

“Patient Doctor Video Call Management System”

MediPulse

A PROJECT REPORT

Submitted by
Hardik Kathiriya [ET21MTCA035]
Nainsi Sangani [ET21MTCA083]

Under the Guidance Of
Prof. Prashant Keswani

In fulfilment for the award of the degree

Of

Master of Computer Application

At



Sarvajani College of Engineering & Technology,
Sarvajani University, Surat

Apr-2023



SARVAJANIK UNIVERSITY
Sarvajani College of Engineering and Technology
MASTER OF COMPUTER APPLICATION
Academic Year 2022-23



CERTIFICATE

Date: 29-04-2023

This is to certify that the project entitled “**MediPulse**” has been Submitted by, **Hardik Kathiriya [ET21MTCA035]** and **Nainsi Sangani [ET21MTCA083]** towards fulfilment of the degree Of Master of Computer Applications (M.C.A.) in (3rd Semester) of Sarvajani University, Surat During the academic year 2022-23.

Guide Name: Prof. Prashant Keswani

(Prof. Prashant Keswani)

(Guide’s Signature)

(Head - M.C.A. Department)

Examiners’ Signature:

- 1.
- 2.
- 3.

Self-Declaration

Title of the Project: **Medipulse**

Enrolment Number:	Student Name:
Hardik Kathiriya	ET21MTCA035
Nainsi Sangani	ET21MTCA083

- We, hereby declare that the above-mentioned project report submitted by us has been prepared by us and is original in its content and it has not been submitted anywhere else.
- We confirm that the report is only prepared for academic requirements, not for any other purpose. It might not be used by anyone for any other purpose.

ACKNOWLEDGEMENT

- Our self- **Hardik Kathiriya & Nainsi Sangani** have opportunity to express our knowledge. We would like to express our gratitude to all those who gave us the possibility to complete our project. Success is such a comprehensive project can't achieve single-handed. so, we would like to express our sincere thanks to all the dignitaries who were involved in making this project the great joy and turning it our into successful piece of work. I am also indebted to our professor **Prof. Prashant Keswani** who provided constant encouragement, support & valuable guidance before and during our project. It was her effort who led me to this place for project work. Her guidance and suggestion were invaluable. We also like to thanks our all the professor who are always ready to give best guide. They are the person who give solution whenever needed.

Thank you

From,

Hardik Kathiriya

Nainsi Sangani

Internship Letter - Hardik



Date: 14-Apr-2023

To whomsoever it may concern

This is to certify that **Hardik Kathiriya** is doing an **Internship** at Casepoint Pvt. Ltd. from **2nd January 2023 to till date**.

Project Name: **Patient Doctor Video Call Management System- MediPulse**

During this tenure, we found that he has worked with dedication. We found Hardik active in whatever task we have provided him. He is a professionally sound, hardworking, and devoted staff. He is motivated to take the initiative and we are gratified that he has been helpful in the advancement of our organization.

We wish Hardik all the best in future endeavors.

Note:

This letter has been issued for the purpose of academic project requirements. An internship is not completed yet.

A handwritten signature in black ink, appearing to read 'Rakesh Sarvaiya'.

Thanks & Regards,

Rakesh Sarvaiya
Manager – Talent Acquisition
Casepoint Private Limited



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208-Shivalik Western, Opp. Green Avenue, L P Savani Road, Adajan, Surat-395009, Gujarat, India.
www.casepoint.in | info@casepoint.in | +91-261-2915551 | CIN: U72900GJ2012PTC072588

Internship Letter – Nainsi



Date: 14-Apr-2023

To whomsoever it may concern

This is to certify that **Nainsi Sangani** is doing an **Internship** at Casepoint Pvt. Ltd. from **2nd January 2023** to **till date**.

Project Name: **Patient Doctor Video Call Management System- MediPulse**

During this tenure, we found that she has worked with dedication. We found Nainsi active in whatever task we have provided her. She is a professionally sound, hardworking, and devoted staff. She is motivated to take the initiative and we are gratified that she has been helpful in the advancement of our organization.

We wish Nainsi all the best in future endeavors.

Note:

This letter has been issued for the purpose of academic project requirements. An internship is not completed yet.

A handwritten signature in black ink, appearing to read "Rakesh Sarvaiya", on a light gray rectangular background.

Thanks & Regards,

Rakesh Sarvaiya
Manager – Talent Acquisition
Casepoint Private Limited



NDC Certificate - Hardik



Date: 08- Feb- 2023

Non-Disclosure Certificate

To,
Placement Department,
Sarvajanik College of Engineering & Technology

This is to certify that **Hardik Kathiriya** the student from the **Sarvajanik College of Engineering & Technology** is associated with Casepoint Pvt. Ltd as an Intern.

The below information is confidential by the Intern while submitting the Project:

1. Any scientific or technical information, invention, design, process, procedure, formula, improvement, technology, or method.
2. Any concepts, data, photographs, development tools, specifications, software programs, source code, and databases.
3. Any other information which is related to the organization is completely confidential.

A handwritten signature in black ink, appearing to read 'RKS', on a light gray rectangular background.

Regards,
Rakesh Sarvaiya
Manager – Talent Acquisition
Casepoint Pvt. Ltd., Surat



NDC Certificate – Nainsi



Date: 08- Feb- 2023

Non-Disclosure Certificate

To,
Placement Department,
Sarvajanik College of Engineering & Technology

This is to certify that **Nainsi Sangani** the student from the **Sarvajanik College of Engineering & Technology** is associated with Casepoint Pvt. Ltd as an Intern.

The below information is confidential by the Intern while submitting the Project:

1. Any scientific or technical information, invention, design, process, procedure, formula, improvement, technology, or method.
2. Any concepts, data, photographs, development tools, specifications, software programs, source code, and databases.
3. Any other information which is related to the organization is completely confidential.

A handwritten signature in black ink, appearing to read 'RS', is placed within a light gray rectangular box.

Regards,
Rakesh Sarvaiya
Manager – Talent Acquisition
Casepoint Pvt. Ltd., Surat



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1. INTRODUCTION

The aim of this Project is to develop a web application that provides a useful tool to provide curated information and care, enabling people to make better healthcare decisions.

The idea is that both patients and doctors will use this Application for exchanging useful information and thus reduce the time and money.

Targeted independent healthcare professionals across cities and small towns who were often oversubscribed and lacked sophisticated resources. It created a SaaS product for doctors to easily organize appointments, track past medical records and provide a prescription. The platform enabled doctors to save valuable time, establish their presence or grow their business and engage more meaningfully with patients than ever before.

TECHNOLOGIES:

- **Front-end:** KendoUI, HTML5, CSS, JS/jQuery
- **Back-end:** C#, .Net MVC
- **Database:** PostgreSQL
- **Redis and RabbitMQ** to implement notifications
- **Agile methodology** with **Scrum framework** is used to implement the project in step-by-step manner with the help of sprints.

1.1 Existing System

Patient Doctor Video Call Management System. This Project will be developed for patients and doctors to manage their appointments online.

In this COVID pandemic where everything is going online, this application will be useful for the patients and doctors and patients can consult the doctor online for their concern.

First Patients and doctors both need to register themselves in this portal and then patients can search for a doctor and make appointments on the available time slot. Doctor can approve the appointment following which the patient will receive a google meet link to join with the doctor online.

Patients can also provide feedback ratings to doctors after consultation.

Login & Registration

To perform any task in the system, patients and doctors both first need to register themselves into the system. After successful registration confirmation mail will be sent to the registered mailId.

Registered candidates can login to the system using registered credentials and perform the tasks.

Profile Management

Registered candidates manage their profile, edit details and can change their password if required.

Patient - Find Doctor

In this module patients can search for the doctor related to their concern. List of all the available doctors with their details like name, specialization, years of experience, fee etc. will be displayed to the patient. Patients can then book an appointment with the doctor. Patients can see all their booked appointment history in the dashboard and can rate the doctor once consultation is finished.

Doctor Module

In this module doctors can check past and upcoming appointments. Can approve the upcoming appointments and after approval mail with the G-meet link will be sent to both doctor and patient.

1.2 Need for the New System

The System must contain two role Doctor and Patients. Medi-pulse Have all access In Doctor and Patients Panels.

1.3 Objective of the New System

The major objective is Patients can easily find the doctor; provide a good doctor. And provide a good and smooth running web.

1.4 Problem Definition

- In recent times, due to Corona, It is infective to visit the Clinic and Hospitals for Few Health Issues that requires the Basis & intermediate Diagnosis.
- Physical appointments consume more time.
- Time consumption
- Editing and maintenance of data is tedious as well as costly.
- Retrieval of data is time consuming.
- Backup of data is not possible because all data is stored in hard copy.

1.5 Core Components

Doctor:

- Registration
- Login
- Update Profile
- Change Password
- Check Appointment
- Accept/Decline Appointment Request
- Upload/View Prescriptions

Patient:

- Registration
- Login
- Update Profile
- Change Password
- Find Doctor
- Appointment Status
- Upload/View Prescriptions

1.6 Project Profile

Project Title:	Patient And Doctor Video Call Management System
Project Definition:	Developed for patients and doctors to manage their appointments online
Fronted	KendoUI
Backend	C# , .Net MVC , PostgreSQL
Others	Visual Studio 2015
Enrollment Number	ET21MTCA035 ET21MTCA083
Company Name	Caspoint Pvt.Ltd
Company Address	Shivalik Western Complex, LP Savani Rd, TGB, Adajan Gam, Adajan, Surat, Gujarat 395009
Team Member	02
Team Member Name	NAINSI SANGANI HARDIK KATHIRIYA
External Guide	Mr.Kailash Patil
Internal Guide	Prof. Prashant Keswani
Submitted To	Prof. Prashant Keswani

1.7 Assumptions and Constraints

1.7.1 Assumptions:

We will provide a friendly interface so that any user can easily navigate through the system, but he/she should be capable of providing a login name and password that has been provided to them by the administrator. The local server used for data storing is always secured (i.e. Database File). Each and every Teacher can access the system using the same account and password so assumed to have no different tasks.

1.7.2 Constraints

Hardware Constraints:

For better use of Visual Studio, PostgreSQL, Ram must be of 1 or more GB as mentioned in Hardware Requirements. (For Developers).

Reliability Constraints:

Validation is the main reliability requirement that is used in the system. Without proper validation, the system does not allow login in the system.

Safety Constraints:

If the use of this system is done by someone who is unauthorized but can access this system using valid authentication then he or she could be able to change any important data from the database.

1.8 Advantages and Limitations of the Proposed System

Proposed System:

Using this System easily takes treatment of rural area people. And on the other hand, we want to extend this service worldwide. Like anyone who wants to take an appointment with a USA doctor then he or she can be using this system than can easily be taking an appointment.

Advantages:

- Appointment Booking: Anytime Anywhere
- Organize your schedule better
- Access appointments on your computer, laptop
- Integration with a payment gateway
- Multiple locations and multiple doctors
- It Saves Time for Patient and Doctor
- Everything is Going Online

Limitations:

- Currently our application provides consultation through google meet only.
- Application available in the form of web application.
- The device must have internet connection.

2. Requirement Determination & Analysis

2.1 Requirement Determination

Technology Used	Visual Studio Software to implement our project.
Front-end	KendoUI
Back-end	C#, .NET MVC
Database	PostgreSQL
notifications	Redis and RabbitMQ to implement notifications.

