

HALLODOC

A PROJECT REPORT

Submitted by

Sakshi Raval

200320107092

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

Computer Engineering Department

**L. J. Institute of Engineering and Technology
Ahmedabad**



Gujarat Technological University, Ahmedabad

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HALLODOC

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Prepared at

TATVASOFT

TatvaSoft House, Sarkhej - Gandhinagar Highway, Rajpath Rangoli Road Ahmedabad

Prepared By

Sakshi Raval

(200320107092)

Guided By:

Prof. Parinita Hajra

Department of CE

LJIET, Ahmedabad

External Guide

Ms. Sweety Patel

TatvaSoft

Ahmedabad, Gujarat.

SUBMITTED TO



L.J. Institute of Engineering & Technology



Gujarat Technological University



L. J. Institute of Engineering & Technology

Ahmedabad

CERTIFICATE

This is to certify that the project report submitted along with the project entitled **HalloDoc** has been carried out by **Sakshi Raval** under my guidance in partial fulfilment for the degree of Bachelor of Engineering in Computer Engineering, 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2023-24.

Prof. Parinita Hajra

Internal Guide

Prof. Shruti Raval

Head of the Department



Outsourcing • Custom Software Development • Web Application & eBusiness Solution

Date: 22nd Apr 2024

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Sakshi Nilesh Raval is selected from LJ college for internship in accordance with the college's policy.

Details of the project is as under

Project technology: .Net

Project Title : HalloDoc

Start Date: 08-Jan-24

End Date: 16-Apr-24

Project Mentor: Ms.Sweety Patel. Learning and development Executive

Email id: sweety.patel@tatvasoft.com

Phone no - 9601421472

For TatvaSoft

Authorized Signatory



GUJARAT TECHNOLOGICAL UNIVERSITY

CERTIFICATE FOR COMPLETION OF ALL ACTIVITIES AT ONLINE PROJECT PORTAL

B.E. SEMESTER VIII, ACADEMIC YEAR 2023-2024

Date of certificate generation : 25 April 2024 (20:32:32)

This is to certify that, **Sakshi Raval** (Enrolment Number - 200320107092) working on project entitled with **HalloDoc** from **Computer Engineering** department of **L. J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, AHMEDABAD** had submitted following details at online project portal.

Internship Project Report	Completed
---------------------------	-----------

Name of Student : Sakshi Raval

Name of Guide : Mr. Jay R Pariya

Signature of Student : _____

*Signature of Guide : _____

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This is a computer generated copy and does not indicate that your data has been evaluated. This is the receipt that GTU has received a copy of the data that you have uploaded and submitted as your project work.

*Guide has to sign the certificate, Only if all above activities has been Completed.



L. J. Institute of Engineering & Technology Ahmedabad

DECLARATION

We hereby declare that the Internship report submitted along with the Internship entitled **HalloDoc** submitted in partial fulfilment for the degree of Bachelor of Engineering in **Computer Engineering** to Gujarat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me at TatvaSoft under the supervision of Ms. Sweety Patel and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

Sakshi Raval

Sign of Student

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to several individuals for supporting me throughout my internship project. First, I wish to express my sincere gratitude to my Internal Guide, **Ms. Parinita Hajra**, for their enthusiasm, patience, insightful comments, helpful information, practical advice and unceasing ideas that have helped me tremendously at all times in my project. Without their support and guidance, this project would not have been possible.

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Sakshi Raval

200320107092

ABSTRACT

HalloDoc is a cutting-edge platform poised to revolutionize healthcare delivery by seamlessly integrating online doctor consultations and diagnostic services. With a user-friendly interface catering to both physicians and patients, HalloDoc streamlines medical processes, enhancing patient care and optimizing workflow for healthcare providers.

The platform offers a comprehensive suite of features, facilitating efficient access to patient records, appointment management, and secure communication channels between doctors and patients. Patients can conveniently request care for themselves or on behalf of others, fostering accessibility and convenience in healthcare delivery.

Admin functionalities empower comprehensive oversight, enabling the review of patient and physician records, case management, and the ability to manage requests effectively.

HalloDoc represents a significant advancement in healthcare technology, bridging the gap between healthcare providers and patients, thereby promoting accessibility, efficiency, and improved patient outcomes in the digital age.

