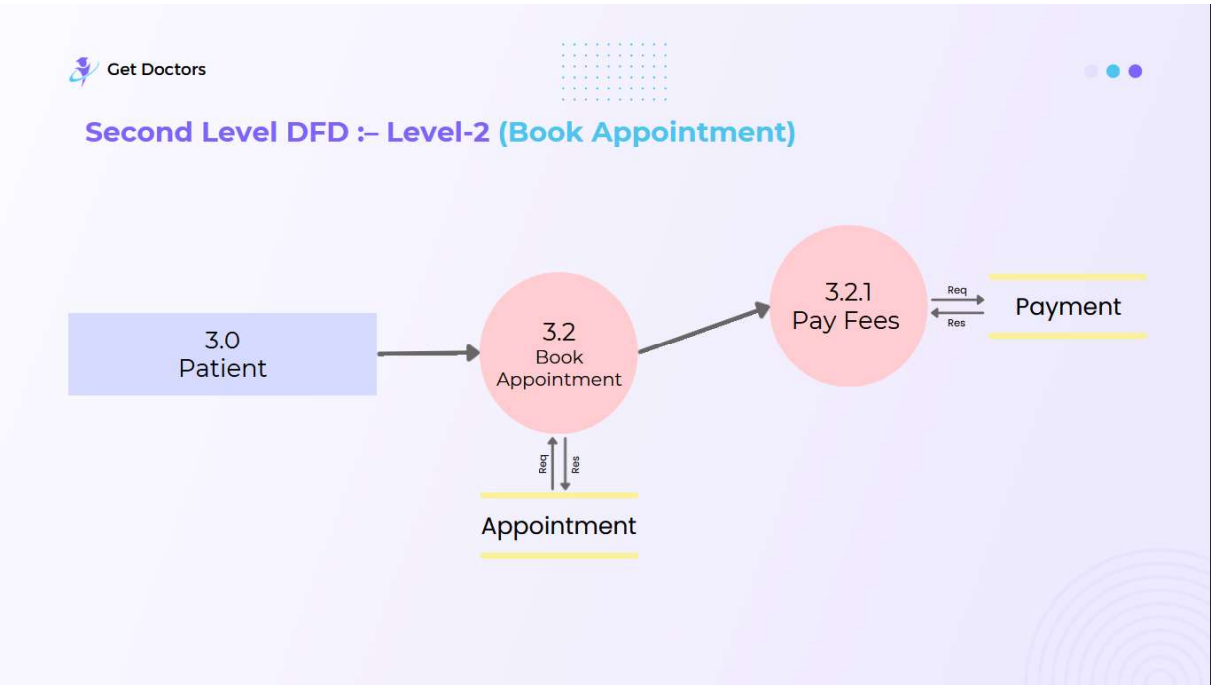
- **DFD Level 1**



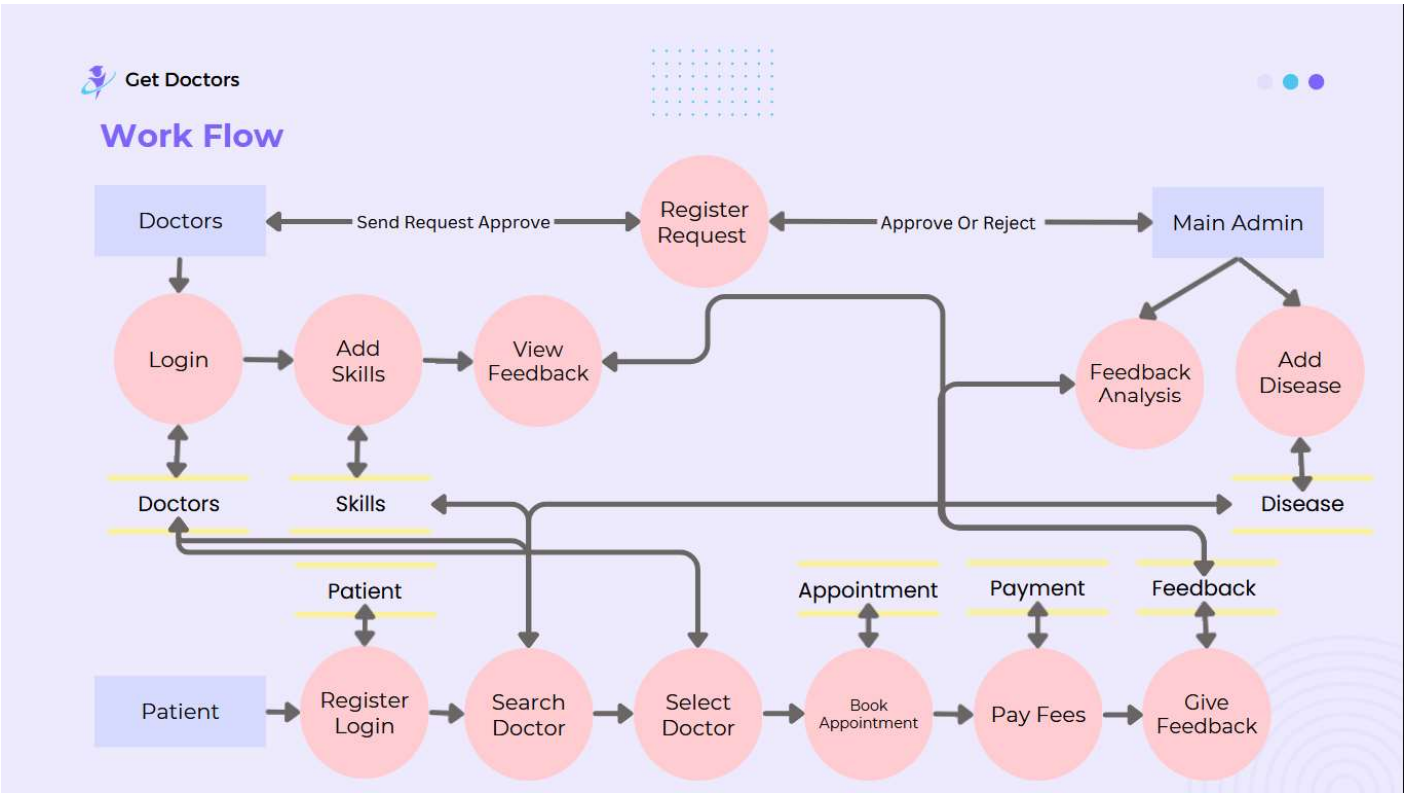

Get Doctors
First Level DFD :– Level-1 (Doctors)
2.0
Doctors
2.1
Register/
Login
2.2
Skills
Manage
2.3
Appointment
Manage
2.4
Manage
Profile
2.5
Patient
Report
2.6
View
FeedBack
Req
Res
Doctors
Skills
Appointment
Doctor
Patient
Feedback


Get Doctors
First Level DFD :– Level-1 (Patient)
3.0
Patient
3.1
Register/
Login
3.2
Book
Appointment
3.3
Search
Doctors
3.4
Sort
Doctor
3.5
Manage
Profile
3.6
Give
FeedBack
Req
Res
Patient
Appointment
Doctor
Doctor
Patient
Feedback

- **DFD Level 2**


Get Doctors
Second Level DFD :– Level-2 (Book Appointment)
3.0
Patient
3.2
Book
Appointment
3.2.1
Pay Fees
Req
Res
Payment
Req
Res
Appointment

Working Flow



3.2 Data Dictionary

Table Name: - main_admin

Description: -To store admin credentials.

Primary Key: - id

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	admin_id	int	20	Primary Key	Admin ID
2	username	Varchar	50	Not null	Admin Username
3	email	Varchar	50	Not null	Admin email
4	password	Varchar	50	Not null	Admin password
5	number	varchar	20	Not null	Admin number

Table Name: - patient

Description: - To store the user details.

Primary Key: - patient_id

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	Patient_id	int	20	Primary Key	User unique Id
2	name	Varchar	50	Not Null	Patient name
3	email	Varchar	50	Not null	Patient Mobile no.

4	address	Varchar	50	Not null	Patient address
5	age	int	20	Not Null	Patient age
6	number	varchar	20	Not null	Patient number
7	username	Varchar	50	Not Null	Patient username
8	password	Varchar	50	Not Null	Patient password

Table Name: - doctor

Description: -To store Doctor details.

Primary Key: - Doctor_id

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	doctor_id	int	20	Primary Key	Doctor ID
2	name	Varchar	50	Not Null	Doctor Name
3	number	varchar	20	Not null	Phone No
4	email	Varchar	50	Not null	E-mail ID
5	password	Varchar	50	Not null	Password
6	address	Varchar	50	Not null	Address
7	specialization	Varchar	50	Not null	Specialization
8	qualification	Varchar	50	Not null	Qualification
9	Profile_picture	Varchar	50	Not null	Profile Picture
10	status	Varchar	50	Not null	status

11	username	Varchar	50	Not null	username

Table Name: - Appointment

Description: -This table is used for store appointment details

Primary Key: - appointment_id

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	appointment_id	int	20	Primary Key	Appointment ID
2	patient_name	Varchar	50	Not null	patient Name
3	patient_email	Varchar	50	Not null	Patient email
4	appointment_date	Varchar	50	Not null	Appointment date
5	appointment_time	Varchar	50	Not null	Appointment time
6	additional_note	Varchar	50	Not null	Description
7	doctor_id	Varchar	50	Foreign key	Doctor id
8	patient_id	int	20	Foreign key	Patient id
9	disease	int	50	Foreign key	Description

Table Name: - feedback

Description: -To store feedbacks.

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	review_id	int	20	Primary Key	Review Id
2	rating	int	20	Not null	Rating
3	review_text	Varchar	50	Not null	Description
4	review_date_time	DateTime		Not null	Date&Time
5	doctor_id	int	20	Foreign key	Doctor id
6	patient_id	int	20	Foreign key	Patient id

Table Name: - Skill

Description: -To store skill.

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	skill_id	int	20	Primary Key	Review Id
2	Skill_name	Varchar	50	Not null	Skill name
3	status	Varchar	50	Not null	status
4	doctor_id	int	20	Foreign key	Doctor id

Table Name: - Disease

Description: -To store Disease.