Minimum And Maximum Software/Hardware Requirements

Hardware Specification

Device Name	DELL
Processor	AMD Ryzen 5 2500U with Radeon Vega Mobile GFX 2.00 GHz
Hard Disk	1TB
Installed RAM	8.00 GB
System type	64-bit operating system, x64-based processor

Software Specification

Operating System	Windows 10 or above
Tools	Visual Studio 2015 or above
Other	.NET Framework, PostgreSQL, Redis, RabbitMQ

2.2 Targeted Users

Patient :

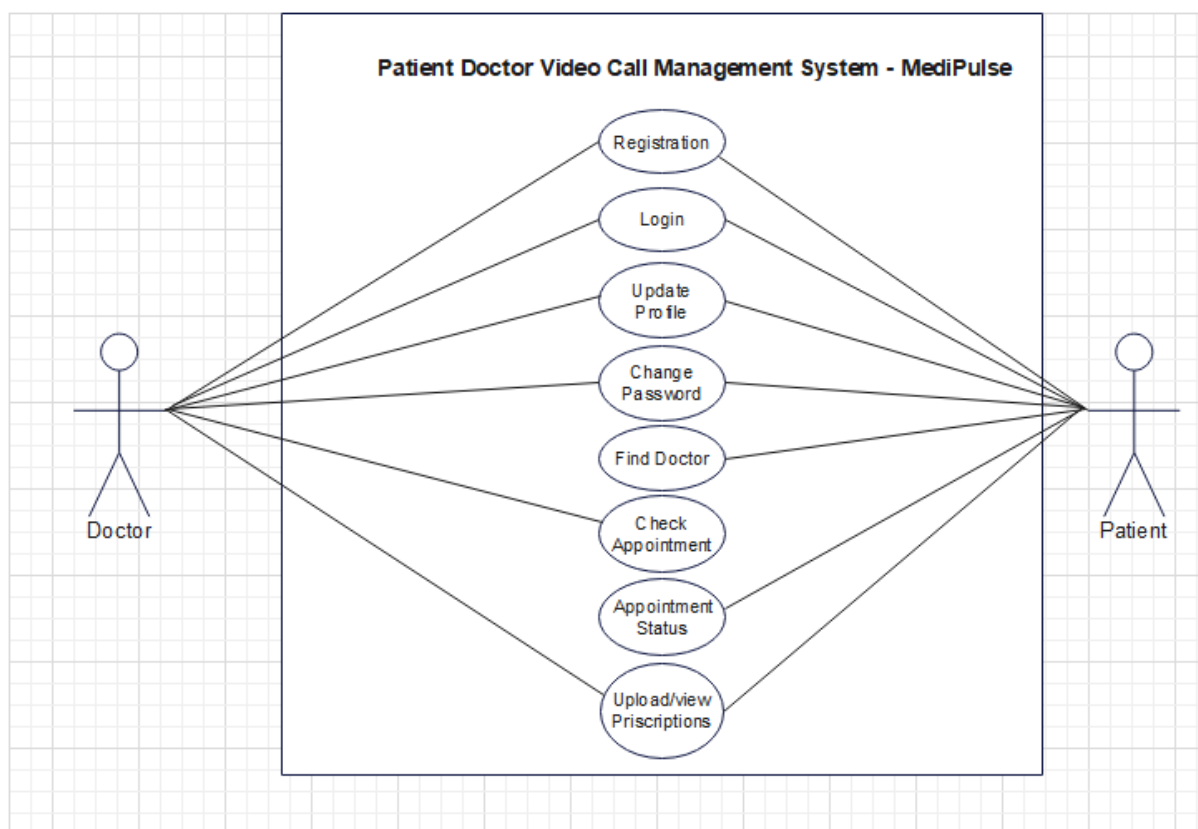
In this module patients can search for the doctor related to their concern. List of all the available doctors with their details like name, specialization, years of experience, fee etc. will be displayed to the patient. Patients can then book an appointment with the doctor. Patients can see all their booked appointment history in the dashboard and can rate the doctor once consultation is finished.

Doctor :

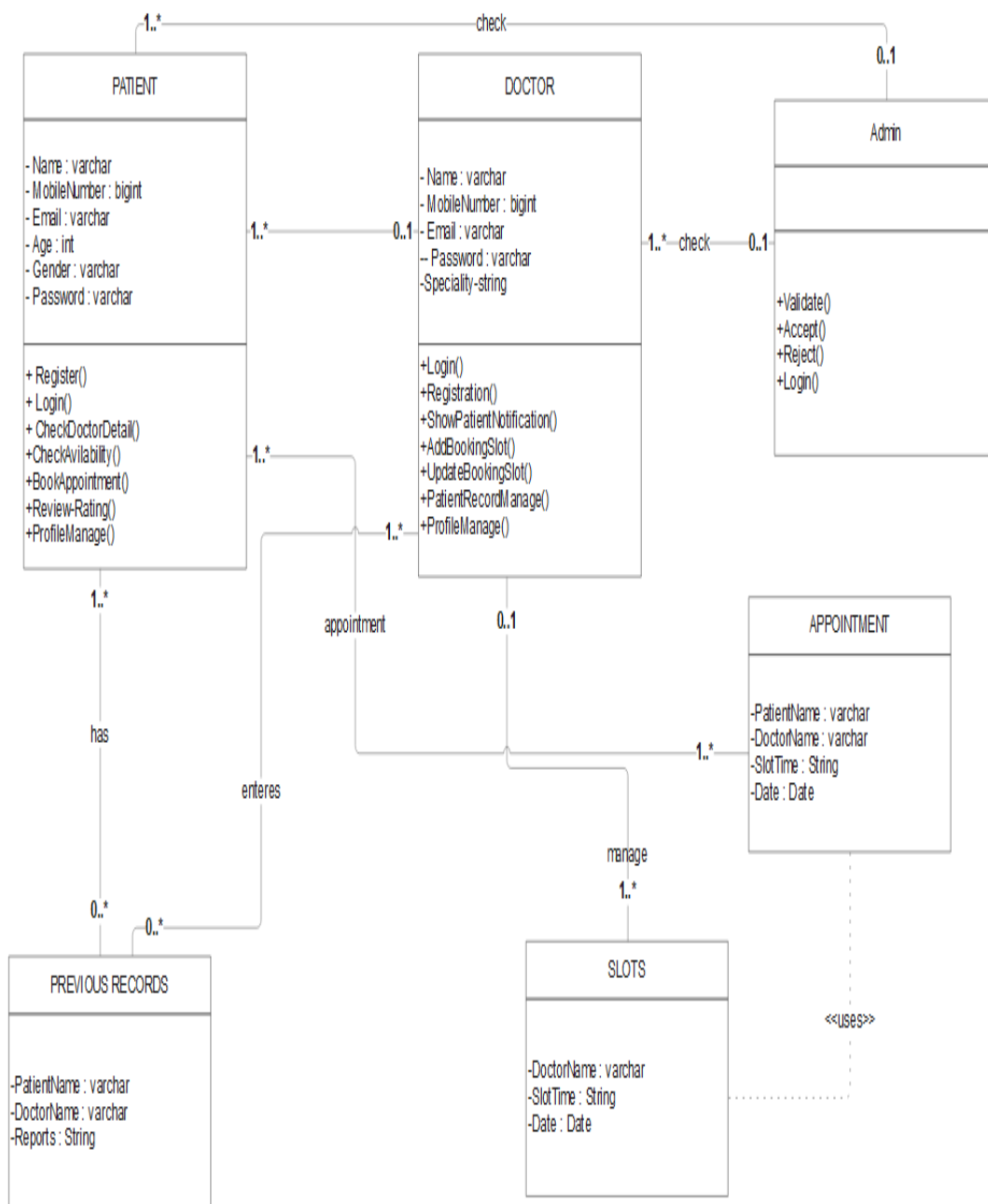
In this module doctors can check past and upcoming appointments. Can approve the upcoming appointments and after approval mail with the gmeet link will be sent to both doctor and patient.