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LIST OF SYMBOLS

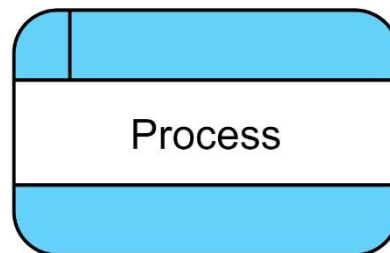
Entity



Database Table



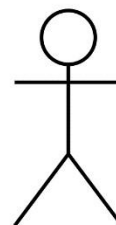
Process



Dataflow



Actor



LIST OF ABBREVIATIONS

- Docs Documents
- IDE Integrated Development Environment
- SQL Structured Query Language
- JS JavaScript
- HTML Hyper Text Markup Language
- CSS Cascading Style Sheet
- CSHTML C Sharp Hyper Text Markup Language
- CS C Sharp
- DBA Database Administrator
- DBMS Database Management System
- HR Human resources
- QA Quality Assurance
- SMS Short Message Service
- UI User Interface
- UX User Experience

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Chapter

1

1. OVERVIEW OF THE COMPANY

History

Different Products

OVERVIEW OF THE COMPANY



Tatvasoft

TatvaSoft, founded in 2001 and headquartered in Ahmedabad, is a distinguished software product development company known for its expertise in designing and implementing mobile apps, advanced software solutions, and websites. Specializing in crafting comprehensive digital solutions, TatvaSoft assists businesses across various sectors in overcoming their challenges and achieving their goals effectively.

With a skilled team proficient in a multitude of technologies, TatvaSoft offers bespoke website development services tailored to the unique needs of each client. Whether it's creating dynamic e-commerce platforms, interactive corporate websites, or engaging web applications, TatvaSoft leverages its expertise to deliver high-quality, visually appealing, and user-friendly websites.

In addition to website development, TatvaSoft excels in mobile app development and software implementation. By conceptualizing and strategizing the entire development process, the company ensures that projects are executed with precision, reducing risks, managing costs, and delivering solutions that meet and exceed client expectations.

Through its commitment to excellence and innovation, TatvaSoft has earned a reputation as a trusted partner for businesses seeking to leverage technology to drive growth and success in today's digital landscape.

DIFFERENT SERVICES

- Custom Software Development
- Web Development
- Mobile App Development
- UI/UX Design
- Product Development & Maintenance
- Cloud Services
- Big Data & Analytics Solutions
- IT Services & IT Consulting

Chapter

2

2. OVERVIEW OF THE COMPANY DEPARTMENT

All Departments

Technical Specifications in department

Sequence of operators

OVERVIEW OF THE COMPANY DEPARTMENT

TatvaSoft: Your One-Stop Shop for Software Development

TatvaSoft is a reputed CMMI level 3 software and mobile app development company with a focus on providing exceptional customer service. We offer a full range of development services to ensure your project's success, from initial concept to final product.

All departments

- HR Department
- Sales Marketing Department
- Development Department
- Testing Department

Technical Specifications in department

- **HR Department**

Our HR team is committed to finding the best talent and fostering a positive work environment that maximizes employee productivity. They handle everything from recruitment and compensation to training and development.

- **Sales Marketing Department**

Our sales and marketing team works diligently to understand your target market and develop strategies to reach them effectively. They help you determine the best pricing and positioning for your product or service.

- **Development Department**

Our development department is comprised of skilled professionals across various specialties, including web development, Android development, and iOS development. We use the latest technologies to create high-quality, user-friendly applications.

- **Testing Department**

Our testing department plays a vital role in ensuring the quality of your software. They rigorously test all aspects of your application to identify and fix any bugs before it reaches the market.

Sequence of operators

1. **Requirement Gathering & Analysis:** Our research team gathers your requirements, analyses them, and defines the features to be developed. They also estimate the project's cost and timeline.
2. **Development & Team Allocation:** We leverage expert teams like ASP.NET MVC for backend and a modern UI framework for frontend, ensuring a tailored approach for each project.
3. **Testing & Quality Assurance:** Once development is complete, our testing team meticulously tests the software to ensure it meets all requirements and functions flawlessly.

Chapter

3

3. INTRODUCTION TO INTERNSHIP

Purpose

Objective

Scope

Technology and Literature Review

Planning

Scheduling

INTRODUCTION TO INTERNSHIP

Purpose

HalloDoc aims to break down barriers in healthcare by fostering trust and accessibility. Just as understanding the ideal customer is crucial in effective marketing, we believe in understanding patients deeply. Our platform facilitates virtual consultations and diagnostics, eliminating physical barriers to care. Through personalized interactions, we address individual needs, habits, and aspirations, ensuring tailored healthcare solutions. HalloDoc empowers patients to engage with their health, making informed decisions. By leveraging technology and understanding patients comprehensively, we strive to revolutionize healthcare delivery, providing accessible and trustworthy care to all.