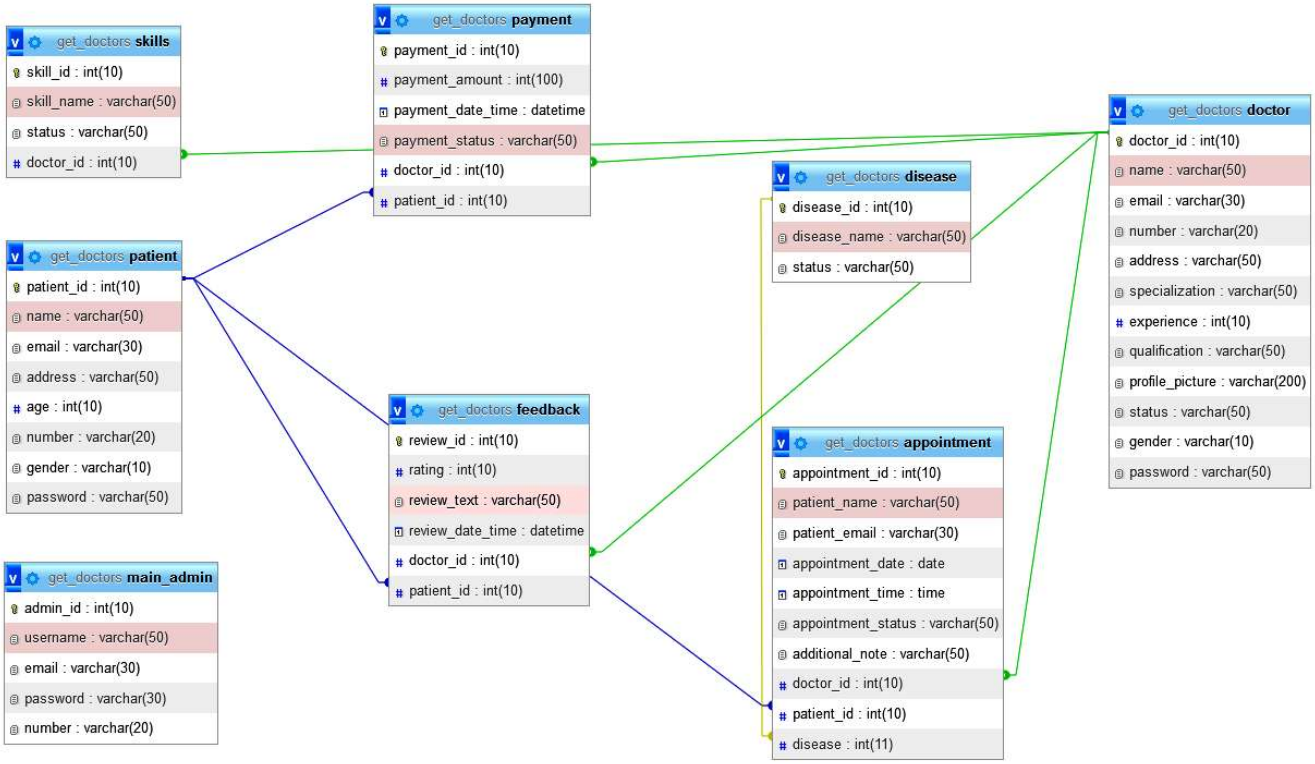
SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	disease_id	int	20	Primary Key	disease Id
2	disease_name	Varchar	50	Not null	disease name
3	status	Varchar	50	Not null	status

Table Name: - payment

Description: -To store Disease.

SR.NO.	FIELD	TYPE	SIZE	CONSTRAINTS	DESCRIPTION
1	payment_id	int	20	Primary Key	payment Id
2	payment_amount	Int	50	Not null	Payment amount
3	payment_date_time	dateTime		Not null	Date and time
4	payment_status	Varchar	50	Not null	Status
5	doctor_id	Int	10	Foreign key	Doctor id
6	patient_id	Int	10	Foreign key	Patient id

3.3 Entity Relationship

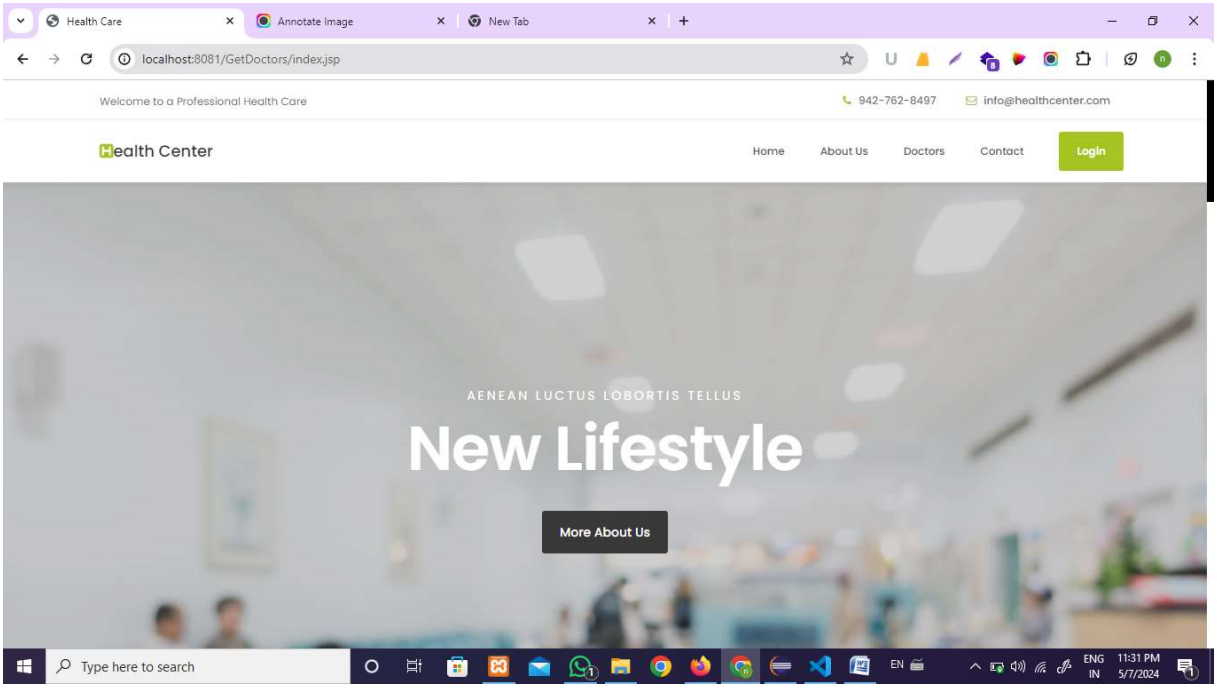


4. Interface Design

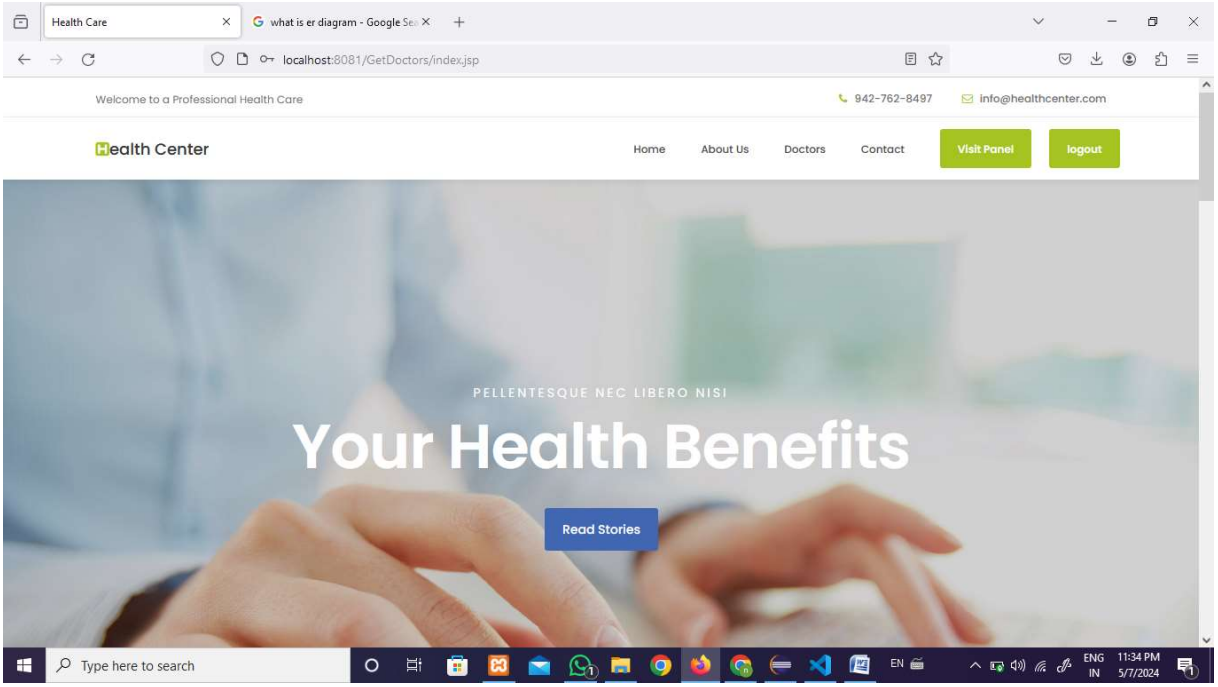
4.1 Screenshots

4.1.1 User Module

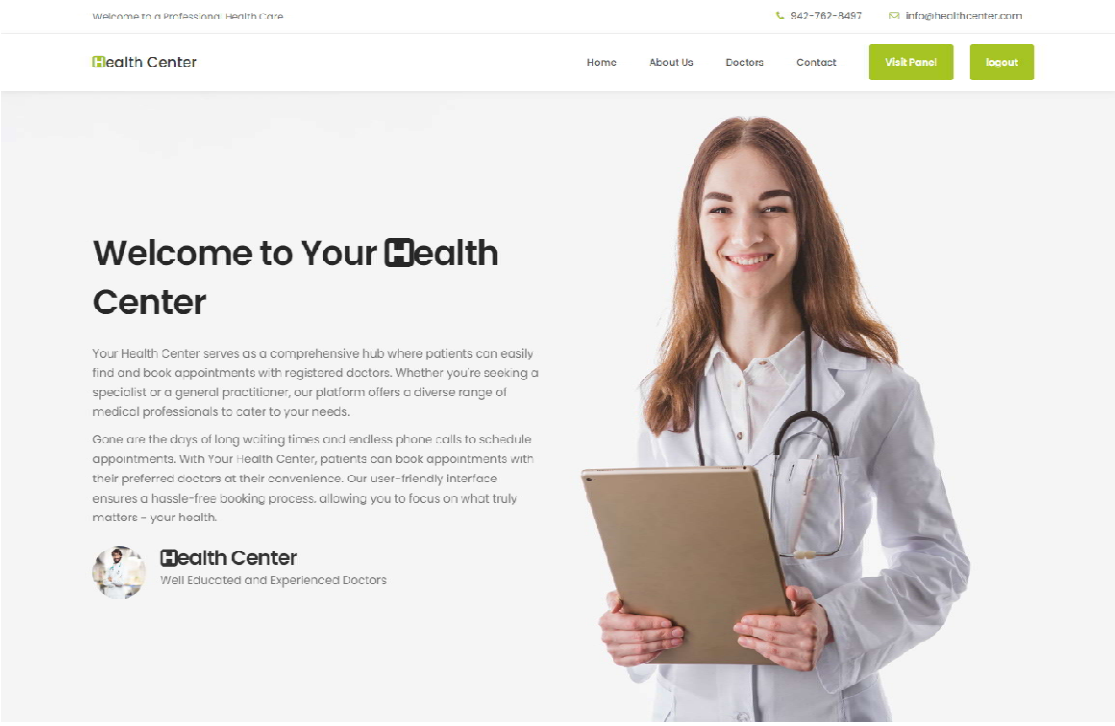
Index/Home page (before login)