3. System Design

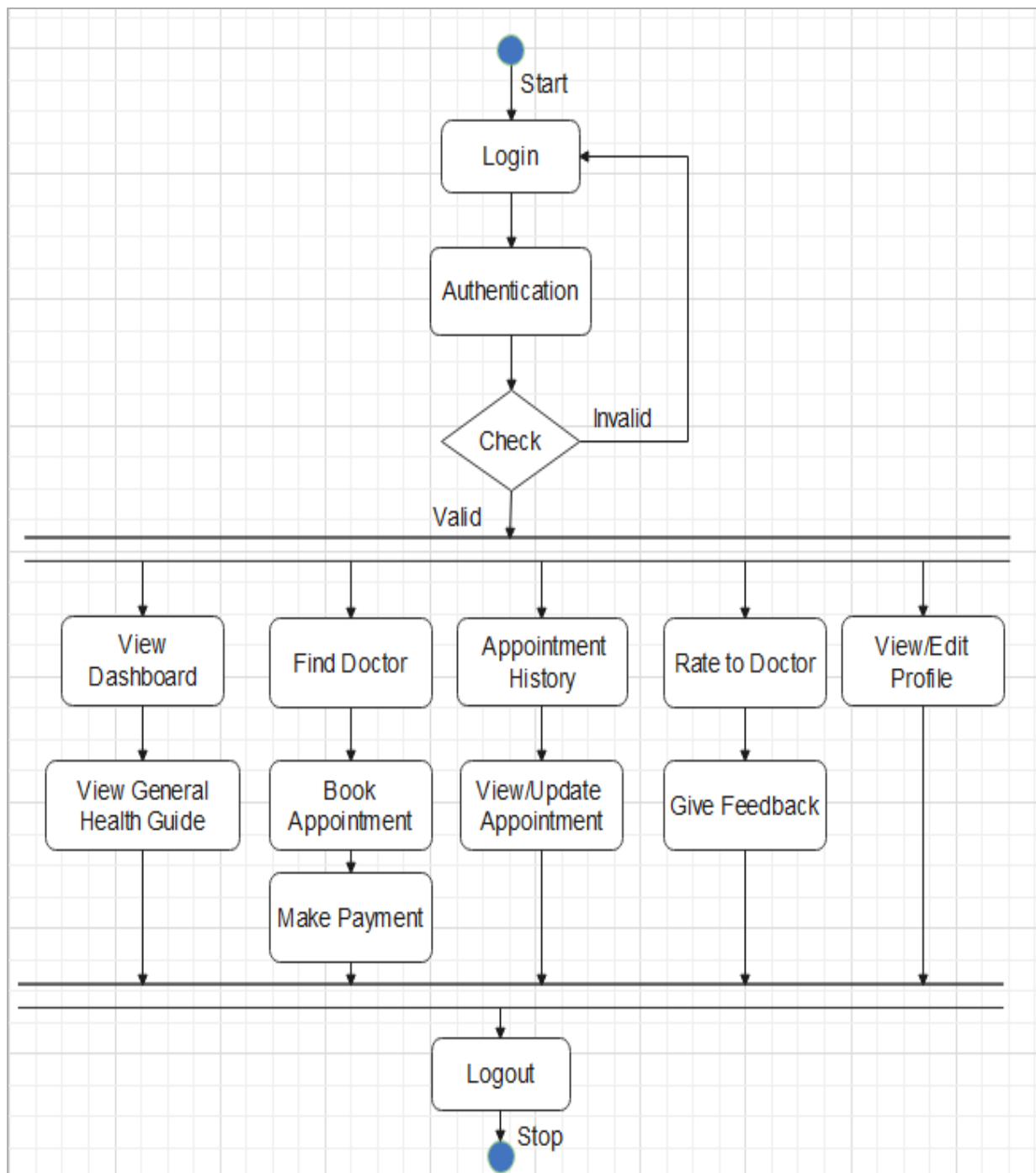
3.1 Use Case Diagram



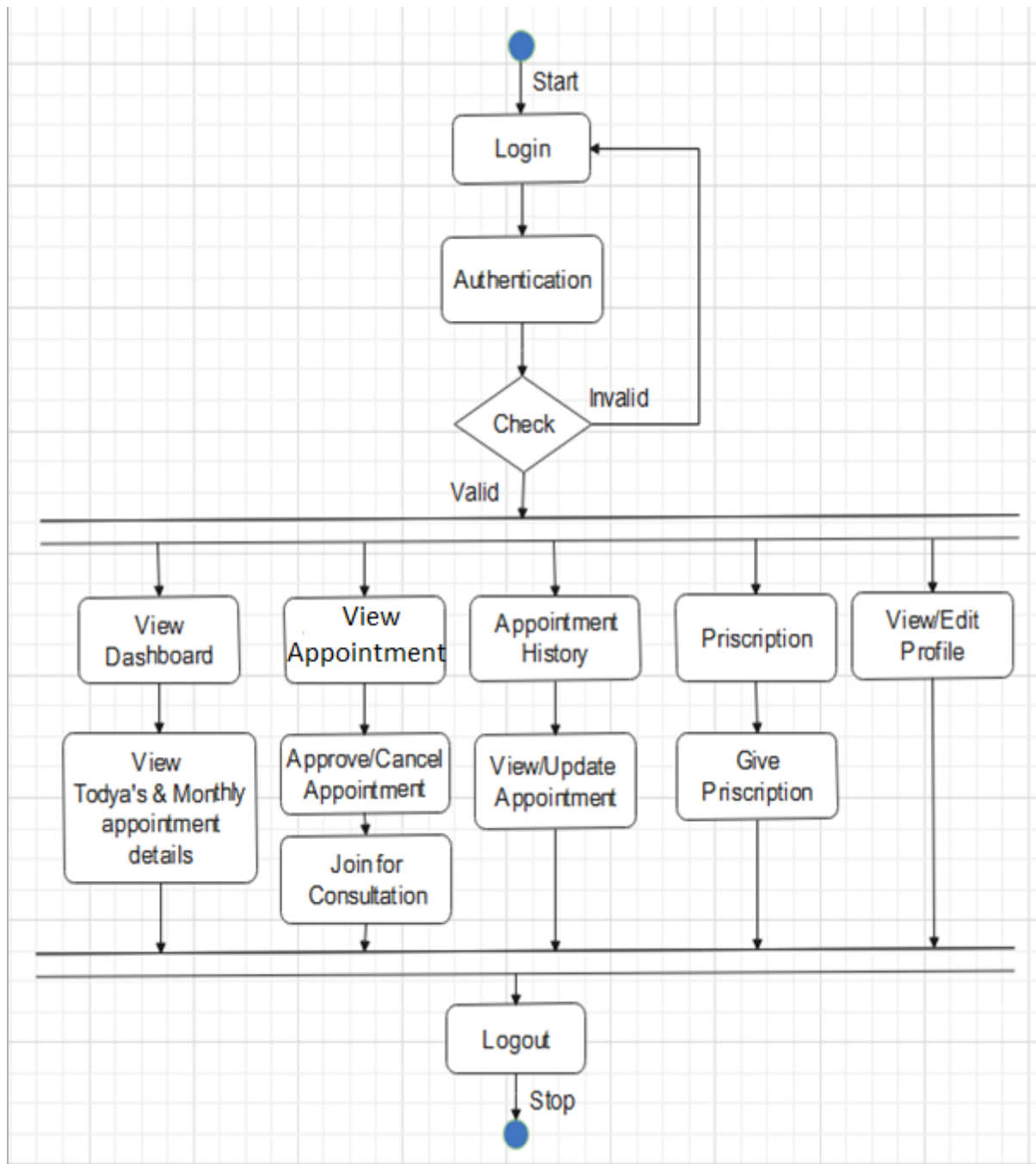
3.2 Class Diagram



3.3 Activity Diagram (patient)



3.3 Activity Diagram (Doctor)



3.4. Data Dictionary

Doctor Table:

Attributes	Datatype	Constraint	Description
c_doctorid	varchar	Primary Key	Doctor Id
c_firstname	varchar	Not Null	First Name
c_lastname	varchar	Not Null	Last Name
c_email	varchar	Not Null	Email
c_password	varchar	Not Null	Password
c_mobilenumber	varchar	Not Null	Mobile Number
c_address	varchar	Not Null	Address
c_qualification	varchar	Not Null	Qualification
c_specilization	varchar	Not Null	Specialization
c_experience	bigint	Not Null	Experience
c_fee	bigint	Not Null	Appointment Fees
c_link	varchar	Not Null	G-Meet Link
c_profileimage	varchar	Not Null	Profile Image
c_token	varchar	Not Null	Token
c_rateper	varchar	Not Null	Rating

Patient Table:

Attributes	Datatype	Constraint	Description
c_patientid	varchar	Primary Key	Patient Id
c_firstname	varchar	Not Null	First Name
c_lastname	varchar	Not Null	Last Name
c_email	varchar	Not Null	Email
c_password	varchar	Not Null	Password
c_mobilenumber	varchar	Not Null	Mobile Number

Appointment Table:

Attributes	Datatype	Constraint	Description
c_aid	varchar	Primary Key	Appointment Id
c_doctorid	varchar	Foreign Key	Doctor Id
c_patientid	varchar	Foreign Key	Patient Id
c_name	varchar	Not Null	Patient Name
c_email	varchar	Not Null	Patient Email
c_address	varchar	Not Null	Patient Address
c_patients	varchar	Not Null	NumberofPatient
c_gender	varchar	Not Null	Patient Gender
c_city	varchar	Not Null	Patient City
c_state	varchar	Not Null	Patient State
c_zip	varchar	Not Null	Zip Code
c_age	varchar	Not Null	Patient Age
c_note	varchar	Not Null	Note
c_date	varchar	Not Null	Appointment Date
c_time	varchar	Not Null	Appointment Time

Rating Table:

Attributes	Datatype	Constraint	Description
c_rid	integer	Primary Key	Rating Id
c_doctorid	integer	Foreign Key	Doctor Id
c_rate	decimal	Not Null	Number of Stars
c_review	varchar	Not Null	Review

Book-Someone Table:

Attributes	Datatype	Constraint	Description
c_sid	integer	Primary Key	Booking Id
c_patientid	integer	Foreign Key	Patient Id
c_name	varchar	Not Null	Name of patient
c_email	varchar	Not Null	Email Id

Dashboard Table:

Attributes	Datatype	Constraint	Description
c_id	integer	Primary Key	Booking Id
c_pimage	vchar	Foreign Key	Patient Id
c_pdescription	vchar	Not Null	Description
c_title	vchar	Not Null	Title
c_status	integer	Not Null	Boolean

Notification Table:

Attributes	Datatype	Constraint	Description
c_id	integer	Primary Key	Id
c_doctorname	vchar	Not Null	Doctor name
c_patientname	vchar	Not Null	Name of patient
c_date	vchar	Not Null	Date

Lab-Report Table:

Attributes	Datatype	Constraint	Description
c_reportid	integer	Primary Key	Id
c_report	vchar	Not Null	Doctor name
c_date	vchar	Not Null	Name of patient
c_time	vchar	Not Null	Date
c_patientid	vchar	Not Null	Patient id
c_doctorid	vchar	Not Null	Doctor id

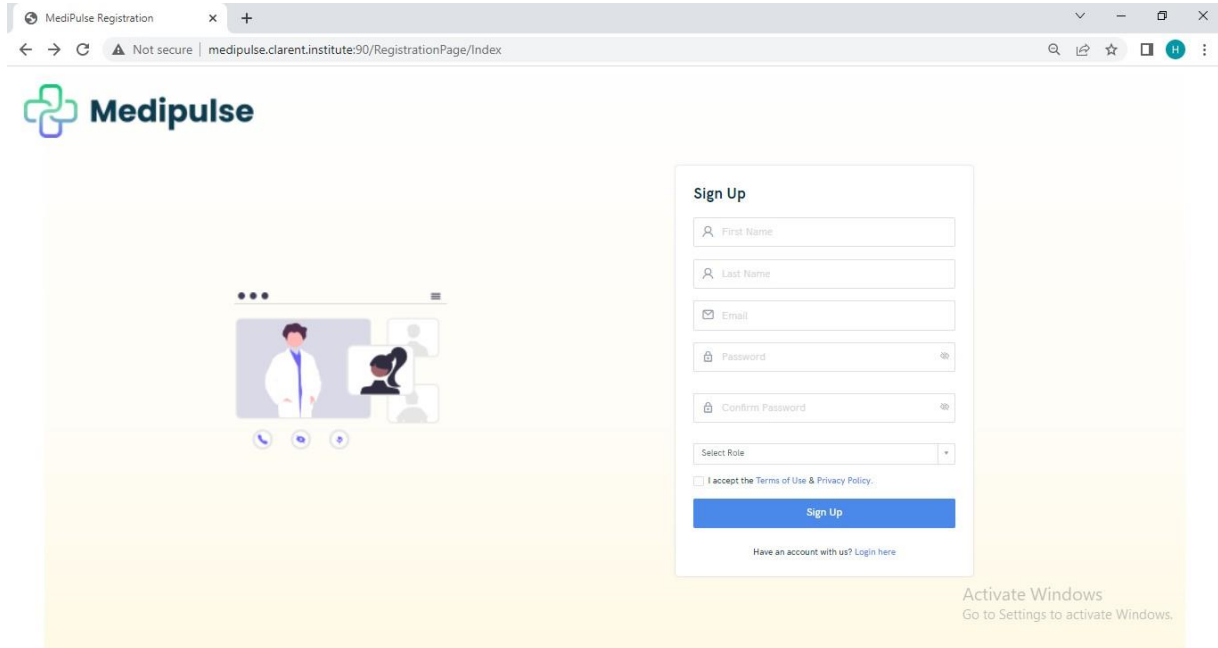
4. Development

4.1 Coding Standards

The coding standard is the well-defined and standard style of coding. With the help of the coding standard any person can go into any code and figure out what's going on and new people can get up to speed quickly. A coding standard sets out standard ways of doing several things such as the way variables are to be named, the code is to be laid out, the comments are to be described, the work of function are to be carried out etc. This section describes the coding standards, which we have used in the program. In the context of coding standards, the tag consists of one to four lower case characters followed by an underscore and is used to indicate the type of an object, control, or variable