Objective

HalloDoc's core goal is to enhance healthcare accessibility and trust, our platform empowers patients with virtual consultations and diagnostics. Through this innovative approach, HalloDoc aims to revolutionize healthcare, bridging the gap between patients and providers while ensuring accurate representation of patient needs.

Scope

The scope of the HalloDoc project includes facilitating virtual consultations and offering diagnostic services for remote monitoring and analysis. Efficient patient management tools will be developed, along with telemedicine features for remote healthcare delivery. A user-friendly interface and dedicated mobile application will enhance accessibility. Integration with existing healthcare systems will enable seamless data exchange, while features for patient feedback and ratings will promote transparency and accountability. Continuous improvement mechanisms will ensure HalloDoc remains innovative in healthcare technology.

Technology and Literature Review

Table 3.2 Technologies Used to Develop Project

Front End	Bootstrap, HTML , CSS
Back End	ASP .NET Core MVC,C#
Database	PostgreSQL

Planning

The software development models are the various processes or methodologies that are being selected for the development of the project depending on the project's aims and goals. There are many development life cycle models that have been developed in order to achieve different required objectives. The models specify the various stages of the process and the order in which they are carried out.

The selection of model has very high impact on the testing that is carried out. It will define the what, where and when of our planned testing, influence regression testing and largely determines which test techniques to use.

Scheduling

Week	2	3	4	5	6	7	8	9	10	11	12	13	14
Month Activity	January				February				March				April
Domain Understanding													
Future Analysis													
Learning Process													
Design													
Coding and Testing													
Documentation													
Final Documentation													

Fig 3.1 Gantt Chart

Chapter

4

4. SYSTEM ANALYSIS

Study of Current System

Weakness of Current System

Requirement of New System

Feasibility Study

Use case Diagram

Data flow Diagram

Features of New System

Selection of Hardware and Software

SYSTEM ANALYSIS

Study of Current System

1. Teladoc:

- Limited Physical Examination: Teladoc consultations may lack the ability for healthcare providers to conduct physical examinations, which can be crucial for certain medical conditions or diagnoses.
- Lack of Continuity of Care: Since Teladoc connects users with different healthcare providers for each consultation, there may be a lack of continuity of care and familiarity with the patient's medical history.
- Technical Limitations: Users in areas with poor internet connectivity or limited access to technology may face challenges in accessing Teladoc's virtual healthcare services.

2. ZocDoc:

- Limited Provider Availability: Zocdoc's availability of healthcare providers may vary depending on location and specialty, leading to potential difficulties in finding appointments with preferred providers.
- Reliance on User Reviews: While user reviews can provide valuable insights, they may not always accurately reflect the quality of care provided by healthcare providers listed on Zocdoc.
- Appointment Scheduling Issues: Users may encounter scheduling conflicts or difficulties in booking appointments due to limited availability or discrepancies between Zocdoc's listings and actual provider schedules.

3. Amwell:

- Diagnosis Limitations: Remote consultations through Amwell may have limitations in diagnosing certain medical conditions that require in-person evaluations or diagnostic tests.

- Privacy Concerns: Users may have concerns about the privacy and security of their personal health information when using Amwell's virtual healthcare services, especially with regards to data breaches or unauthorized access.
- Insurance Coverage: While Amwell accepts various insurance plans, not all services or consultations may be covered by insurance, potentially leading to out-of-pocket expenses for users.

Weakness of Current System

- Lack of Physical Examination
- Continuity of Care Issues
- Technical Limitations
- Limited Provider Availability
- Reliance on User Reviews
- Appointment Scheduling Issues
- Diagnosis Limitations
- Privacy Concerns

Requirement of New System

- Comprehensive Virtual Care
- Integrated Patient Management
- User-Friendly Interface
- Multi-Platform Accessibility
- Secure Communication
- Remote Monitoring Capabilities
- Interoperability with Existing Systems
- Personalization and Customization
- Scalability and Flexibility
- Regulatory Compliance
- Feedback and Improvement Mechanisms