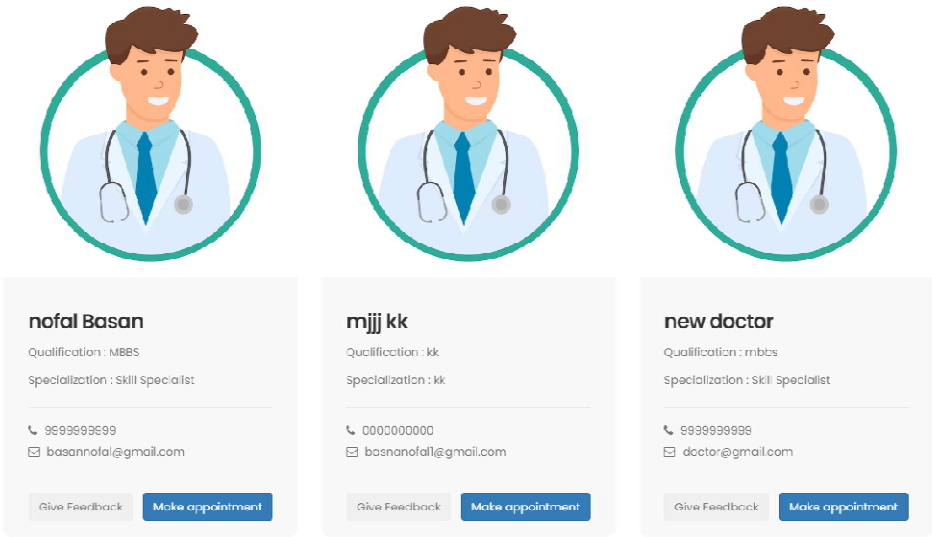


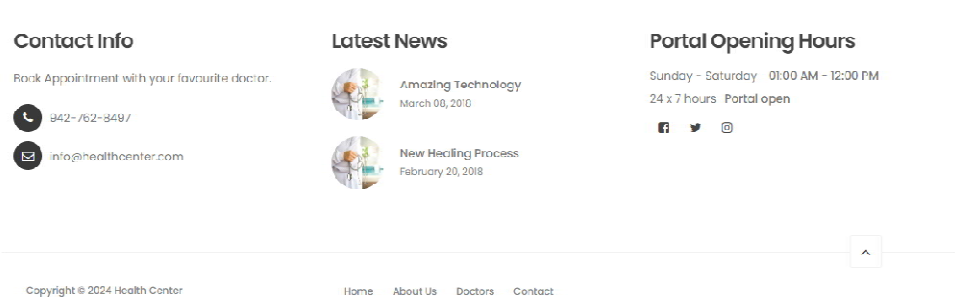
Home page (After Login)



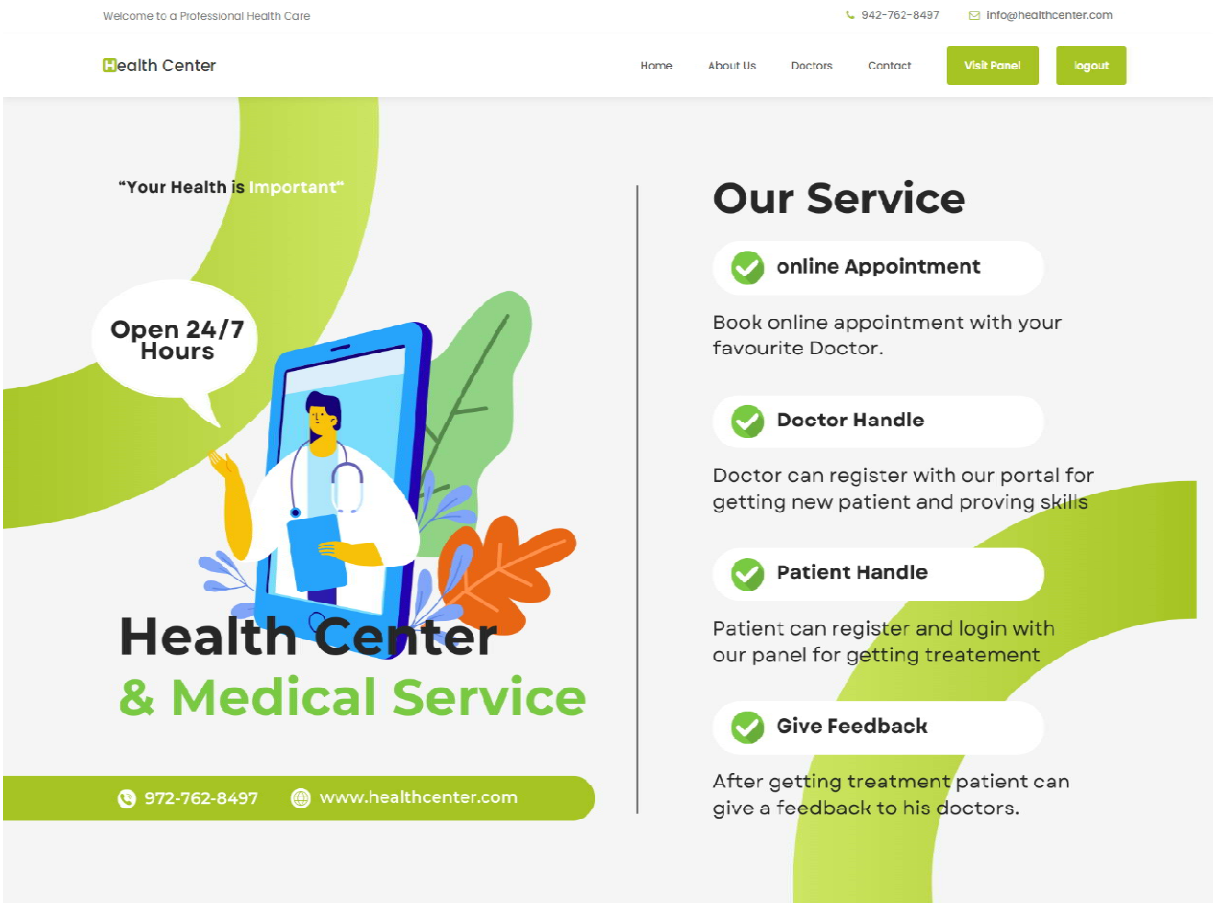
About Page

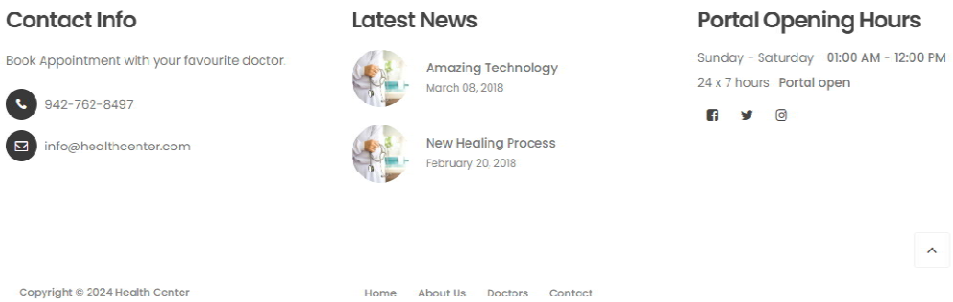

Welcome to a Professional Health Care
942-762-8497
info@healthcenter.com
Health Center
Home
About Us
Doctors
Contact
Visit Panel
logout
Welcome to Your Health Center
Your Health Center serves as a comprehensive hub where patients can easily find and book appointments with registered doctors. Whether you're seeking a specialist or a general practitioner, our platform offers a diverse range of medical professionals to cater to your needs.
Gone are the days of long waiting times and endless phone calls to schedule appointments. With Your Health Center, patients can book appointments with their preferred doctors at their convenience. Our user-friendly interface ensures a hassle-free booking process, allowing you to focus on what truly matters - your health.
Health Center
Well Educated and Experienced Doctors


nofal Basan
Qualification : MBBS
Specialization : Skill Specialist
9999999999
basannofal@gmail.com
Give Feedback
Make appointment
mjjj kk
Qualification : kk
Specialization : kk
0000000000
basnanofall@gmail.com
Give Feedback
Make appointment
new doctor
Qualification : mbbs
Specialization : Skill Specialist
9999999999
doctor@gmail.com
Give Feedback
Make appointment


Contact Info
Book Appointment with your favourite doctor.
942-762-8497
info@healthcenter.com
Latest News
Amazing Technology
March 08, 2010
New Healing Process
February 20, 2018
Portal Opening Hours
Sunday - Saturday 01:00 AM - 12:00 PM
24 x 7 hours Portal open
Copyright © 2024 Health Center
Home
About Us
Doctors
Contact

Contact Us Page





Doctors Page

Welcome to a Professional Health Care

942-762-8497 info@healthcenter.com

Health Center

Home About Us Doctors Contact Visit Panel logout

Welcome to Our Expert Medical Team

At Health Center, we're proud to introduce our esteemed panel of doctors, all dedicated to providing exceptional healthcare services. Our team comprises highly skilled professionals from various medical specialties, committed to delivering personalized care and ensuring the well-being of our patients.

Thank you for choosing Health Center for your healthcare needs. We look forward to serving you and helping you achieve optimal health and well-being.

Our Doctors

Find Doctor Name, Speci Find

nofal Basan

Qualification : MBBS

Specialization : Skill Specialist

9999999999

basannofal@gmail.com

Give Feedback Make appointment

mjjj kk

Qualification : kk

Specialization : kk

0000000000

basnanofal@gmail.com

Give Feedback Make appointment

new doctor

Qualification : mbbs

Specialization : Skill Specialist

9999999999

doctor@gmail.com

Give Feedback Make appointment

Contact Info

Book Appointment with your favourite doctor.

942-762-8497

info@healthcenter.com

Latest News

Amazing Technology

March 08, 2018

New Healing Process

February 20, 2018

Portal Opening Hours

Sunday - Saturday : 8:00 AM - 12:00 PM

24 x 7 hours Portal open

Copyright © 2024 Health Center

Home About Us Doctors Contact

Search Doctors

Welcome to a Professional Health Care

942-762-8497 info@healthcenter.com

Health Center

Home About Us Doctors Contact Visit Panel logout

Searched Doctors (Skill Specialist)

Find Doctor Name, Speci Find

nofal Basan

Qualification : MBBS

Specialization : Skill Specialist

9999999999

basannofal@gmail.com

Give Feedback Make appointment

new doctor

Qualification : mbbs

Specialization : Skill Specialist

9999999999

doctor@gmail.com

Give Feedback Make appointment

Contact Info

Book Appointment with your favourite doctor.

942-762-8497

info@healthcenter.com

Latest News

Amazing Technology

March 08, 2018

New Healing Process

February 20, 2018

Portal Opening Hours

Sunday - Saturday 01:00 AM - 12:00 PM

24 x 7 hours Portal open

Copyright © 2024 Health Center

Home About Us Doctors Contact

Book Appointment

Welcome to a Professional Health Care

942-762-8497 info@healthcenter.com

Health Center

Home About Us Doctors Contact Visit Panel logout

Make an appointment with new doctor

Name

Full Name

Email

Your Email

Select Date

mm/dd/yyyy

Select Time

--:-- --

Select Disease

HIV

Additional Message

Message

Submit Button

Contact Info

Book Appointment with your favourite doctor.

942-762-8497

info@healthcenter.com

Latest News

Amazing Technology

March 08, 2018

New Healing Process

February 20, 2018

Portal Opening Hours

Sunday - Saturday 01:00 AM – 12:00 PM

24 x 7 hours Portal open

Copyright © 2024 Health Center

Home About Us Doctors Contact

Give a feedback

Welcome to a Professional Health Care

942 762 8497 info@healthcenter.com

Health Center

Home About Us Doctors Contact Visit Panel logout

Give Feedback To new doctor

Select Date

mm/dd/yyyy

Select Time

mm/dd/yyyy --:-- --

Rating

Additional Message

Message

Submit Button

Contact Info

Book Appointment with your favourite doctor.