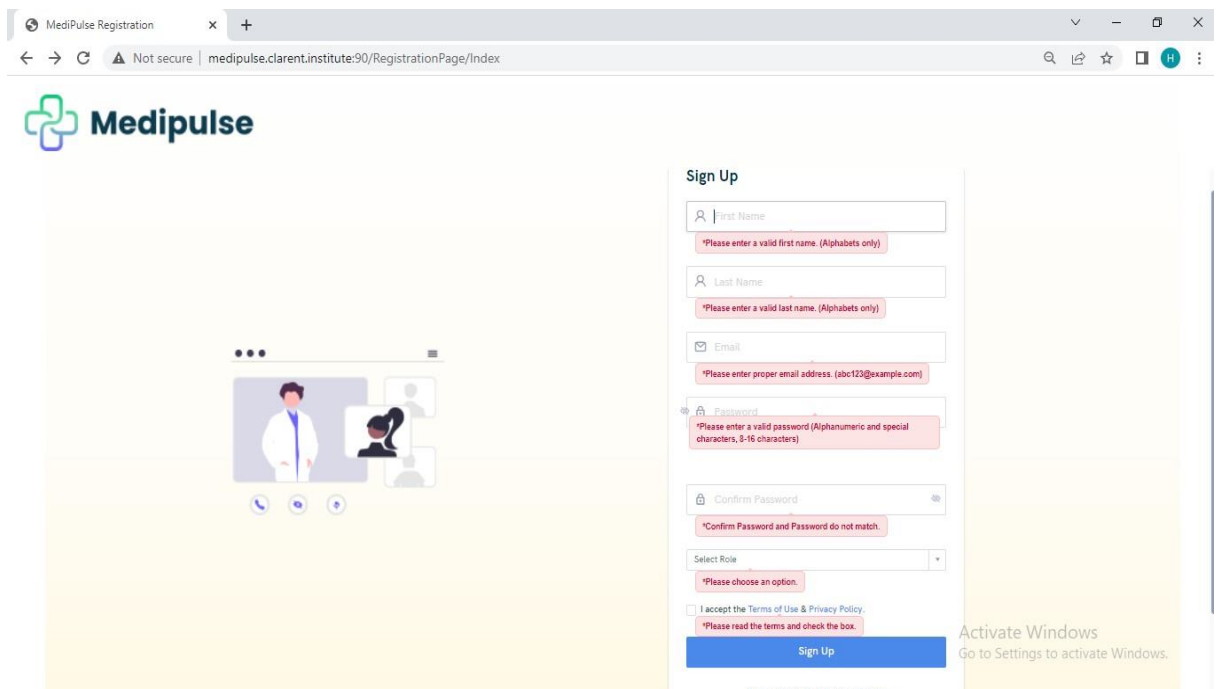
4.2 Screen Shot

4.2.1 SignUP Page



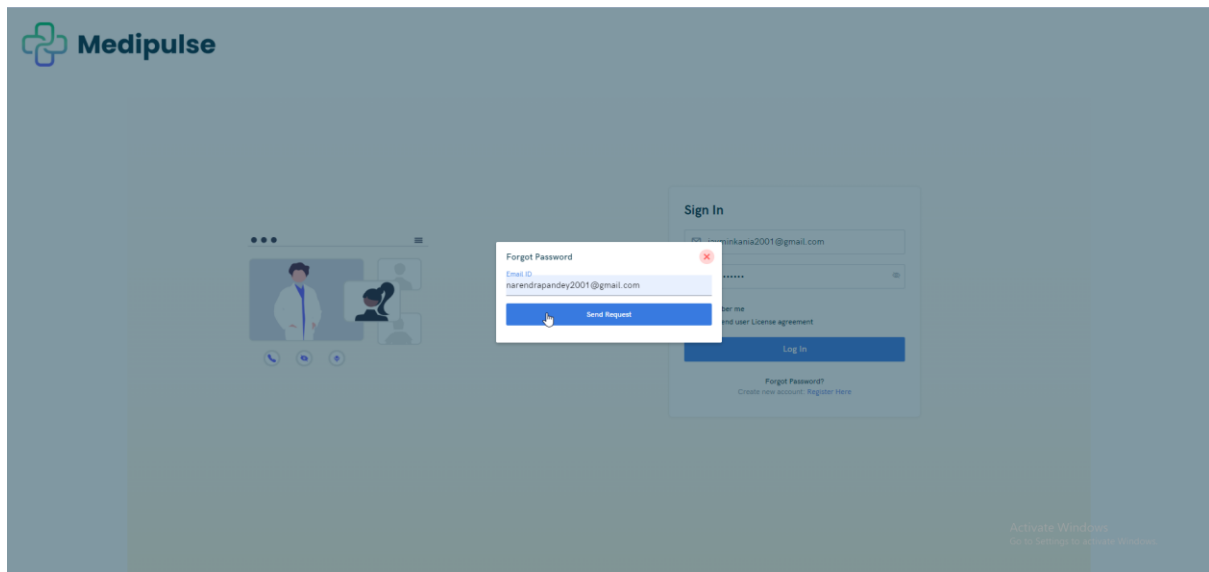
The screenshot shows a web browser window with the address bar displaying "Medipulse Registration" and the URL "medipulse.clarent.institute:90/RegistrationPage/Index". The page features the Medipulse logo on the left. On the right, there is a "Sign Up" form with the following fields: First Name, Last Name, Email, Password, and Confirm Password. Below these fields is a "Select Role" dropdown menu and a checkbox for "I accept the Terms of Use & Privacy Policy". A blue "Sign Up" button is at the bottom of the form. A link "Have an account with us? Login here" is located below the button. The background of the page shows a video call interface with two participants. An "Activate Windows" watermark is visible in the bottom right corner.

4.2.2 Validation For Registration Page

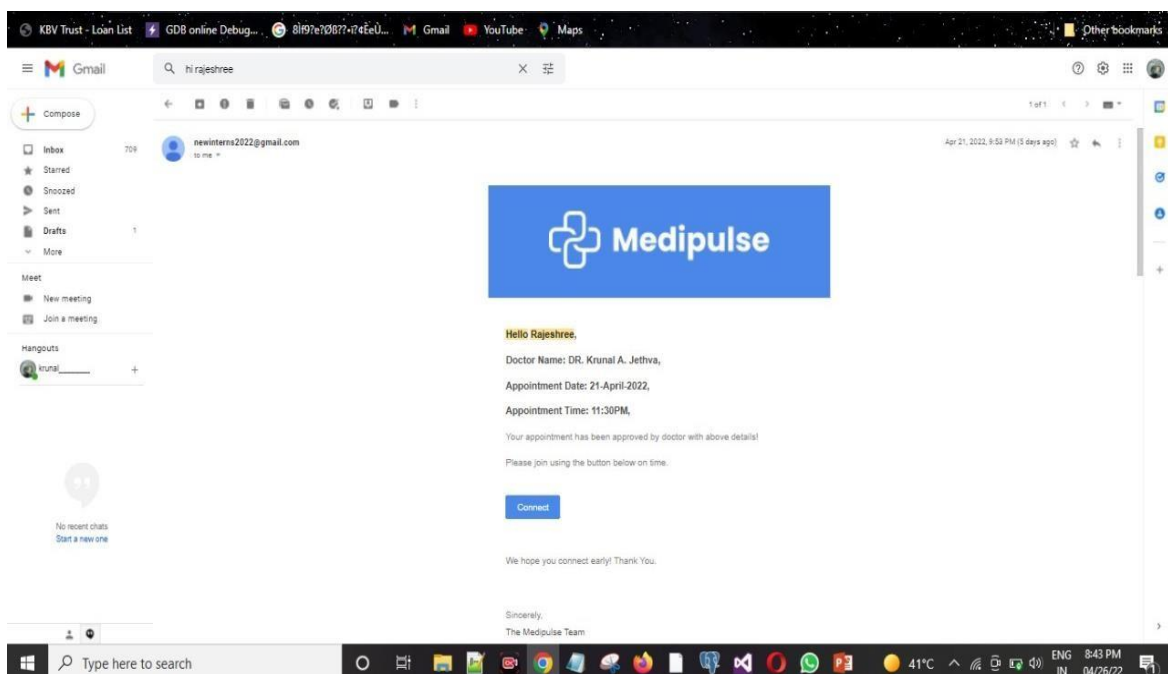


The screenshot shows the same "Sign Up" form as in the previous image, but with validation errors displayed in red text boxes below each field. The errors are: "Please enter a valid first name. (Alphabets only)" for First Name, "Please enter a valid last name. (Alphabets only)" for Last Name, "Please enter proper email address. (abc123@example.com)" for Email, "Please enter a valid password (Alphanumeric and special characters, 8-16 characters)" for Password, "Confirm Password and Password do not match." for Confirm Password, "Please choose an option." for Select Role, and "Please read the terms and check the box." for the Terms of Use & Privacy Policy checkbox. The "Sign Up" button is still visible at the bottom of the form. The background and "Activate Windows" watermark are the same as in the previous image.