Feasibility Study

Scheduling for the Project

Table: 4.1 Activity of Proposed System

Title	Date	Status
Study Time	15/01/2024 to 22/01/2024	Completed
Introduction of languages	22/01/2024 to 24/01/2024	Completed
Data Gathering and Requirements Analysis	24/01/2024 to 26/01/2024	Completed
Design Diagrams	26/01/2024 to 29/01/2024	Completed
Data Dictionary	29/01/2024 to 30/01/2024	Completed
Database, Stored Procedure	30/01/2024 to 01/02/2024	Completed
Template Design, Reports	02/02/2024 to 17/02/2022	Completed
Coding/Implementation	17/03/2024 to 04/04/2024	Completed
Change Detection	05/04/2024 to 10/04/2024	Completed
Testing	11/04/2024 to 12/04/2024	Completed
Referencing the change	13/04/2024 to 15/04/2024	Completed

Use Case Diagram

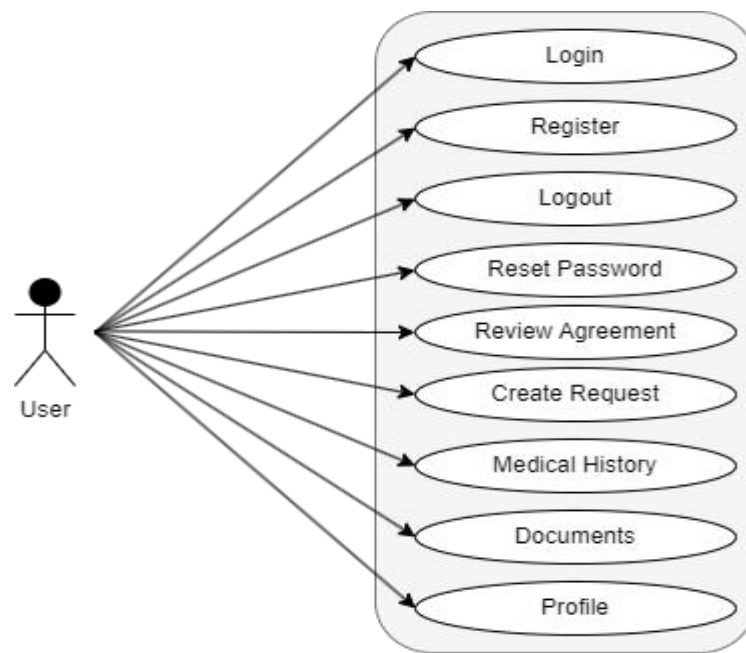


Fig 4.1 User - Use case diagram

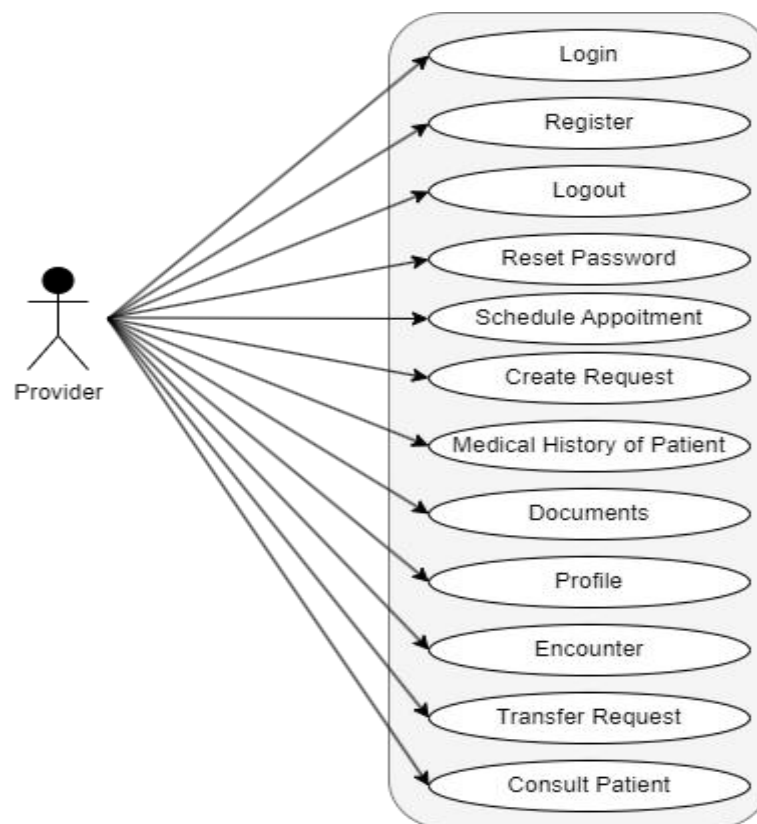


Fig 4.2 Provider - Use case diagram

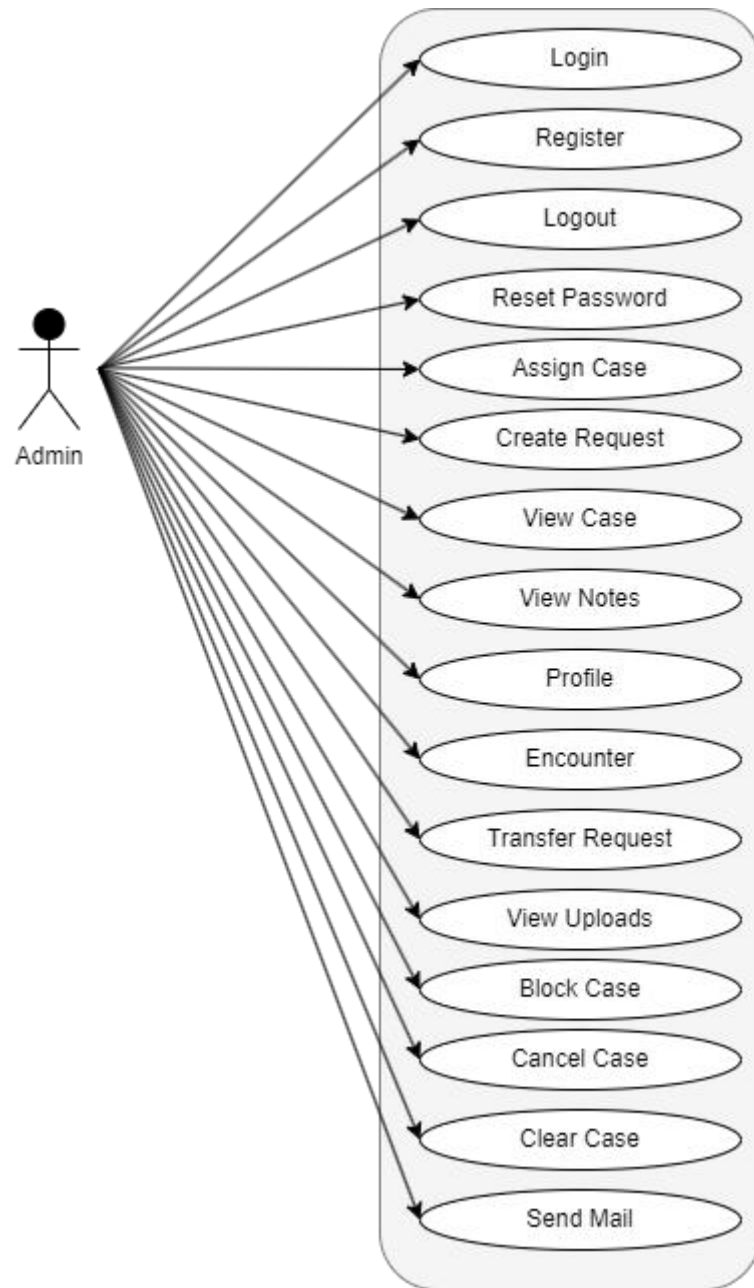


Fig 4.3 Admin - Use case diagram

Data Flow Diagram

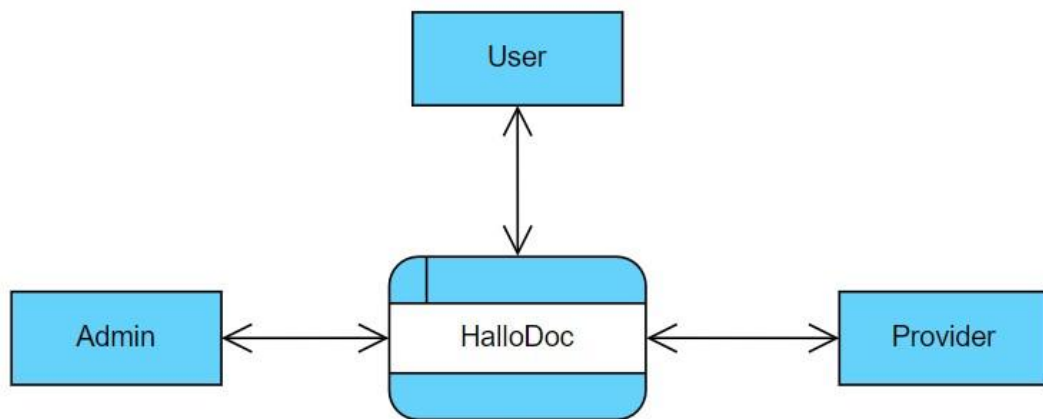


Fig. 4.4 Data Flow Diagram (Level 0)