942-762-8497

info@healthcenter.com

Latest News

Amazing Technology
March 08, 2018

New Healing Process
February 20, 2018

Portal Opening Hours

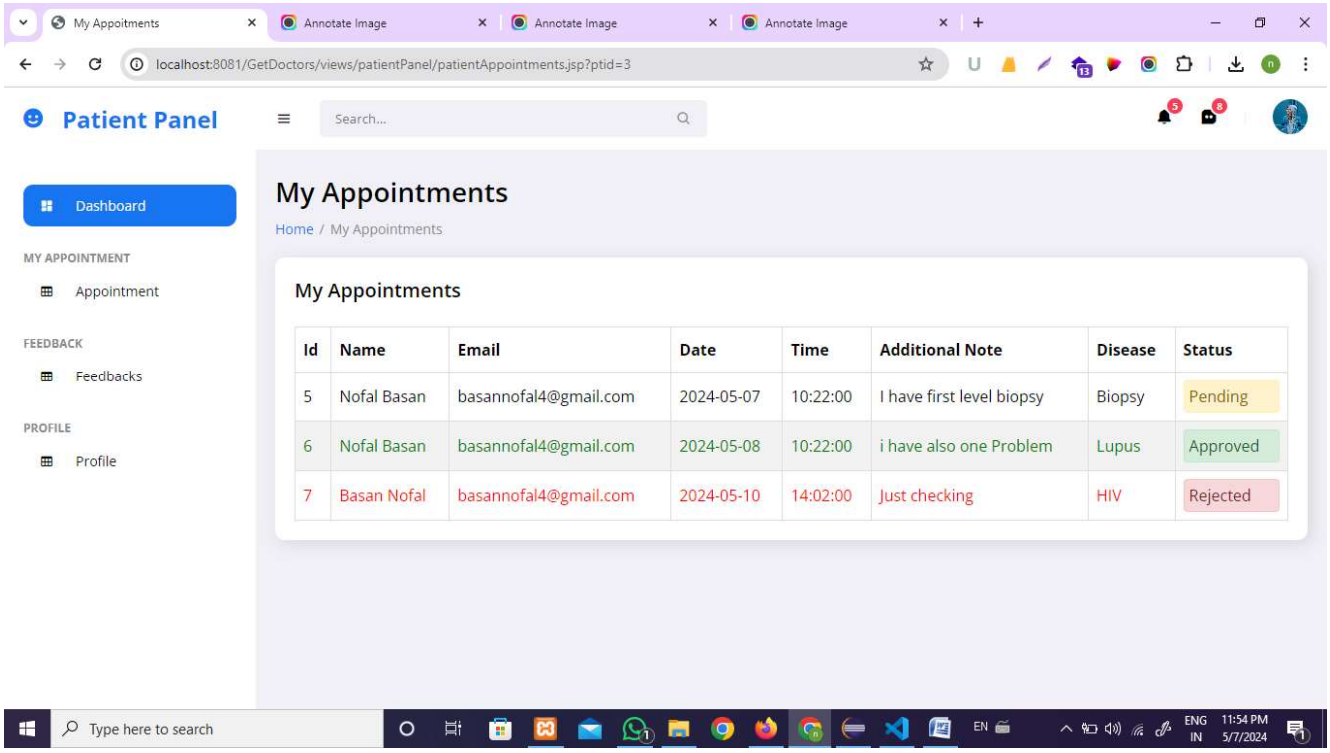
Sunday - Saturday 01:00 AM - 12:00 PM

24 x 7 hours Portal open

Copyright © 2024 Health Center

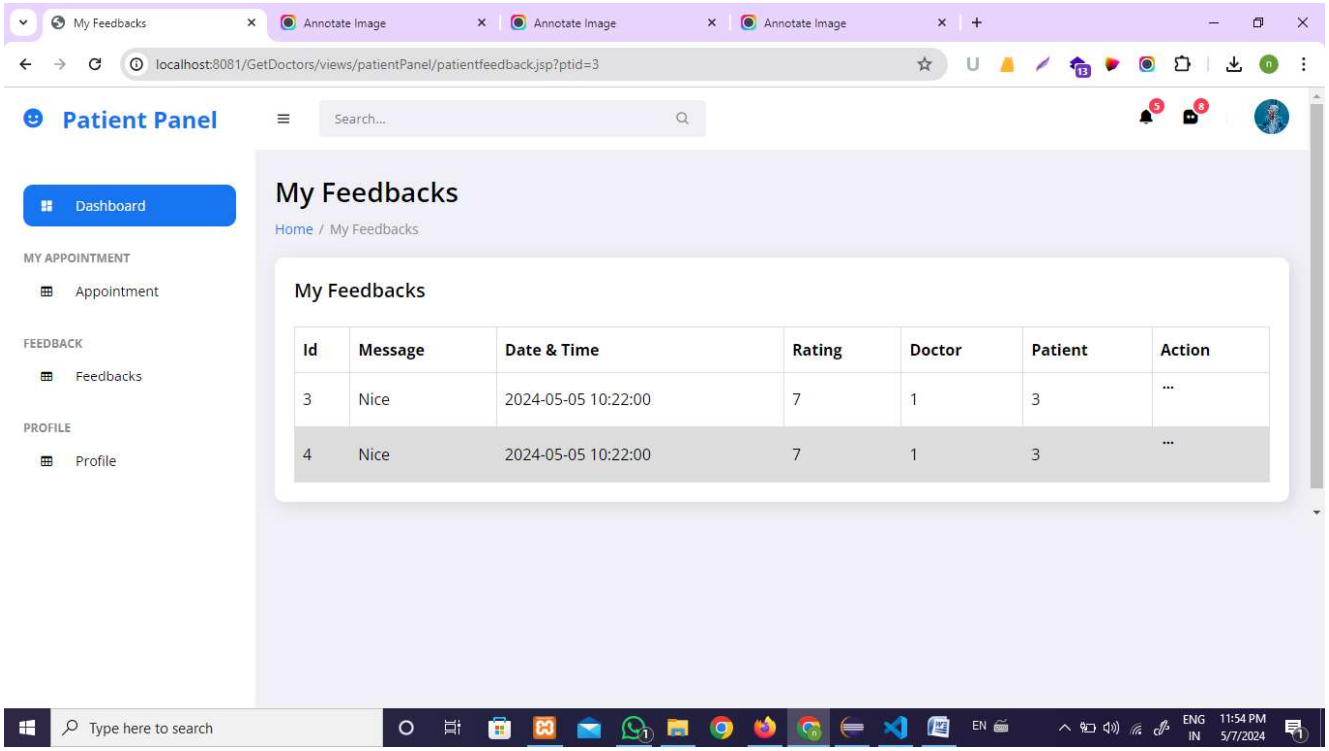
Home About Us Doctors Contact

Patient Appointments



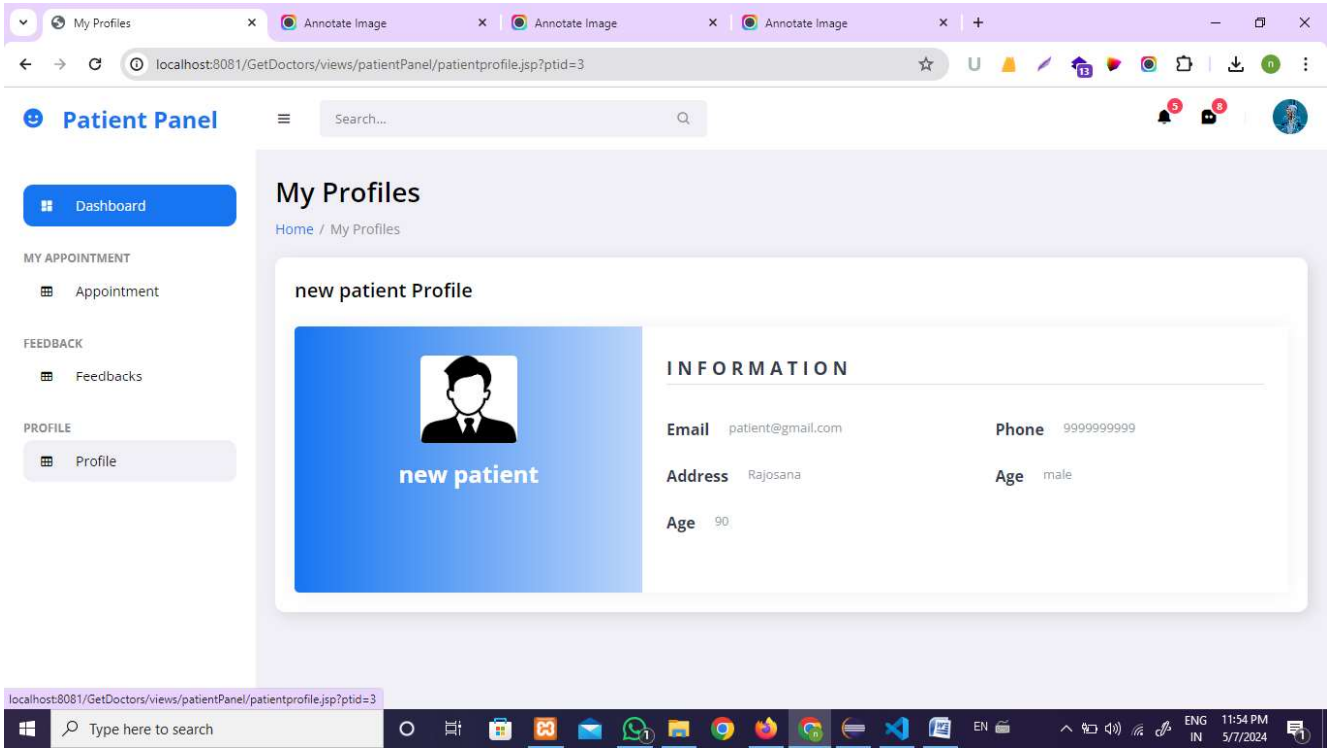
Id	Name	Email	Date	Time	Additional Note	Disease	Status
5	Nofal Basan	basannofal4@gmail.com	2024-05-07	10:22:00	I have first level biopsy	Biopsy	Pending
6	Nofal Basan	basannofal4@gmail.com	2024-05-08	10:22:00	i have also one Problem	Lupus	Approved
7	Basan Nofal	basannofal4@gmail.com	2024-05-10	14:02:00	Just checking	HIV	Rejected