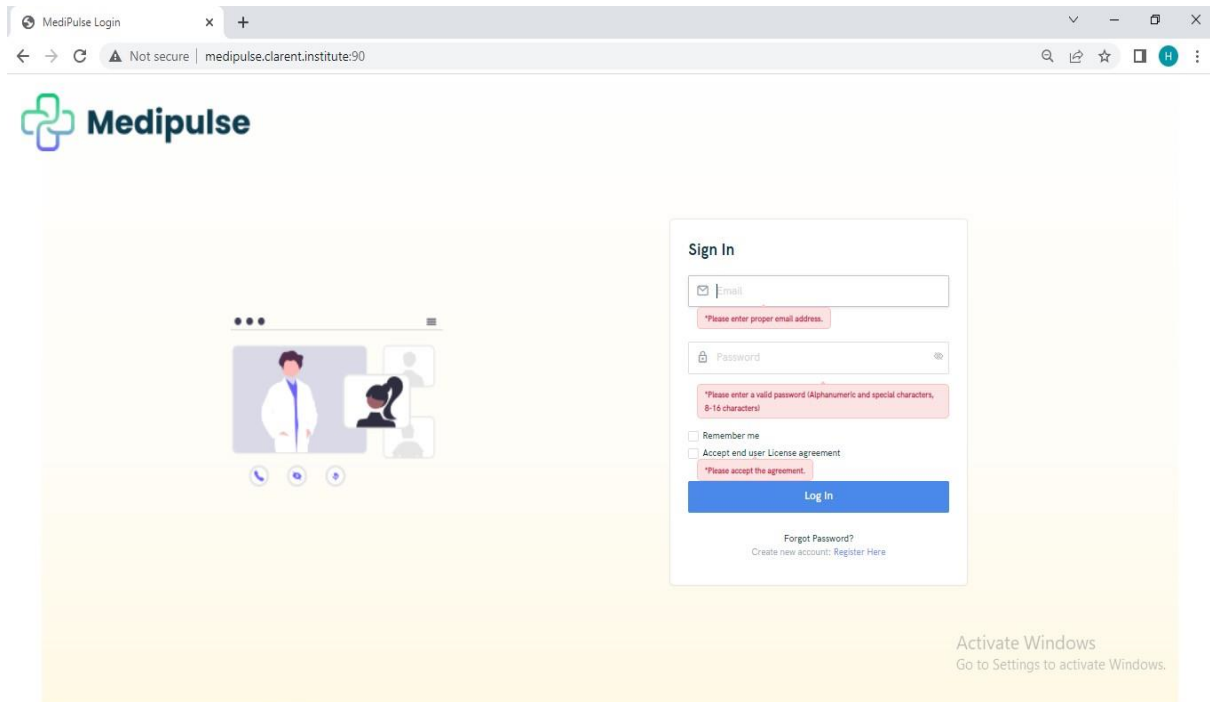
4.2.3 Forget Password



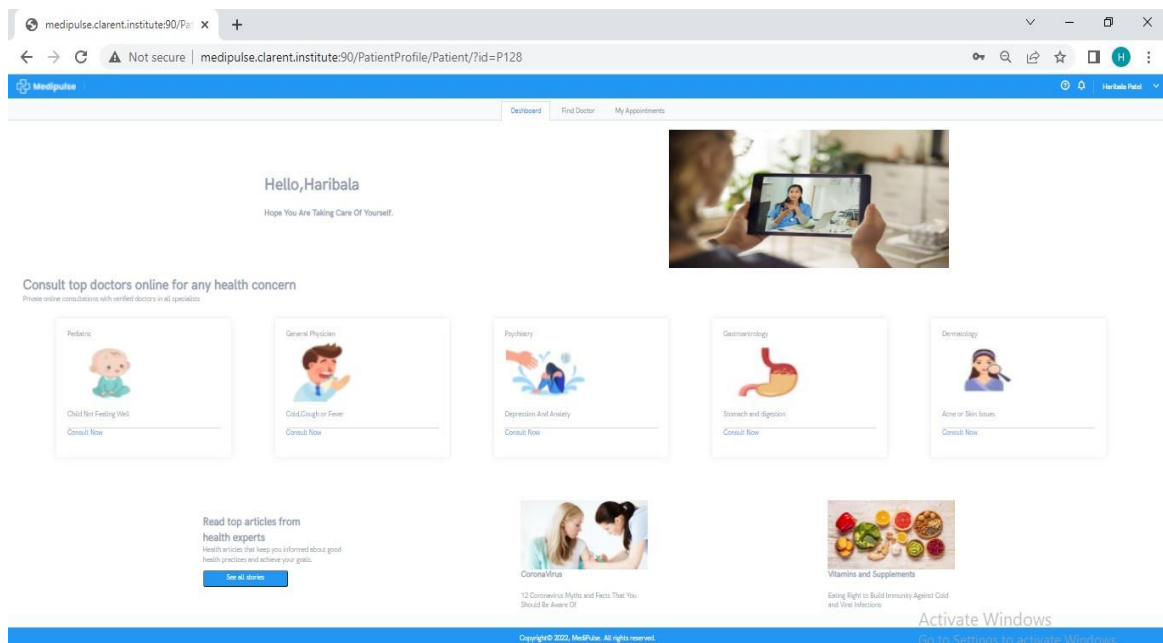
4.2.4 Email Confirmation



4.2.5 Login Page



4.2.6 Patient Dashboard



4.2.7 Find Doctor

medipulse.clarent.institute:90/Pa x +

Not secure | medipulse.clarent.institute:90/PatientProfile/PatientCardView

Medipulse

Dashboard Find Doctor My Appointments

Primary Care Consulting

Q krunal By Location Search

Dr. Krunal Jethva Primary care 100% 7041456644

Specialization Obstetrics and Gynecology

Address Surat

Languages English, Hindi, Gujarati

Consultant Fee 500

Book Appointment

Dr. Krunal Jethva Primary care 90% 7041456644

Specialization Dermatology

Address Jagruti nagar

Languages Kathiyavadi, English, Hindi

Consultant Fee 50

Book Appointment

Prev 1 Next

Activate Windows
Go to Settings to activate Windows.

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4.2.8 Book Appointment (Self)

medipulse.clarent.institute:90/A; x +

Not secure | medipulse.clarent.institute:90/AppointmentPage/Appointment?doctorid=D119

Medipulse

Dashboard Find Doctor My Appointments

Appointment Details

Booking Appointment

Book for?*

Me

Full Name*

Haribata Patel

Your Email*

haribata199@gmail.com

Address*

Surat

Patient Type*

New

Gender*

Male

City*

Surat

State*

Gujarat

Zip*

567867

Age*

21

Note to Doctor

Explain your issue (250 words)

Krunal Jethva Primary care 90% 7041456644

Service Dermatology

Booking Summary

Date*

05-01-2022

Time*

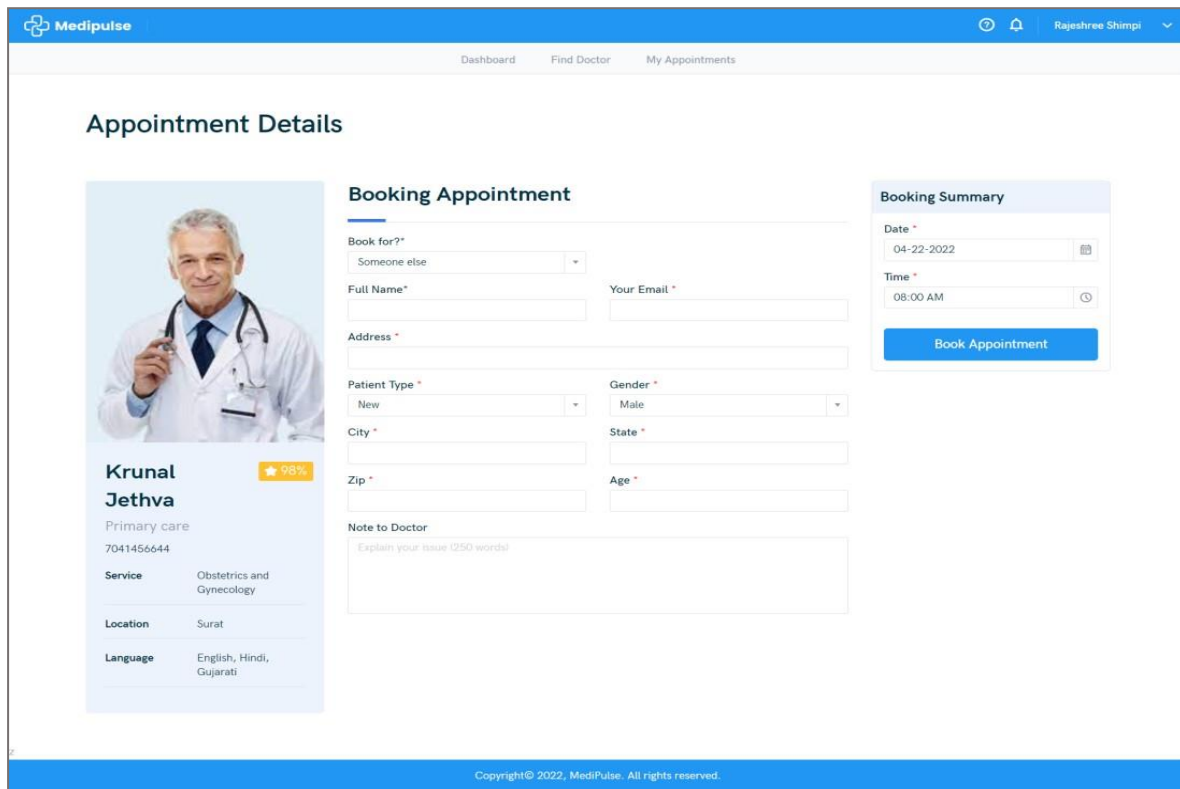
01:30 PM

Book Appointment

Activate Windows
Go to Settings to activate Windows.

Prev 1 Next

4.2.9 Book Appointment (Others)



Appointment Details

Booking Appointment

Book for? Someone else

Full Name* Your Email*

Address*

Patient Type* New Gender* Male

City* State*

Zip* Age*

Note to Doctor
Explain your issue (250 words)

Booking Summary

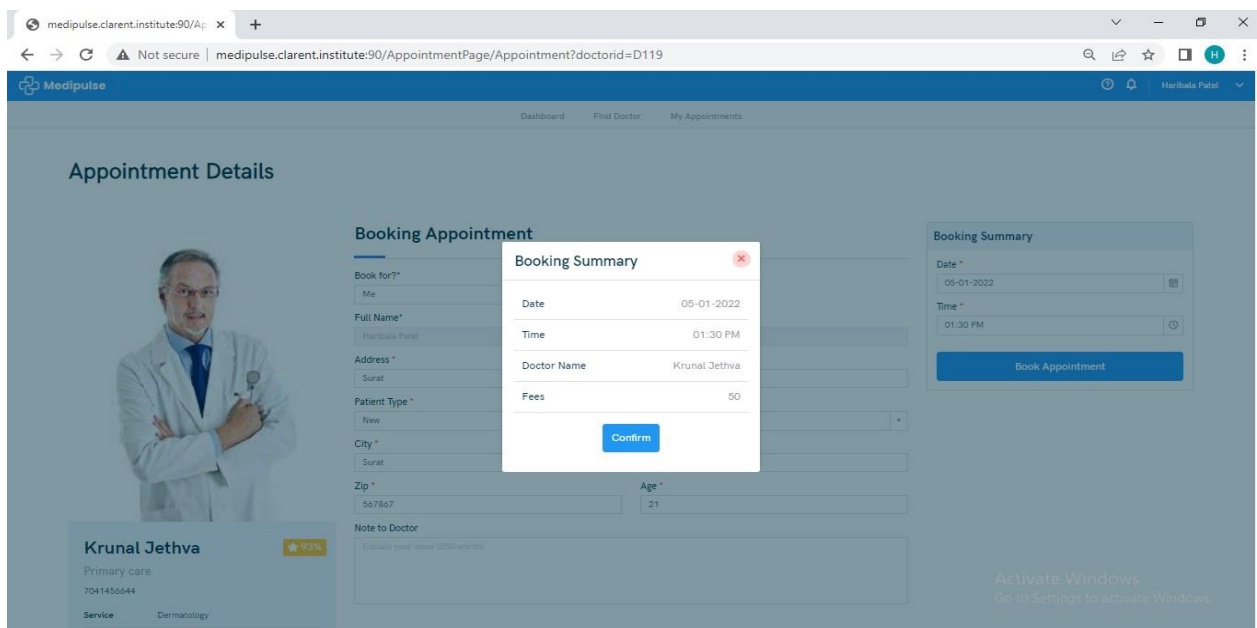
Date* 04-22-2022

Time* 08:00 AM

Book Appointment

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4.2.10 Booking Summary



Booking Summary

Date 05-01-2022

Time 01:30 PM

Doctor Name Krunal Jethva

Fees 50

Confirm

Appointment Details

Booking Appointment

Book for? Me

Full Name* Haribala Patel

Address* Surat

Patient Type* New

City* Surat

Zip* 567867 Age* 21

Note to Doctor
Explain your issue (250 words)

Booking Summary

Date* 05-01-2022

Time* 01:30 PM

Book Appointment

Activate Windows
Go to Settings to activate Windows.

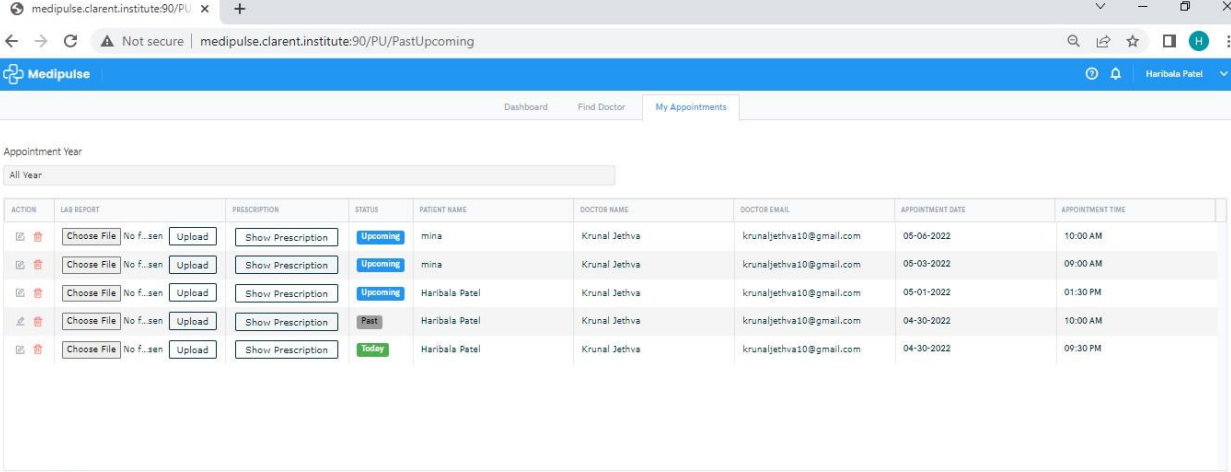
4.2.11 Booking Confirmation Page

The screenshot displays the 'Appointment Details' section of the Medipulse application. On the left, a doctor's profile for Krunal Jethva is shown, including a photo, name, primary care status, service (Obstetrics and Gynecology), location (Surat), and language (English, Hindi, Gujarati). The main area is titled 'Booking Appointment' and contains a form with fields for 'Book for?' (Me), 'Full Name' (Rajeshree Shimpi), 'Your Email' (anshree21@gmail.com), 'Address' (Parvat Patiya), 'Patient Type' (New), 'City' (Surat), 'Zip' (415263), and 'Note to Doctor'. A 'Booking Summary' sidebar on the right shows the 'Date' (04-20-2022) and 'Time' (10:52 PM), with a 'Book Appointment' button. A modal window in the center displays a 'Thank You!' message: 'Information has been successfully sent to the doctor.' A green success message at the bottom right states: 'SUCCESS! The action has been performed successfully.'