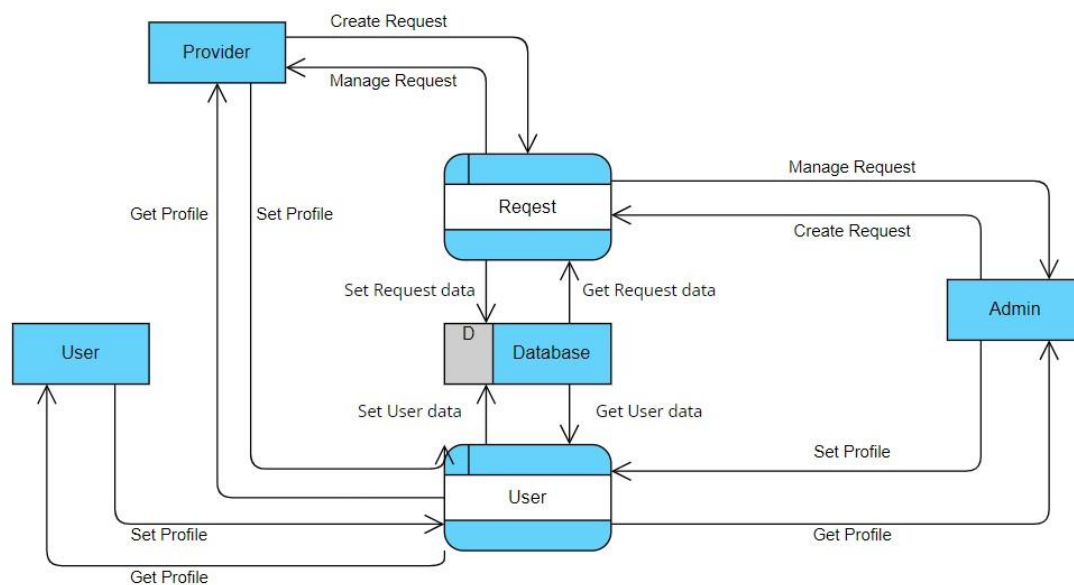


Fig 4.5 Data Flow Diagram (Level 1 Admin)