Patient Feedbacks

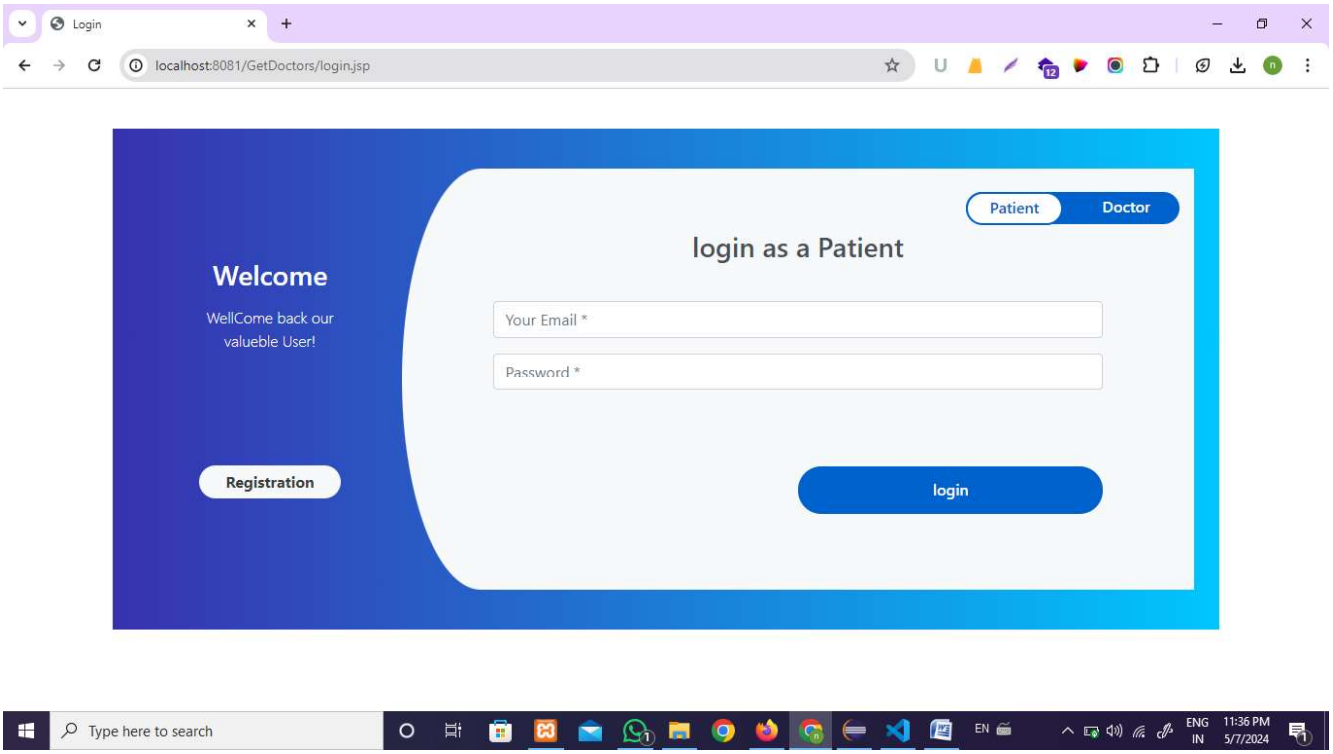


Id	Message	Date & Time	Rating	Doctor	Patient	Action
3	Nice	2024-05-05 10:22:00	7	1	3	...
4	Nice	2024-05-05 10:22:00	7	1	3	...

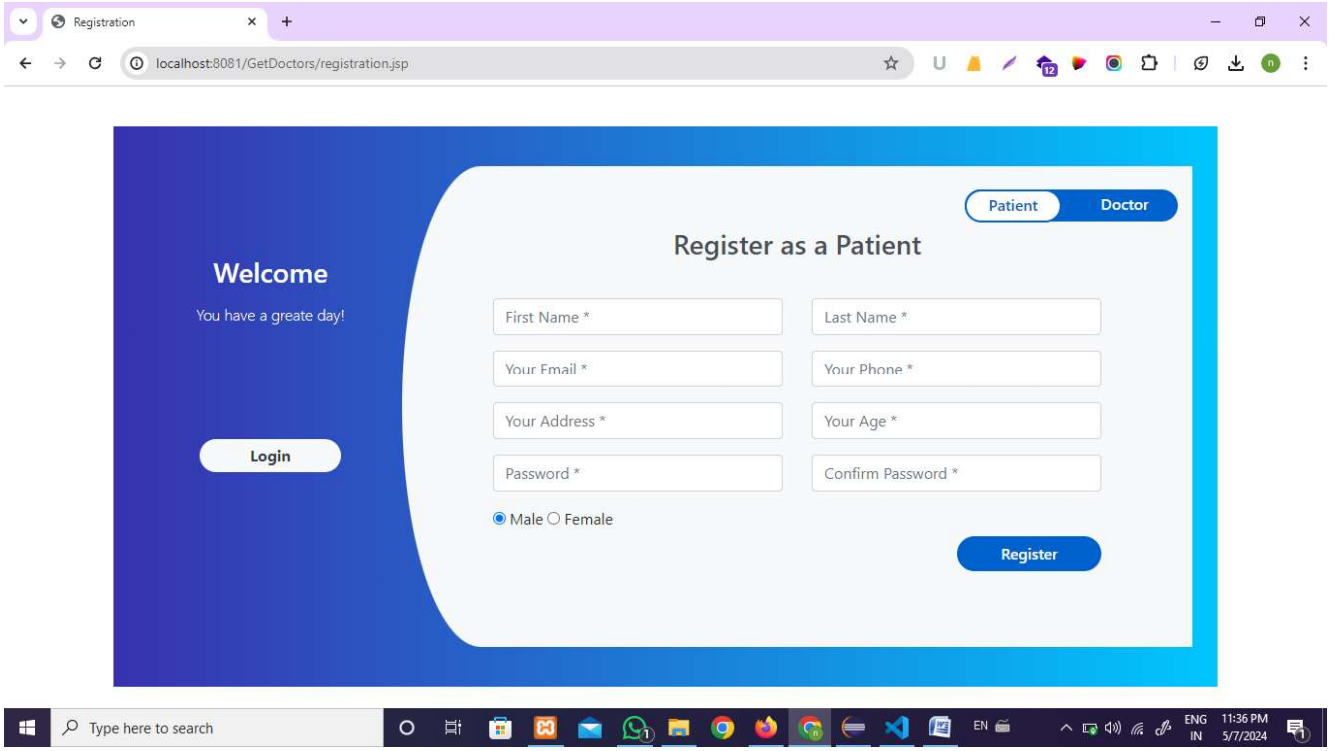
Patient Profile



Patient & Doctor Login Form (switchable)