4.2.12 Validation

This screenshot shows the same 'Appointment Details' page as the previous one, but with a validation error. The 'Booking Summary' sidebar now displays a red error message: 'Please select another time. Appointment is already booked on this date on same time.' The 'Book Appointment' button is still visible. The rest of the page, including the doctor's profile and the booking form, remains the same.

4.2.13 View Your Appointments



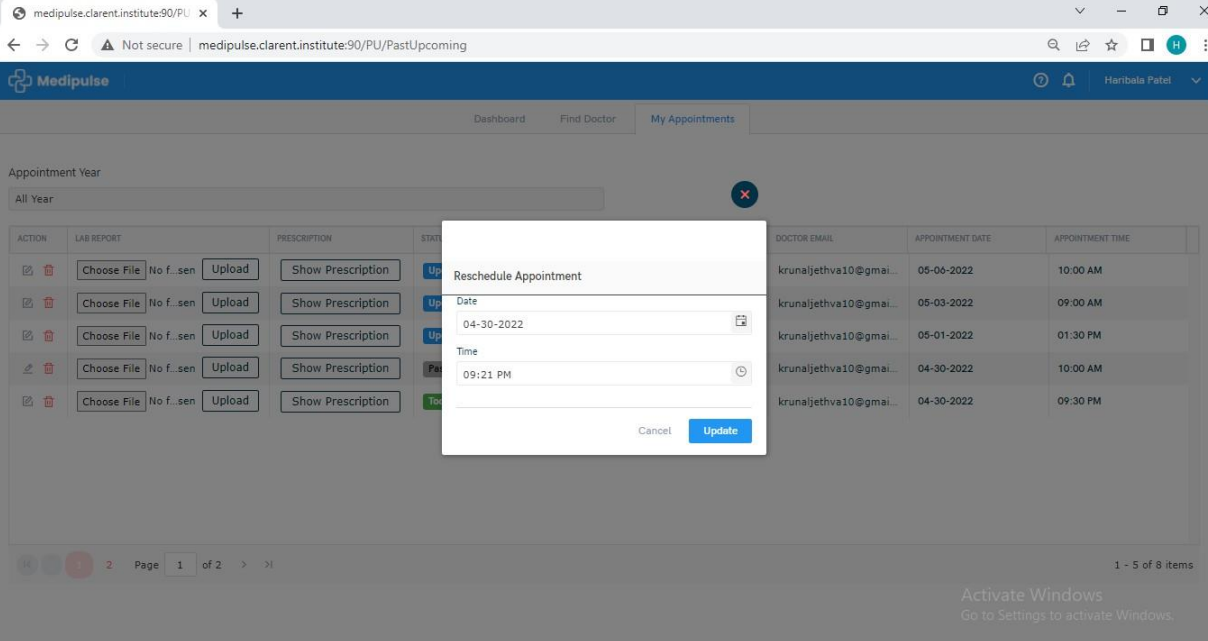
Appointment Year
All Year

ACTION	LAB REPORT	PRESCRIPTION	STATUS	PATIENT NAME	DOCTOR NAME	DOCTOR EMAIL	APPOINTMENT DATE	APPOINTMENT TIME
	Choose File No f..sen Upload	Show Prescription	Upcoming	mina	Krunal Jethva	krunaljethva10@gmail.com	05-06-2022	10:00 AM
	Choose File No f..sen Upload	Show Prescription	Upcoming	mina	Krunal Jethva	krunaljethva10@gmail.com	05-03-2022	09:00 AM
	Choose File No f..sen Upload	Show Prescription	Upcoming	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	05-01-2022	01:30 PM
	Choose File No f..sen Upload	Show Prescription	Past	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	04-30-2022	10:00 AM
	Choose File No f..sen Upload	Show Prescription	Today	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	04-30-2022	09:30 PM

1 - 5 of 8 items

Activate Windows
Go to Settings to activate Windows.

4.2.14 Reschedule Appointment



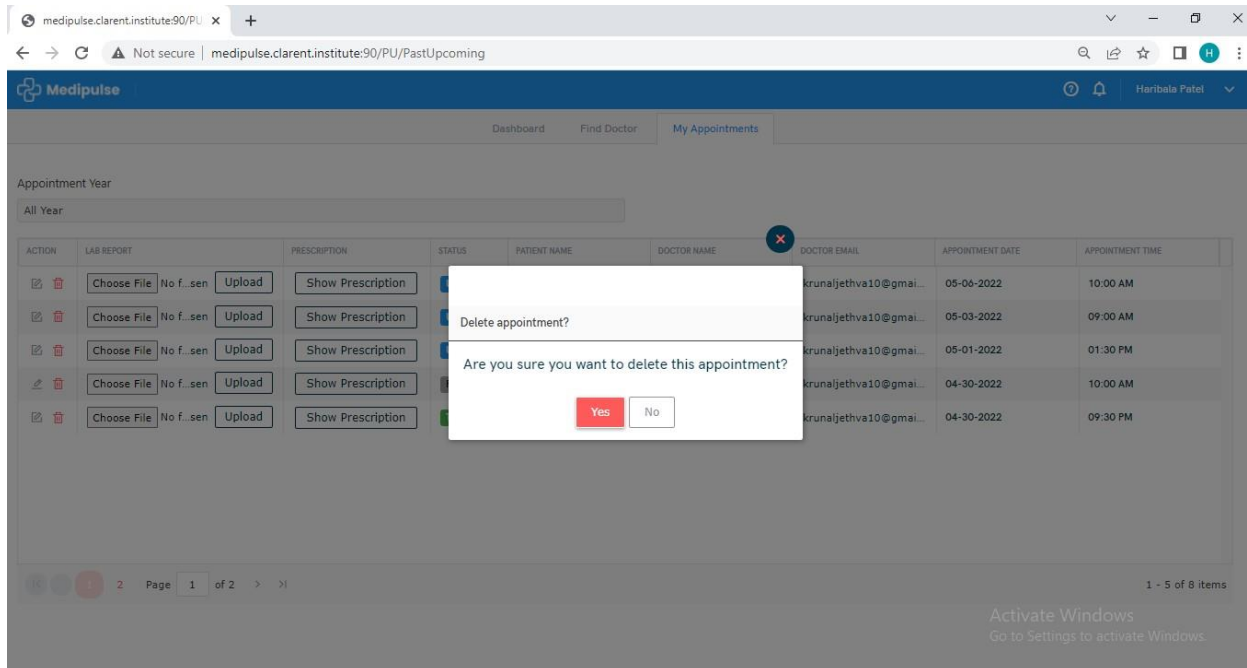
Appointment Year
All Year

ACTION	LAB REPORT	PRESCRIPTION	STATUS	PATIENT NAME	DOCTOR NAME	DOCTOR EMAIL	APPOINTMENT DATE	APPOINTMENT TIME
	Choose File No f..sen Upload	Show Prescription	Upcoming	mina	Krunal Jethva	krunaljethva10@gmail.com	05-06-2022	10:00 AM
	Choose File No f..sen Upload	Show Prescription	Upcoming	mina	Krunal Jethva	krunaljethva10@gmail.com	05-03-2022	09:00 AM
	Choose File No f..sen Upload	Show Prescription	Upcoming	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	05-01-2022	01:30 PM
	Choose File No f..sen Upload	Show Prescription	Past	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	04-30-2022	10:00 AM
	Choose File No f..sen Upload	Show Prescription	Today	Haribala Patel	Krunal Jethva	krunaljethva10@gmail.com	04-30-2022	09:30 PM

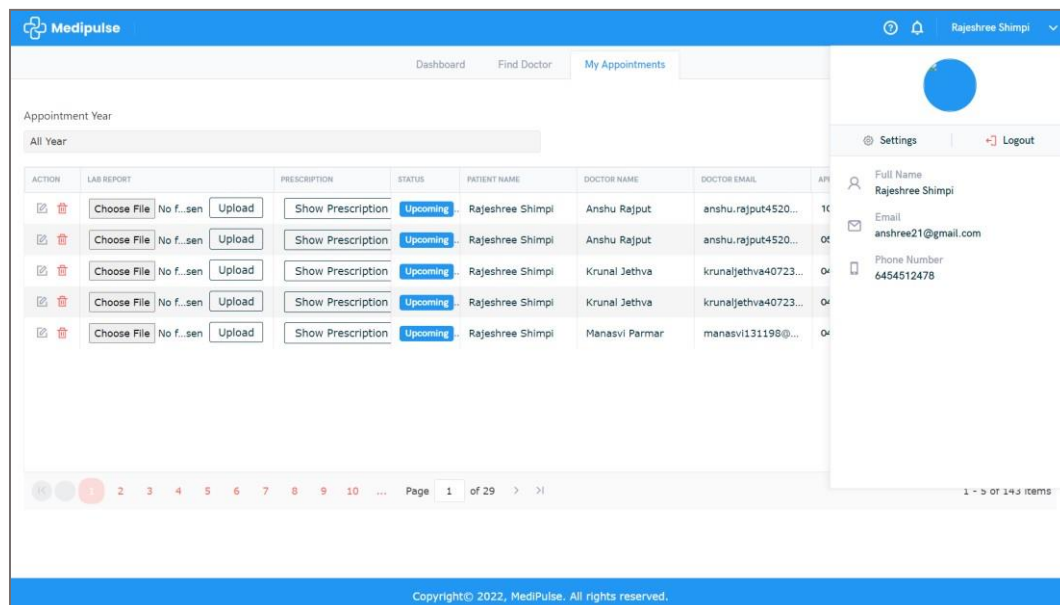
1 - 5 of 8 items

Activate Windows
Go to Settings to activate Windows.