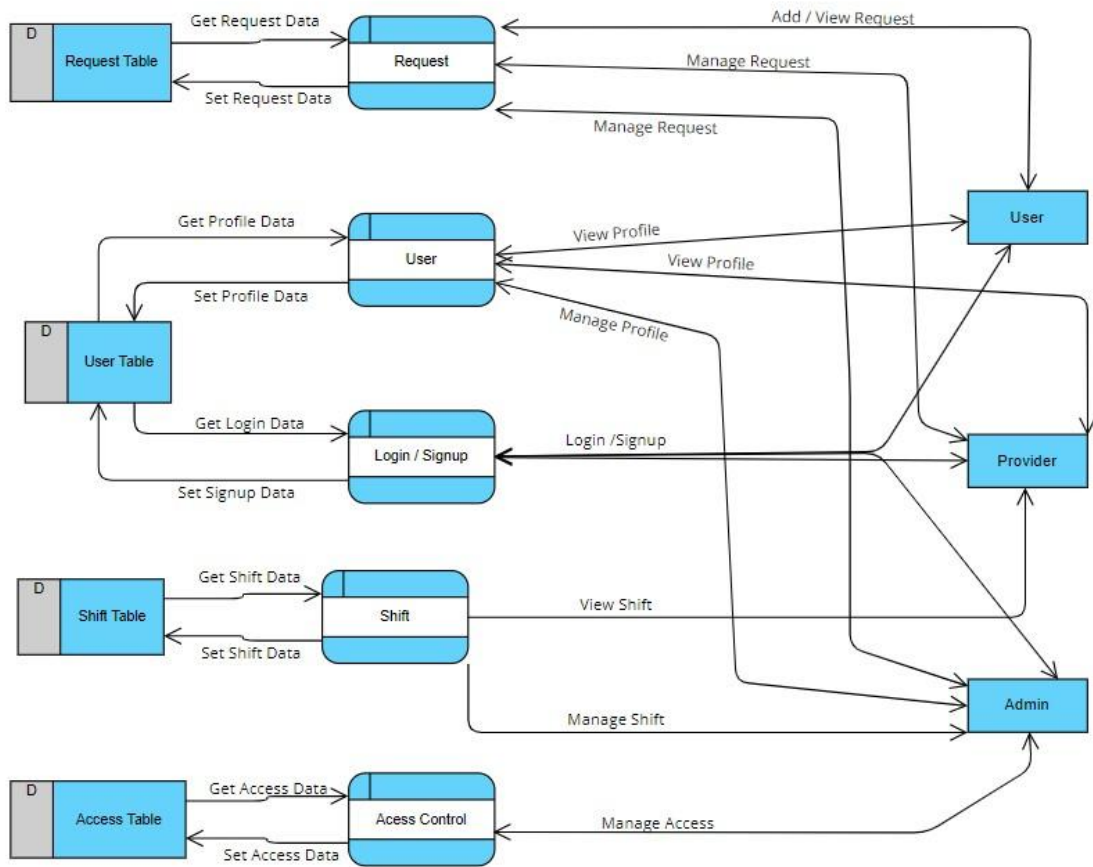


Fig 4.6 Data Flow Diagram (Level 1 Client/User)

Features of New System

This website is going to be used by mainly 3 kinds of user that deals with this application:

1. Admin
2. Provider
3. Patient (User)

1. Admin:

- Role: The admin user has overarching control and management responsibilities within the healthcare system.
- Responsibilities:
 - Manage user accounts and permissions, including creating, modifying, and deleting accounts as needed.
 - Configure system settings and preferences, such as appointment scheduling rules and billing parameters.
 - Monitor system performance and resolve technical issues or security concerns.
 - Generate reports and analytics to track key performance indicators and assess system usage.
 - Ensure compliance with regulatory requirements and standards for healthcare data privacy and security.
 - Collaborate with providers and patients to gather feedback and implement system improvements.

2. Provider:

- Role: The provider user includes healthcare professionals who deliver medical services within the system.
- Responsibilities:
 - Conduct virtual consultations with patients, including diagnosing medical conditions, prescribing medications, and developing treatment plans.
 - Review patient medical records and history to provide personalized care and recommendations.
 - Document patient encounters accurately and comprehensively, ensuring all relevant information is captured for continuity of care.

- Collaborate with other healthcare providers and specialists as needed for multidisciplinary care.
- Communicate with patients effectively and compassionately, addressing their concerns and providing education on health management.
- Stay updated on medical best practices and guidelines to deliver high-quality care and improve patient outcomes.

3. Patient:

- Role: The patient user represents individuals seeking healthcare services and managing their health within the system.
- Responsibilities:
 - Schedule appointments with healthcare providers, including selecting preferred dates and times for consultations.
 - Provide accurate and complete medical history information during consultations to facilitate diagnosis and treatment.
 - Participate actively in virtual consultations, asking questions, expressing concerns, and following provider recommendations.
 - Adhere to prescribed treatment plans, including taking medications as directed and attending follow-up appointments.
 - Communicate openly and honestly with healthcare providers about symptoms, changes in health status, or treatment adherence issues.
 - Access educational resources and tools within the system to learn about health conditions, preventive care measures, and lifestyle management strategies.

Selection of Hardware and Software

- Hardware

- Development Machine Requirement (Average performance)

- 8 GB RAM
 - 50 GB HDD
 - Internet ○ Client Machine

- Software

- Development Machine Requirements

- Visual Studio
 - PostgreSQL
 - PgAdmin
 - Browser

- Client Machine

Requirements

- Browser

- Host Machine Requirements

(Linux)

- Server

Chapter

5

5. SYSTEM DESIGN

System Design and Methodology

Database Design

SYSTEM DESIGN

System Design and Methodology

We are using Scrum Methodology in development process. Scrum is an agile development methodology used in the development of Software based on iterative and incremental processes. Scrum is adaptable, fast, flexible and effective agile framework that is designed to deliver value to the customer throughout the development of the project. The primary objective of Scrum is to satisfy the customer's need through an environment of transparency in communication, collective responsibility and continuous progress. The development starts from a general idea of what needs to be built, elaborating a list of characteristics ordered by priority (product backlog) that the owner of the product wants to obtain.