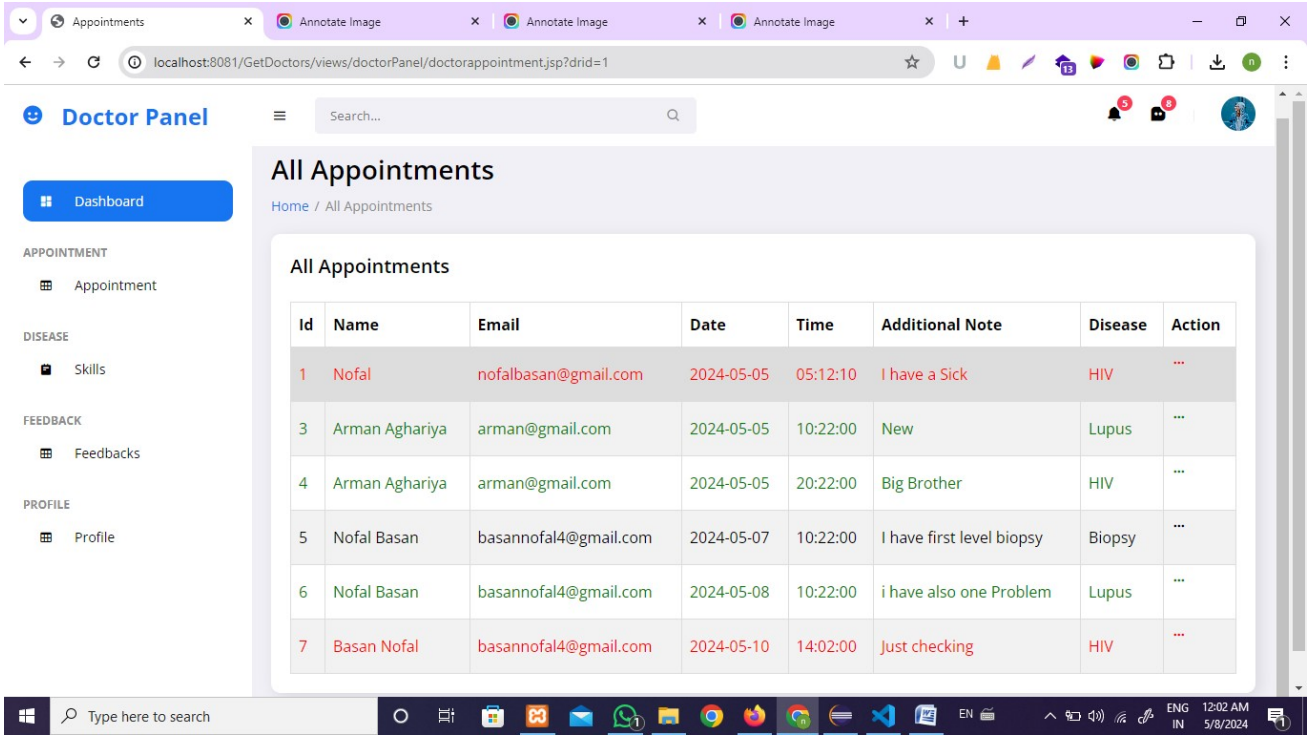


Patient & Doctor Registration Form

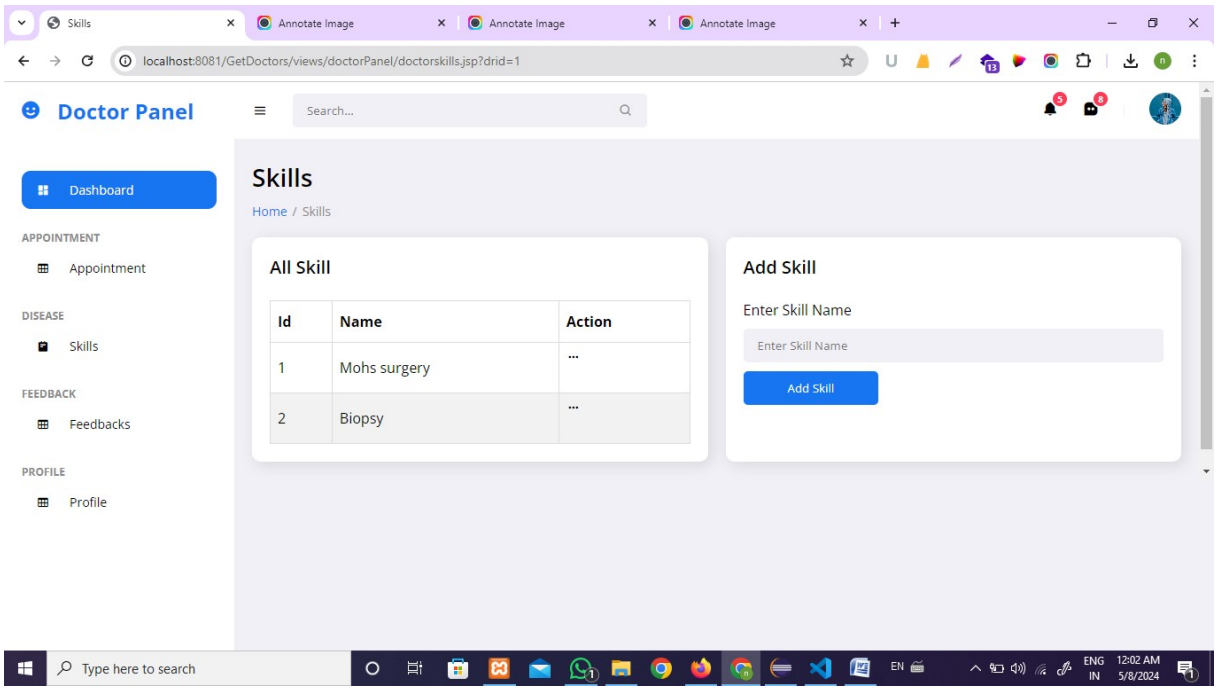


4.1.2 Doctor Module

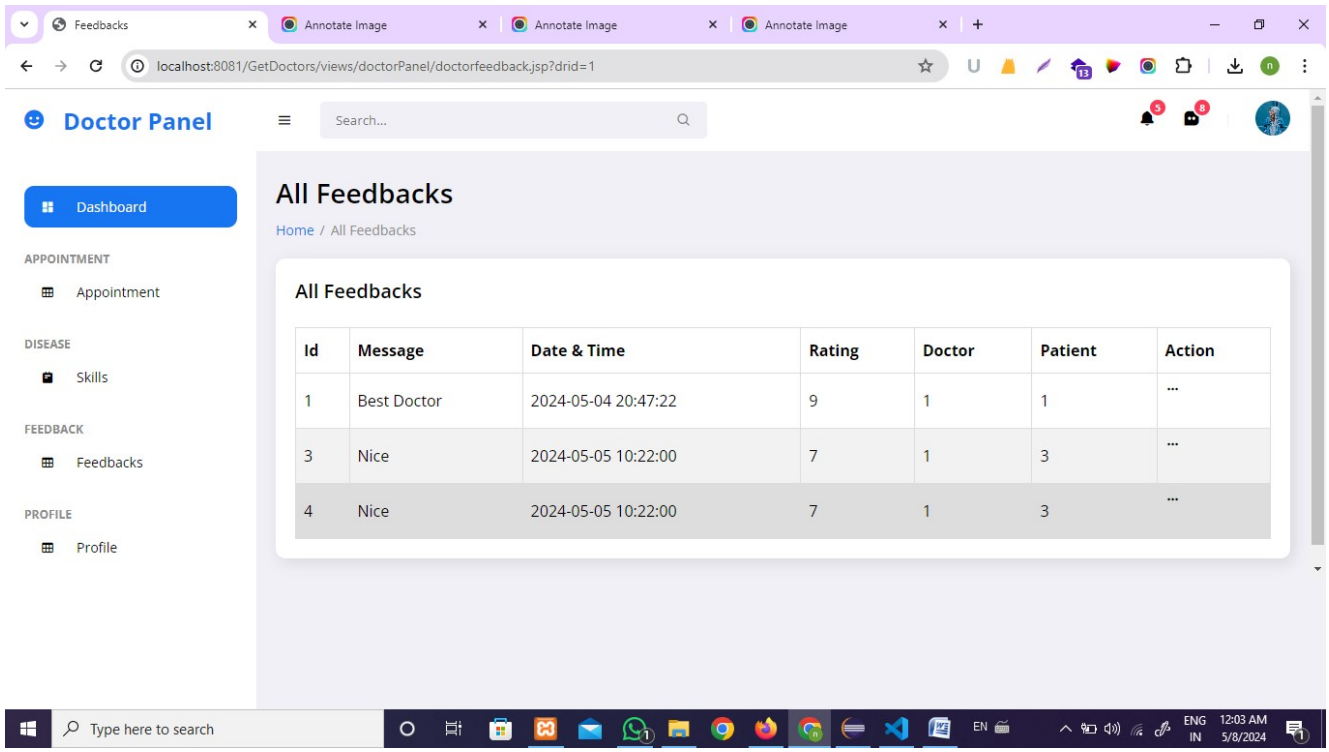
Doctor Appointments



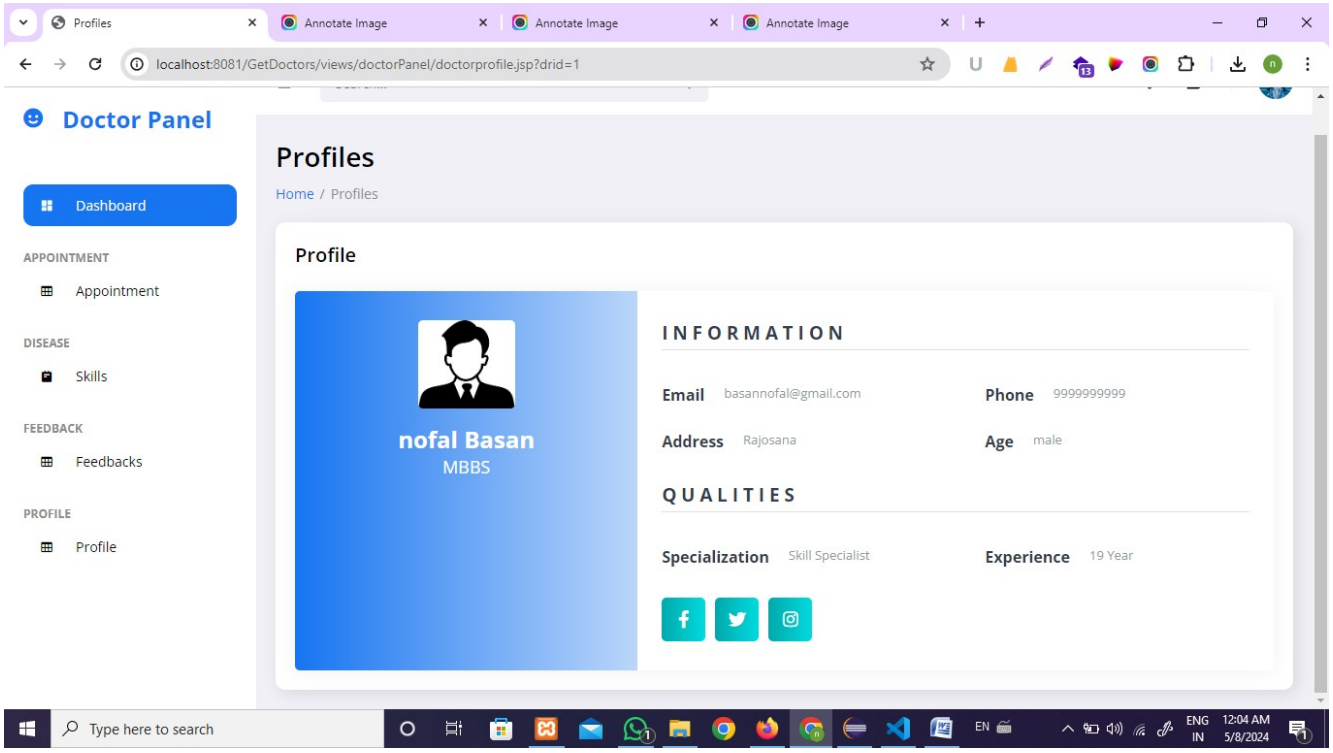
Doctors Skills



Doctors Feedback

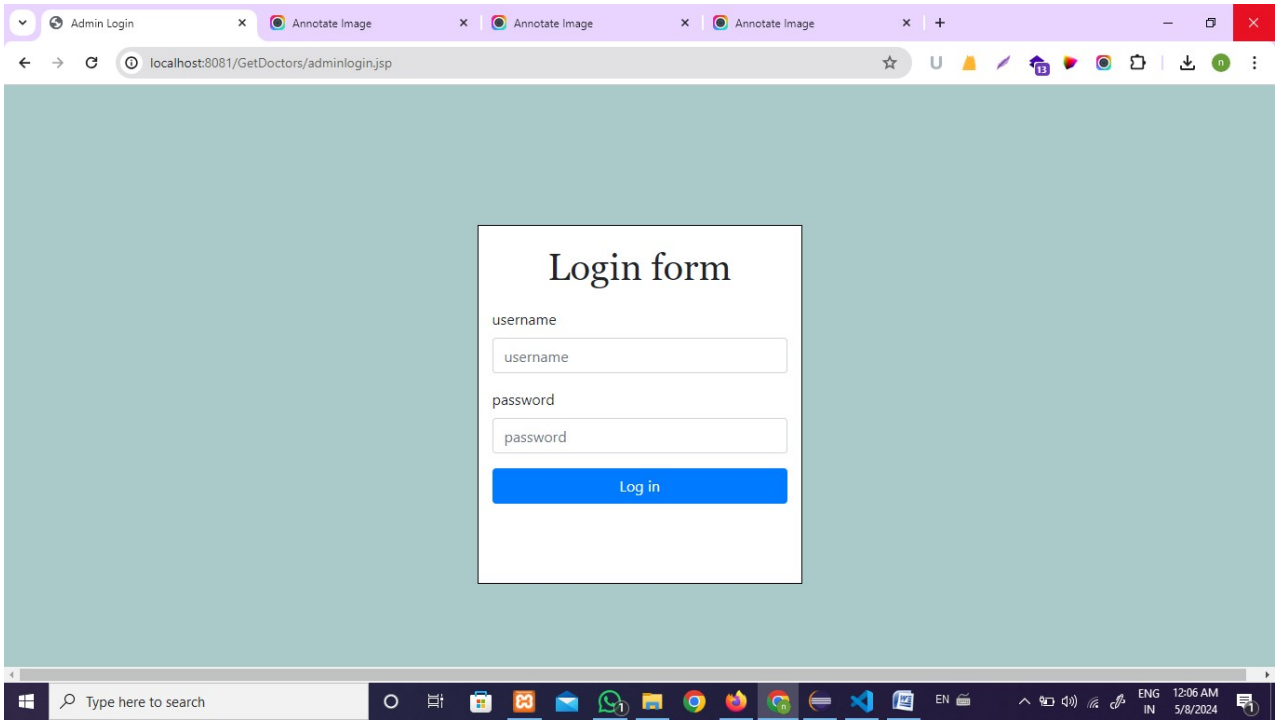


Doctor Profile

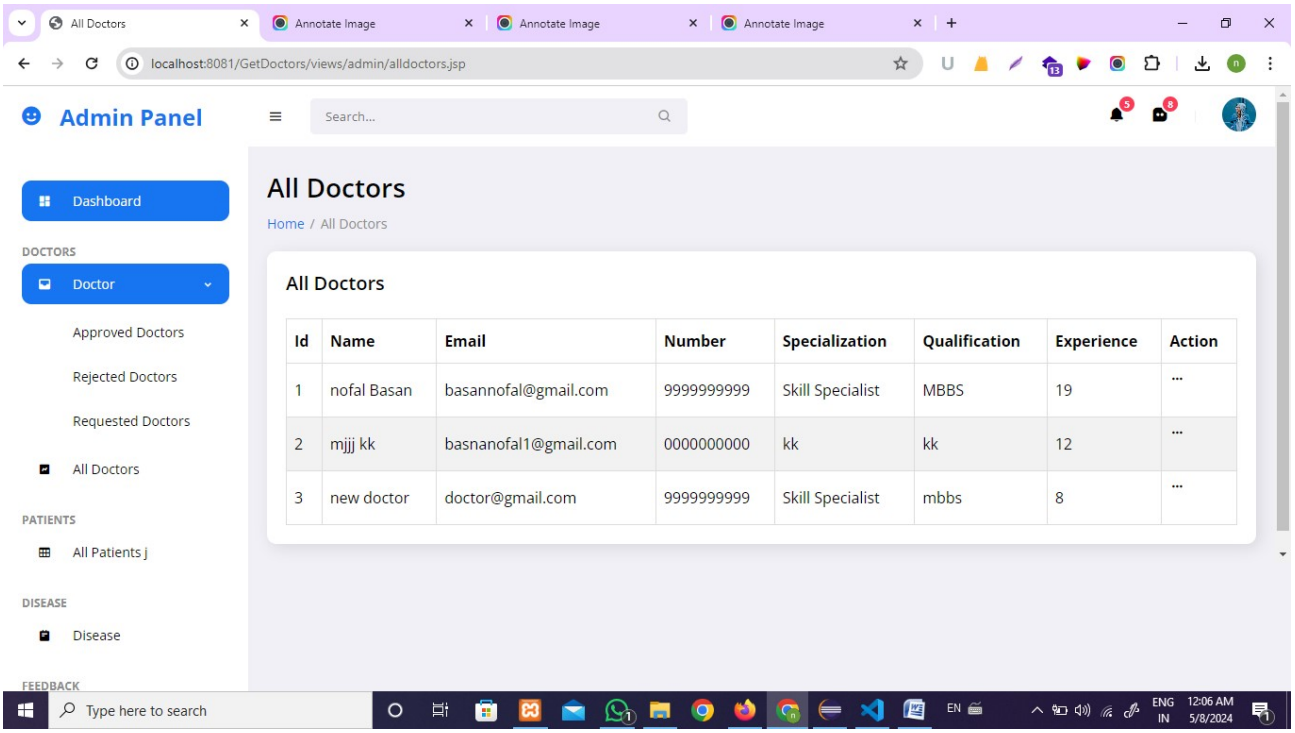


4.1.3 Admin Module

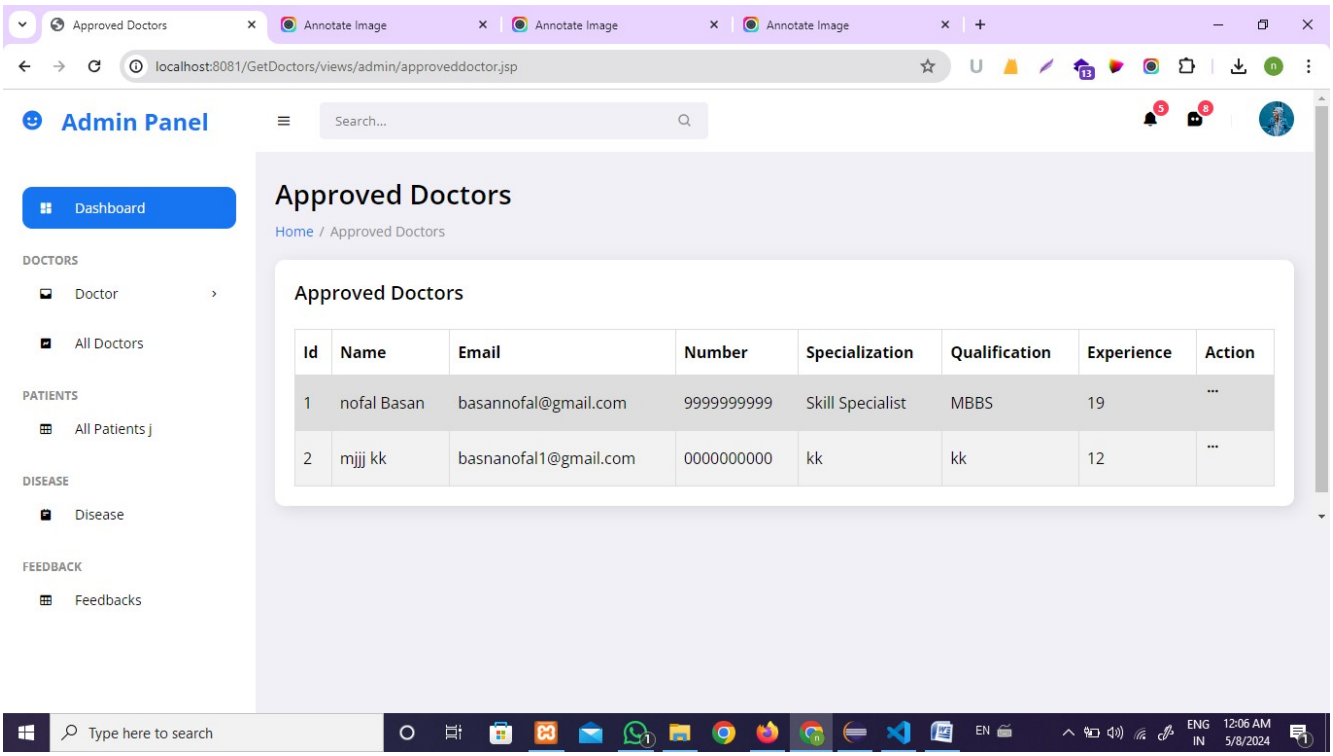
Admin login Form



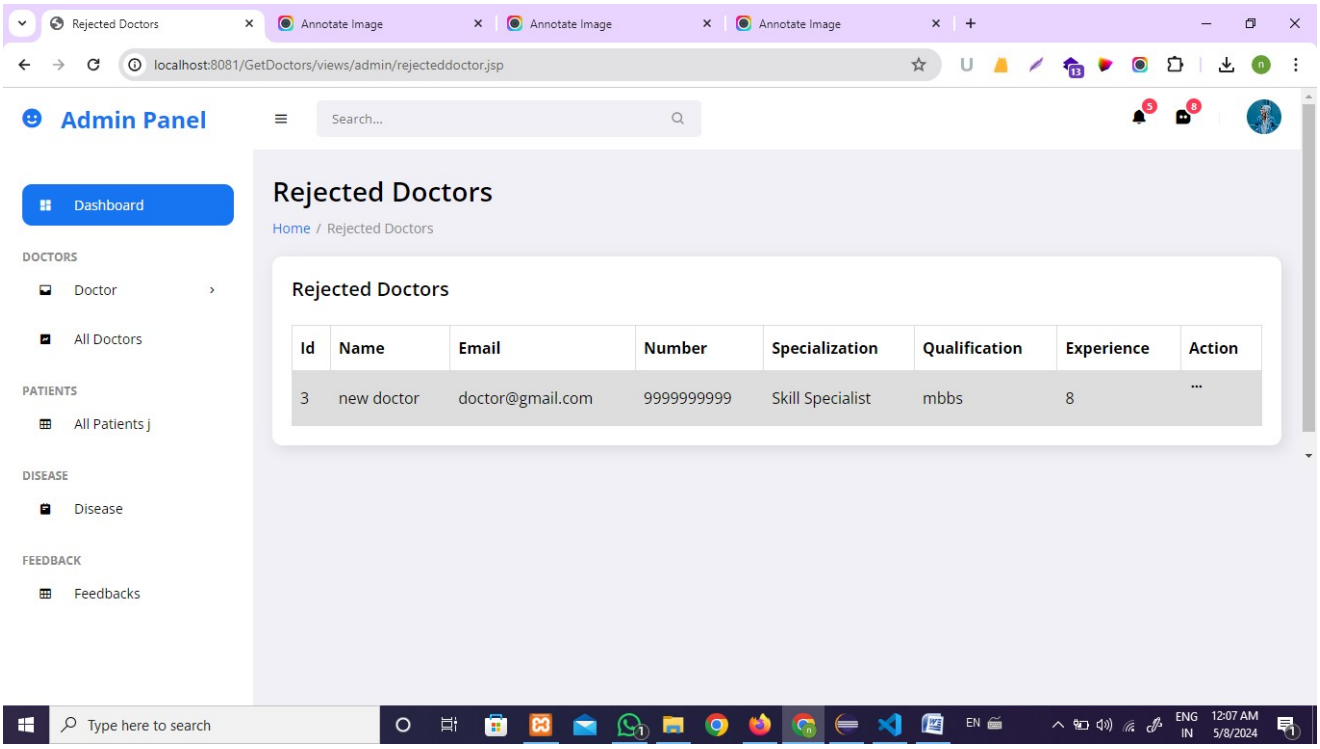
All Doctors



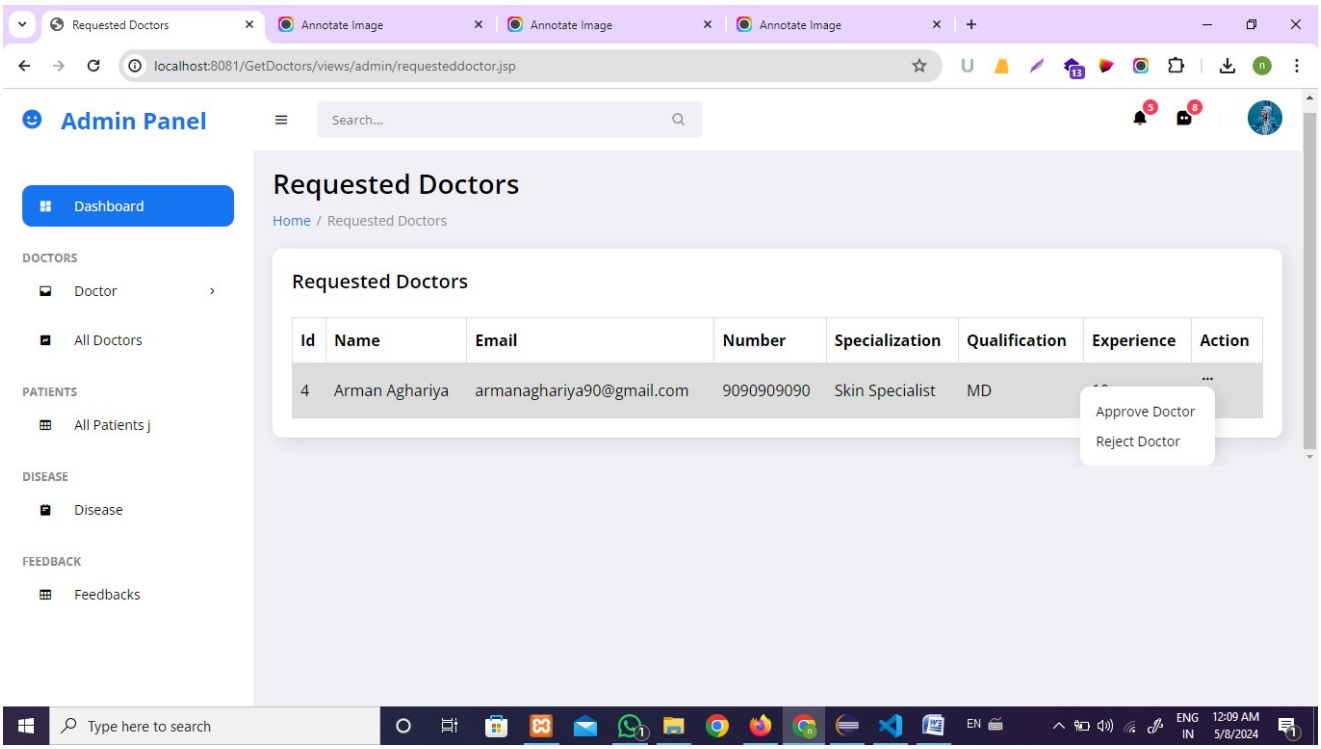
Approved Doctors



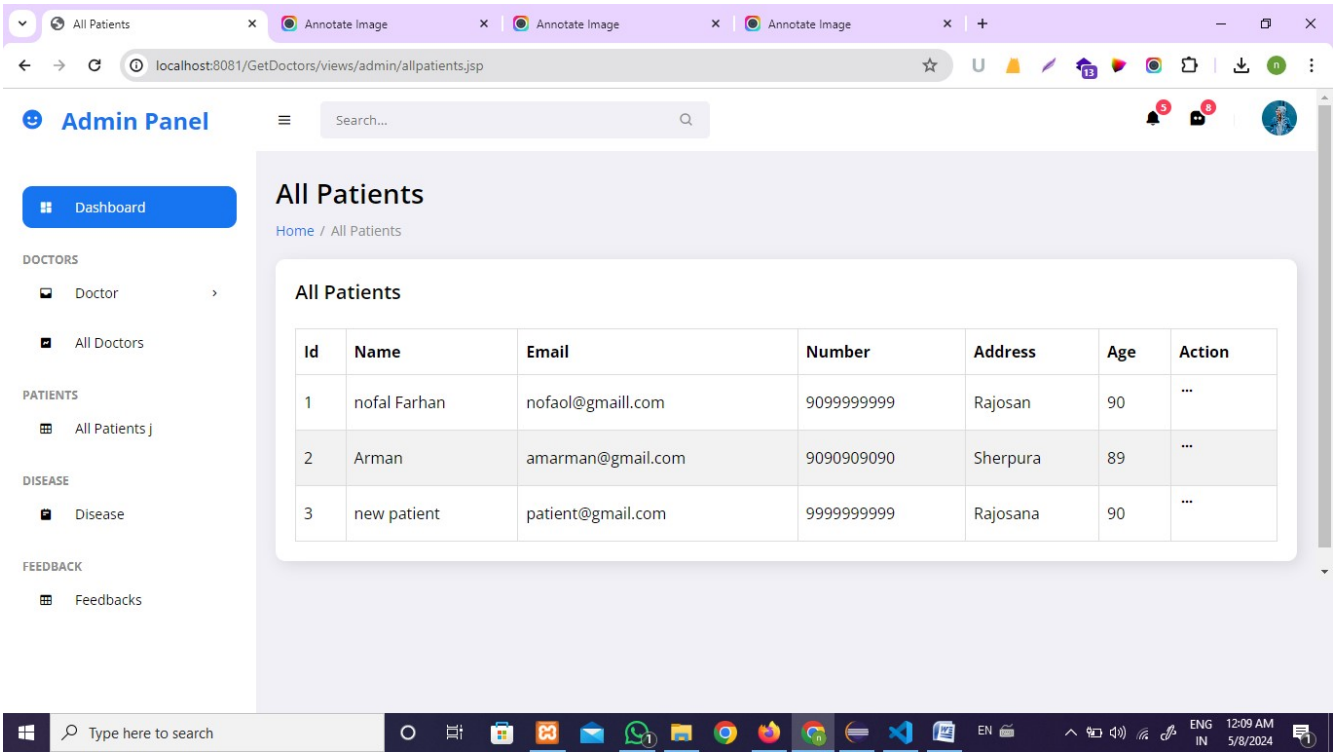
Rejected Doctors



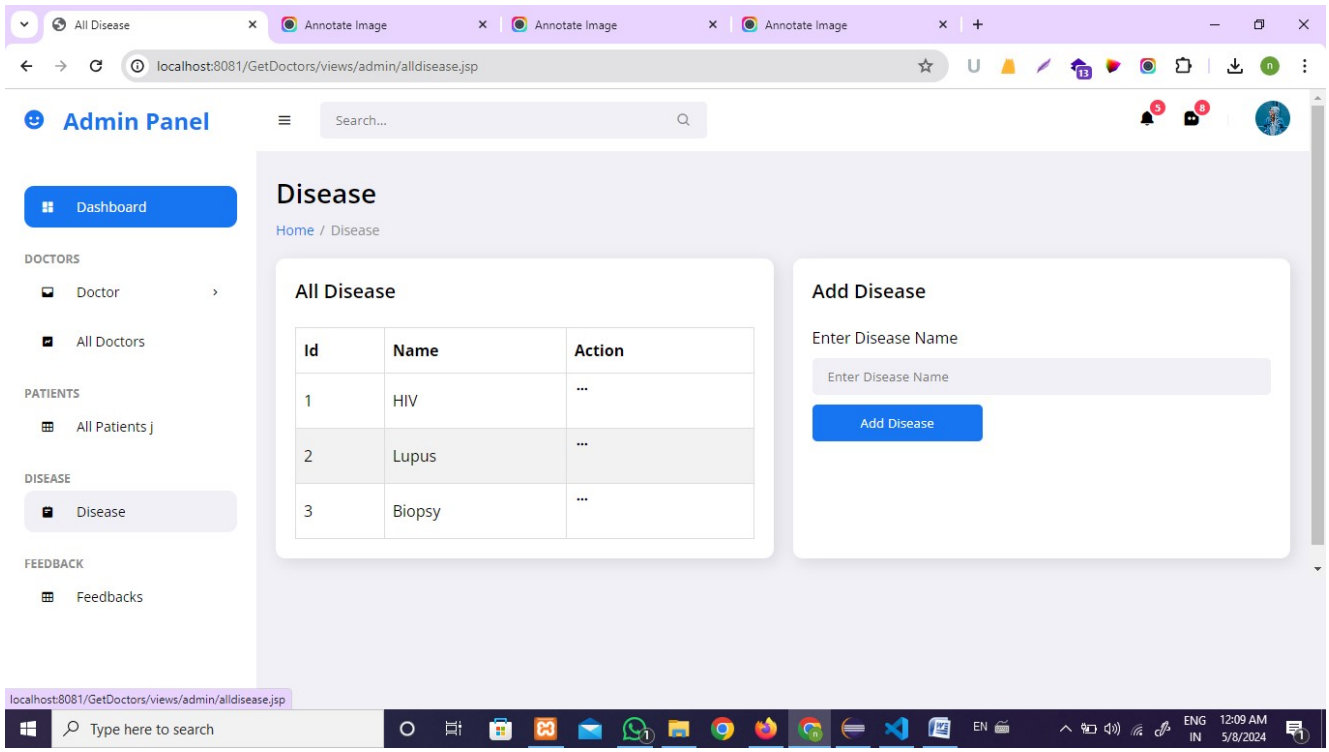
Requested Doctors



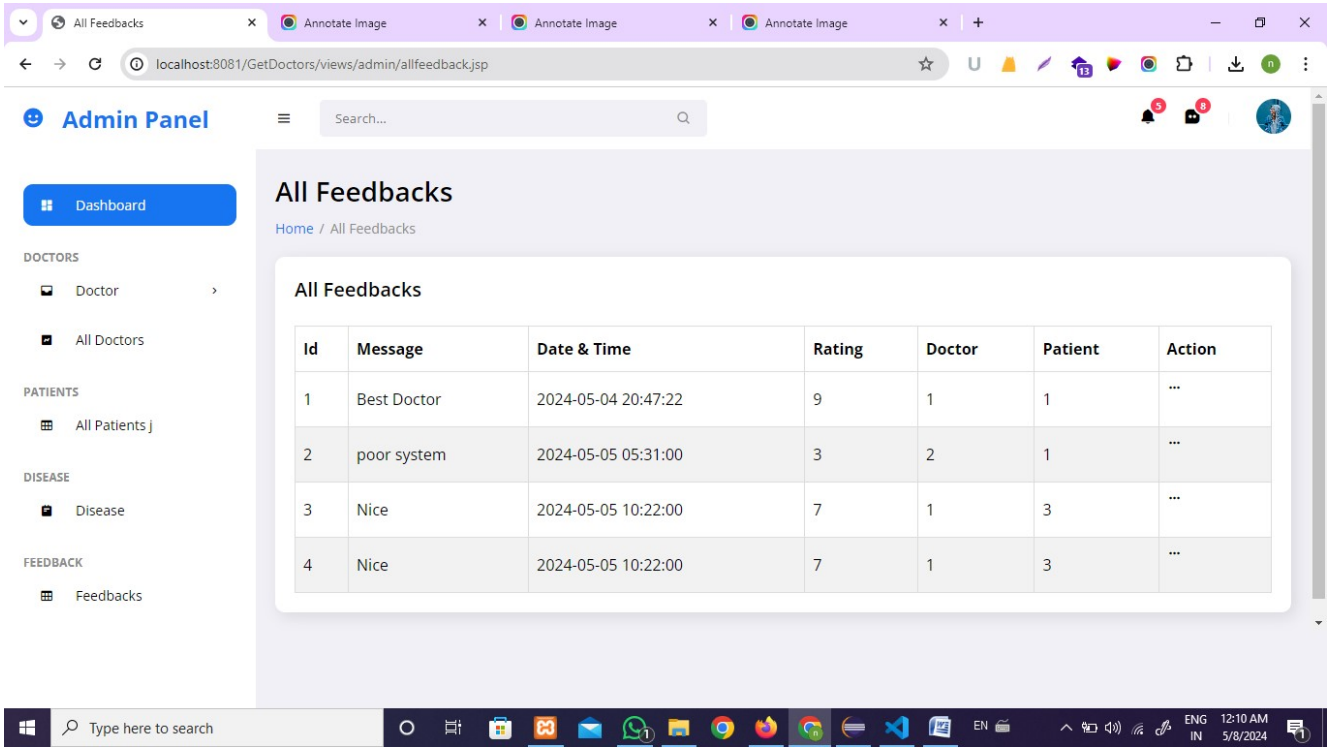
All Patients



Manage Disease



Manage Feedbacks



5. Conclusion & Future work

Conclusion