4.2.15 Cancel appointment



4.2.16 User Profile (Patient)



4.2.17 Edit profile

Medipulse

Dashboard Find Doctor My Appointments

Appointment Year

All Year

ACTION	LAB REPORT	PRESCRIPTION	STATUS	PATIENT NAME	DOCTOR NAME	DOCTOR EMAIL	APR
	<input type="button" value="Choose File"/> No f...sen <input type="button" value="Upload"/>	<input type="button" value="Show Prescription"/>	Upcoming	Rajeshree Shimpi	Anshu Rajput	anshu.rajp4520...	10
	<input type="button" value="Choose File"/> No f...sen <input type="button" value="Upload"/>	<input type="button" value="Show Prescription"/>	Upcoming	Rajeshree Shimpi	Anshu Rajput	anshu.rajp4520...	06
	<input type="button" value="Choose File"/> No f...sen <input type="button" value="Upload"/>	<input type="button" value="Show Prescription"/>	Upcoming	Rajeshree Shimpi	Krunal Jethva	krunaljethva40723...	04
	<input type="button" value="Choose File"/> No f...sen <input type="button" value="Upload"/>	<input type="button" value="Show Prescription"/>	Upcoming	Rajeshree Shimpi	Krunal Jethva	krunaljethva40723...	04
	<input type="button" value="Choose File"/> No f...sen <input type="button" value="Upload"/>	<input type="button" value="Show Prescription"/>	Upcoming	Rajeshree Shimpi	Manasvi Parmar	manasvi131198@...	04

Settings Logout

Full Name
Rajeshree Shimpi

Email
anshree21@gmail.com

Phone Number
6454512478

Page 1 of 29

1 - 5 of 143 items

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4.2.18 Doctor Dashboard

Medipulse

Dashboard My Appointments

Total Appointments
303

Total Patients
6

Total Revenue
350000

Today Appointments

Rajeshree Shimpi
03:07 PM
Prescription

Rajeshree Shimpi
11:30 PM
Join

Total Consultations

Total Appointments

Date

Today < > April, 2022

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

27 28 29 30 31 01 02

03 04 05 06 07 08 09

10 11 12 13 14 15 16

17 18 19 20 21 22 23

24 25 26 27 28 29 30

01 02 03 04 05 06 07

Appointment Request

krunal jethva
Date 15-04-2022
Time 12:57 AM
Approve Cancel

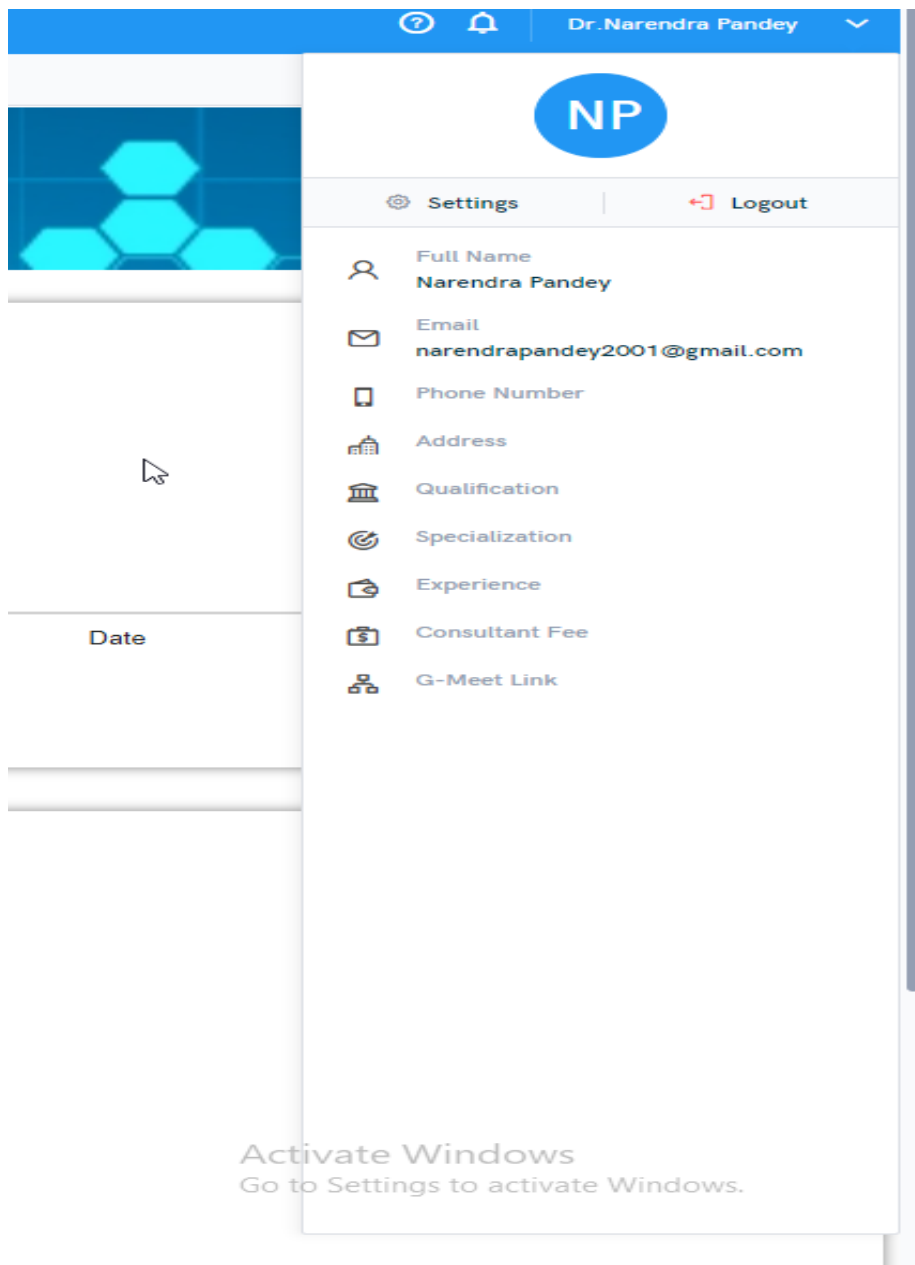
krunal jethva
Date 15-04-2022
Time 12:57 AM
Approve Cancel

krunal jethva
Date 15-04-2022
Time 12:06 AM
Approve Cancel

krunal jethva
Date 15-04-2022
Time 01:30 AM
Approve Cancel

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4.2.19 User Profile (Doctor)



4.2.20 Cancel Appointment

The screenshot displays the Medipulse dashboard with the following components:

- Dashboard Metrics:**
 - Total Appointments: 303
 - Total Patients: 6
 - Total Revenue: 350000
- Today Appointments:**
 - Rajeshree Shimpi (03:07 PM) - Prescription
 - Rajeshree Shimpi (11:30 PM) - Join
- Total Consultations:** A bar chart showing the number of consultations per date from April 20 to April 26, 2022.
- Appointment Calendar:** A monthly view for April 2022 showing appointments for various doctors including Krunal Jethva, Rajeshree, and Haribala Patel.
- Appointment Request:** A list of appointment requests for Krunal Jethva, each with 'Approve' and 'Cancel' buttons.
- Cancel Confirmation:** A modal dialog box asking 'Cancel Appointment? Are you sure you want to cancel this appointment?' with 'Yes' and 'No' buttons.

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4.2.21 Calendar

The screenshot displays the Medipulse dashboard with the following components:

- Appointment Calendar:** A monthly view for April 2022 showing appointments for various doctors including Krunal Jethva, Rajeshree, and Haribala Patel. A specific appointment for Rajeshree Shimpi on April 17th is highlighted with a detailed view.
- Appointment Request:** A list of appointment requests for Krunal Jethva, each with 'Approve' and 'Cancel' buttons.

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4.2.22 View Appointment

ACTION	DOWNLOAD REPORT	PRESCRIPTION	PATIENT NAME	PATIENT EMAIL	APPOINTMENT DATE	APPOINTMENT TIME
	View Report	Prescription	Krunal Jethva	krunaljethva8128@gmail.com	12-31-2099	02:49 PM
	View Report	Prescription	krunal jethva	krunaljethva8128@gmail.com	00-15-2022	11:00 PM
	View Report	Prescription	krunal jethva	krunaljethva8128@gmail.com	00-15-2022	11:00 PM
	View Report	Prescription	krunal jethva	krunaljethva8128@gmail.com	00-15-2022	10:00 PM
	View Report	Prescription	krunal jethva	krunaljethva8128@gmail.com	00-15-2022	10:00 PM
	View Report	Prescription	krunal jethva	krunaljethva8128@gmail.com	00-15-2022	09:30 PM

Activate Windows
Go to Settings to activate Windows.

4.2.23 Add Prescription

Add Prescription

Medicine Name:

Medicine Duration(Days):

Medicine Frequency:
 - - -

Note for patient:

[Add Medicine](#)

ACTION	MEDICINE NAME	MEDICINE DURATION	MEDICINE FREQUENCY	NOTES

[Cancel](#) [Upload](#)

Activate Windows
Go to Settings to activate Windows.

4.2.24 Feedback

The screenshot shows a web browser window with the URL `medipulse.clarent.institute:90/Rating/Rating?aid=518`. The page title is "Feedback Form". The form contains the following fields:

- Patient Name:** Haribala Patel
- Doctor Name:** Krunal Jethwa
- Doctor Specialization:** Dermatology
- Rating:** 3 / 5 (indicated by 3 orange stars and 2 empty stars)
- Review:** A text area with the placeholder "Write Your note".
- Submit:** A blue button at the bottom of the form.

The browser's address bar shows "Not secure" and the Medipulse logo is in the top left. The top right of the page shows a user profile for "Haribala Patel".

4.2.25. Doctor Feedback

The screenshot shows a web browser window with the URL `medipulse.clarent.institute:90/DoctorProfile/Feedback`. The page title is "Doctor Feedback". The page displays a list of feedback entries for Dr. Krunal Jethwa. The first entry is:

- Patient Name:** Haribala Patel
- Rating:** 3 / 5 (indicated by 3 orange stars and 2 empty stars)
- Review:** A text area with the placeholder "Write Your note".

The browser's address bar shows "Not secure" and the Medipulse logo is in the top left. The top right of the page shows a user profile for "Dr. Krunal Jethwa".

5. Agile Documentation

5.1 Agile Project Charter

Agile Project Charter

Discovery Team	
Project Name	Patient Doctor Video Call Management System
Stakeholders	Client: Rakesh Sarvaiya Case point Pvt. Ltd., Analyst : HARDIK, NAINSI
Team Members	NAINSI SANGANI HARDIK KATHIRIYA
Project Sponsor	-
Project Manager.	Mr. Kailash Patil
Expected Start Date	21-02-2023
Expected Complition Date	15-04-2023
Project Envisioning	
Problem Statement	In recent times, due to Corona, it is infective to visit the Clinic and Hospitals for Few Health Issues that requires the Basis & intermediate Diagnosis.
Vision	Make system dynamic & online
Project Canvas	
Project Name	Patient Doctor Video Call Management System
Who is your target customer?	Patients, Doctors
What is the Problem or pain point?	In recent times, due to Corona, It is infective to visit the Clinic and Hospitals for Few Health Issues that requires the Basis & intermediate Diagnosis.
What's the business goal?	System should be extraordinary according to client point of view

5.2 Agile Roadmap / Schedule

1 st Sprint	2 st Sprint
21-02-2023 to 03-03-2023 Understand project definition, gather requirement, finalized the project scope, Target User, Core Component and to learn Asp.Net.	07-03-2023 to 18-03-2023 we design the system and draw various diagram such as: <ul style="list-style-type: none"> • Use case Diagram • Activity Diagram • Class Diagram For system and prepare data dictionary.
3 rd Sprint	4 th Sprint
21-03-2023 to 01-04-2023 We implement the UI of the project, tested the module and documentation is prepared side by side.	04-04-2023 to 15-04-2023 We integrate all modules and tested overall system. whatever changes happen are incorporated also documentation is made side by side.
Final Sprint	
15-04-2022 to 20-04-2022 Final presentation and final documentation to be done.	