- our project represents a significant step forward in revolutionizing the healthcare landscape by leveraging technology to enhance accessibility, streamline processes, and improve patient-provider interactions. Through features such as centralized appointment management, seamless communication channels, and transparent feedback mechanisms, we have successfully addressed key challenges in healthcare delivery.
- By empowering both patients and healthcare providers with tools for efficient scheduling, communication, and record-keeping, our platform has contributed to a more patient-centered and collaborative approach to healthcare. Furthermore, the integration of future enhancements, such as telemedicine, AI-driven decision support, and remote monitoring, promises to further elevate the quality and effectiveness of care delivery.
- As we continue to evolve and innovate, our commitment to advancing healthcare remains unwavering. We envision a future where access to high-quality healthcare is seamless, personalized, and inclusive for all. Together, we can shape a healthier tomorrow, where technology serves as a catalyst for positive change in the lives of individuals and communities worldwide

Future Work

There is always room for improvement in any software package, however efficient it maybe. Butthe important thing is that the system should be flexible enough for future modifications. This system has been designed in such a way that the modifications can always beincorporated without affecting the other modules, as the modules have been keptindependent of each other.

- Provide the facility for SMS Integration.
- Provide Health Card generation for the patients
- Provide downloading facility of other software.

6. References & Bibliography

World Wide Web:

- www.w3schools.com/
- www.mysql.com
- www.javatpoint.com
- https://chatgpt.com/
- www.canva.com