5.3 Agile Project Plan

Project Name:		Patient Doctor Video Call Management System				
Project Manager:		Mr. Kailash Patil				
Start Date:		21-02-2023				
End Date:		15-04-2023				
Sprints	Task	Responsible	Start Date	End Date	Duration	Status
Sprint-1	1.1 Registration Page	Hardik Kathiriya	21-02-2023	04-03-2023	2	Done
	1.2 Login Page	Hardik Kathiriya	21-02-2023	04-03-2023	3	Done
	1.3 Forgot Password	Hardik Kathiriya	21-02-2023	04-03-2023	3	Done
	1.4 User Profile	Nainsi Sangani	21-02-2023	04-03-2023	3	Done
	1.5 Email Management	Nainsi Sangani	21-02-2023	04-03-2023	3	Done
Sprint-2	2.1 Patient Surf for The Doctor	Hardik Kathiriya	07-03-2023	18-03-2023	3	Done
	2.2 Functionality: To Show theList of Available Doctors in the Card View	Hardik Kathiriya	07-03-2023	18-03-2023	2	Done
	2.3 Functionality: - Form –Book Appointment	Hardik Kathiriya	07-03-2023	18-03-2023	4	Done
	2.4 Functionality to Provide the Selection of date & Time	Hardik Kathiriya	07-03-2023	18-03-2023	3	Done
	2.5 Functionality to provide theG-link to the Patient	Hardik Kathiriya	07-03-2023	18-03-2023	3	Done
	2.6 Functionality to Showcase Past& Upcoming Appointments	Hardik Kathiriya	07-03-2023	18-03-2023	5	Done
	2.7 To Prepare the DashboardFor The Doctors	Nainsi Sangani	07-03-2023	18-03-2023	5	Done
	2.8 Feedback Sprint-1	Nainsi Sangani	07-03-2023	18-03-2023	4	Done
	2.9 Validation/Alert Message/Tooltip/Navigati on	Nainsi Sangani	07-03-2023	18-03-2023	4	Done
	2.10Functionality to Receive theFeedback after Consultation	Nainsi Sangani	07-03-2023	18-03-2023	5	Done
Sprint-3 Admin Module	3.1 To Prepare the Dashboard forther doctors	Nainsi Sangani	21-03-2023	01-04-2023	6	Done

Patient Doctor Video Call Management System

	3.2 Functionality to create the dashboard for the patients	Hardik Kathiriya	21-03-2023	01-04-2023	4	Done
	3.3 Enhancement in searchingFunctionality in Doctors Module(Placeholder)	Hardik Kathiriya	21-03-2023	01-04-2023	6	Done
	3.4 Enhancement in BookAppointment Page	Nainsi Sangani	21-03-2023	21-03-2023	5	Done
	3.5 Upload Prescription byDoctor	Nainsi Sangani	21-03-2023	21-03-2023	6	Done
	3.6 Upload Reports by Patients	Nainsi Sangani	21-03-2023	21-03-2023	5	Done
	3.7 Functionality to provide the Pagination (Wherever Applicable)	Nainsi Sangani	21-03-2023	21-03-2023	6	Done
Sprint-4 Customer Module	4.1 Get Dynamic Cards in PatientDashboard	Nainsi Sangani	04-04-2023	15-04-2023	2	Done
	4.2 Redesign Prescription Form	Hardik Kathiriya	04-04-2023	15-04-2023	6	Done
	4.3 System/error logs	Hardik Kathiriya	04-04-2023	15-04-2023	4	Done
	4.4 Enhancement: Chart Design	Nainsi Sangani	04-04-2023	15-04-2023	4	Done
	4.5 Enhancement in Appointmentpage for separating types of appointments	Hardik Kathiriya	04-04-2023	15-04-2023	3	Done
	4.6 Provide a functionality to filter Appointments year-wise	Hardik Kathiriya	04-04-2023	15-04-2023	6	Done
	4.7 Redesign Today's Appointment	Nainsi Sangani	04-04-2023	15-04-2023	4	Done
	4.8 Alert Emails	Nainsi Sangani	04-04-2023	15-04-2023	5	Done
	4.9 Provide a Functionality to Create Dynamic and Interactive Calendar	Nainsi Sangani	04-04-2023	15-04-2023	2	Done

5.4. Agile User Story (Minimum 3 Tasks)

AGILE USER STORY TEMPLATE

User Story Id	Priority	As A <type of user>	I want to <perform some task>	So That I can<achieve some goal>	Final Story
1	High	Doctor	Manage Appointment, Manage Member	Ensure that system is on track	Release
2	Medium	Patient	Book Appointment, View Appointment, Search Doctor	Complete my tasks on time	Release
3	Low	Doctor	Manage Appointment, Manage Patient	Complete Appointment	Release
4	High	Patient	Give Feedback, Rating, Complaint	Put my review in front of Patient	Release

5.5. Agile Release Plan

AGILE RELEASE PLAN TEMPLATE

SPRINT	START	FINISH	DURATION	STORY POINTS	STATUS
Sprint-1	21-02-2023	04-03-2023	5	40	Released
Sprint-2	07-03-2023	18-03-2023	10	35	Released
Sprint-3	21-03-2023	01-04-2023	14	25	Released
Sprint-4	04-04-2023	15-04-2023	7	35	Released

5.6. Agile Sprint Backlog

AGILE SPRINT BACKLOG TEMPLATE WITH BURNDOWN CHART

BACKLOG TASK & ID	STORY POINTS	ASSIGNED TO	STATUS	ORIGINAL ESTIMATE (Hours)	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	SPRINT REVIEW
User Story #1	40									
1.1 Registration Page		Hardik	Completed	7	5	2	0	0	0	2
1.2 Login Page		Nainsi	Completed	5	2	1	2	0	0	0
1.3 Forgot Password		Hardik	Completed	8	2	2	4	0	0	0
1.4 User Profile		Hardik	Completed	5	0	0	3	2	0	1
1.5 Email Management		Hardik, Nainsi	Completed	5	0	0	4	2	0	1
User Story #2	35									
2.1 Patient Surf forThe Doctor		Hardik, Nainsi	Completed	3	1	1	1	0	0	1
2.2 Functionality: ToShow The List Of Available Doctors in the Card View		Hardik	Completed	3	2	1	0	0	0	0
2.3 Functionality: -Form –Book Appointment		Hardik	Completed	10	4	3	2	0	1	3
2.4 Functionality to Provide the Selectionof date & Time		Hardik	Completed	5	0	2	1	1	0	0
2.5 Functionality toprovide the G-link tothe Patient		Hardik	Completed	5	2	0	0	1	2	0
2.6 Functionality toShowcase Past & Upcoming Appointments		Hardik	Completed	10	1	0	0	5	4	0
2.7 To Prepare TheDashboard For The Doctors		Nainsi	Completed	8	1	0	1	6	3	0

2.8 Feedback Sprint-1		Nainsi	Completed	4	1	0	1	6	3	0
2.9 Validation/Alert Message/Tooltip/Navigation		Nainsi	Completed	5	1	0	1	6	3	0
2.10 Functionality to Receive the Feedback after Consultation		Hardik	Completed	4	1	0	1	6	3	0
User Story #3	25									
3.1 To Prepare The Dashboard for the doctors		Nainsi	Completed	8	0	2	2	2	2	2
3.2 Functionality to create the dashboard for the patients		Nainsi	Completed	5	3	0	0	1	1	0
3.3 Enhancement in searching Functionality in Doctors Module (Placeholder)		Hardik	Completed	6	2	2	0	1	1	0
3.4 Enhancement in Book Appointment Page		Hardik	Completed	6	2	2	0	1	1	0
3.5 Upload Prescription by Doctor		Hardik	Completed	6	2	2	0	1	1	0
3.6 Upload Reports by Patients		Nainsi	Completed	6	2	2	0	1	1	0
3.7 Functionality to provide the Pagination(Wherever Applicable)		Nainsi	Completed	6	2	2	0	1	1	0
User Story #4	35									
4.1 4.1 Get Dynamic Cards in Patient Dashboard		Hardik	Completed	7	3	2	0	1	1	1
4.2 Redesign Prescription Form		Nainsi	Completed	12	4	2	2	3	1	1
4.3 System/errorlogs		Nainsi	Completed	6	2	2	2	0	0	1

4.4 Enhancement: Chart Design		Nainsi	Completed	6	2	2	2	0	0	1
4.5 Enhancement in Appointment page for separating types of appointments		Hardik	Completed	6	2	2	2	0	0	1
4.6 Provide a functionality to filter Appointments year-wise		Hardik	Completed	6	2	2	2	0	0	1
4.7 Redesign Today's Appointment		Hardik	Completed	6	2	2	2	0	0	1
4.8 Alert Emails		Nainsi	Completed	6	2	2	2	0	0	1
4.9 Provide a Functionality to Create		Nainsi	Completed	6	2	2	2	0	0	1

5.7. Agile Test Plan

Agile Test Plan				
Project Name:		Patient Doctor Video Call Management System		
Project Manager:		Mr. Kailash Patil		
Tested by:		Mr. Ankur Mistry		
Test#	Tasks	Expected Result	Actual Result	Pass?
Doctor/Patient Module	1.1 Registration Page	Registration	done	Yes
	1.2 Login Page	Login	done	Yes
	1.3 Forgot Password	Forgot Password	done	
	1.4 User Profile	User Profile Update	done	
	1.5 Email Management	Email Management	done	Yes

5.8. Earned-value and burn charts

Earned Value and Burn Chart

SPRINT	STORY POINTS	Project Cost value	February/March (21-02-2023 To 04-03-2023)	March (07-03-2023 To 18-03-2023)	March/April (21-03-2023 To 01-04-2023)	April (04-04-2023 To 15-04-2023)
Sprint-1	40	Planned	10	15	8	7
		Actual	9	15	8	6
		Earned	99%	100%	100%	99%
Sprint-2	35	Planned	8	15	7	5
		Actual	8	15	7	5
		Earned	100%	100%	100%	100%
Sprint-3	25	Planned	5	15	3	2
		Actual	4	15	3	2
		Earned	99%	100%	100%	100%
Sprint-4	35	Planned	10	15	5	5
		Actual	10	15	5	5
		Earned	100%	100%	100%	100%

6. Proposed Enhancements

- Patient Doctor Video Call Management System was developed to fulfil the requirement of Patients and Doctors to manage their appointments online.
- So, there are many things for future enhancement of this project. The future enhancements that are possible in the project are as follows:

- 1) Implementation of Wallet

- 2) Send notification on web

7. Conclusion

This project Medi pulse gave an opportunity for helping our company premises by using the hybrid model. Not only our particular company but the companies who use hybrid models for work culture can go through these projects. Future updates to this software will give the best result and also reason to use these.

Working with this project has enhanced my skills in the development part. Here, I have learned about PostgreSQL which has a user-friendly diagram. It is open source. Also, it is robust in nature with high performance and multitasking. This database also includes lots of features which make it one of the good choices out of all the databases. PostgreSQL has become better with every release. Also, I have learned RabbitMQ from the basics and created message and email notification through it in these projects. RabbitMQ offers a federation model for such cases. Highly Available Queue: Queues can be replicated across several nodes of the cluster, which ensures that messages are safe even in the case of hardware failure. Multi-Protocol: RabbitMQ supports several of the messaging protocols. Apart from these, I have also worked with the Redis environment which helps to show notification to employees and admin in the Dashboard page in the bell icon. Redis holds its database entirely in the memory, using the disk only for persistence. Redis has a relatively rich set of data types when compared to many key-value data stores.

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