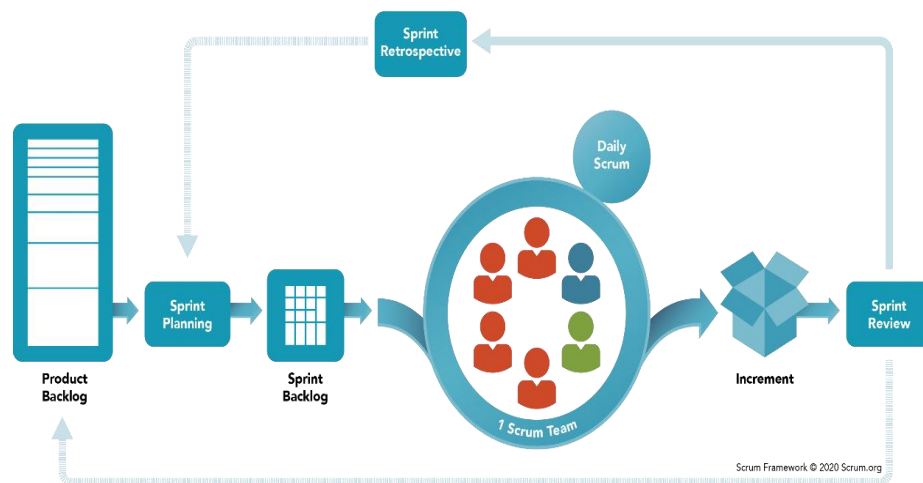


Fig 5.1 Scrum Methodology

Scrum Methodology & Process

Scrum is precisely an evolution of Agile Management. Scrum methodology is based on a set of very defined practices and roles that must be involved during the software development process. It is a flexible methodology that rewards the application of the 12 agile principles in a context agreed by all the team members of the product.

Scrum is executed in temporary blocks that are short and periodic, called Sprints, which usually range from 2 to 4 weeks, which is the term for feedback and reflection. Each Sprint is an entity in itself, that is, it provides a complete result, a variation of the final product that must be able to be delivered to the client with the least possible effort when requested.

The process has as a starting point, a list of objectives/ requirements that make up the project plan. It is the client of the project that prioritizes these objectives considering a balance of the value and the cost thereof, that is how the iterations and consequent deliveries are determined.

On the one hand the market demands quality, fast delivery at lower costs, for which a company must be very agile and flexible in the development of products, to achieve short development cycles that can meet the demand of customers without undermining the quality of the result. It is a very easy methodology to implement and very popular for the quick results it gets.

Scrum methodology is used mainly for software development, but other sectors are also taking advantage of its benefits by implementing this methodology in their organizational models such as sales, marketing, & HR teams etc.

Different Roles in Scrum



Fig 5.2 Different Roles in Scrum

Database Design

Table 5.1 Admin

Table Name	Admin			
Field Name	Data Type	Length	Nullable	Comments
AdminId	int		No	Its Primary Key.
AspNetUserId	nvarchar	128	No	Its Foreign key of AspNetUsers Table.
FirstName	nvarchar	100	No	
LastName	nvarchar	100	Yes	
Email	nvarchar	50	No	
Mobile	nvarchar	20	Yes	
Address1	nvarchar	500	Yes	
Address2		500	Yes	
City	nvarchar	100	Yes	
RegionId	int		Yes	
Zip	nvarchar	10	Yes	
AltPhone	nvarchar	20	Yes	
CreatedBy	nvarchar	128	No	
CreatedDate	datetime		No	
ModifiedBy	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
ModifiedDate	datetime		Yes	
Status	tinyint		Yes	
IsDeleted	bit		Yes	
RoleId	int		Yes	

Table 5.2 AdminRegion

Table Name	AdminRegion			
Field Name	Data Type	Length	Nullable	Comments
AdminRegionId	int		No	Its Primary Key.
AdminId	int		No	Its Foreign key of Admin Table.
RegionId	int		No	Its Foreign key of Region Table.

Table 5.3 AspNetRoles

Table Name	AspNetRoles			
Field Name	Data Type	Length	Nullable	Comments
Id	nvarchar	128	No	Its Primary Key.
Name	nvarchar	256	No	

Table 5.4 AspNetUserRoles

Table Name	AspNetUserRoles			
Field Name	Data Type	Length	Nullable	Comments
UserId	nvarchar	128	No	Its Primary Key.Its Foreign key of AspNetUsers Table.
RoleId	nvarchar	128	No	Its Primary Key.

Table 5.5 AspNetUsers

Table Name	AspNetUsers			
Field Name	Data Type	Length	Nullable	Comments
Id	nvarchar	128	No	Its Primary Key.
UserName	nvarchar	256	No	
PasswordHash	nvarchar	MAX	Yes	

Email	nvarchar	256	Yes	
PhoneNumber	nvarchar	20	Yes	
IP	nvarchar	20	Yes	
CreatedDate	datetime		No	
CreatedDate	datetime		Yes	

Table 5.6 BlockRequests

Table Name	BlockRequests			
Field Name	Data Type	Length	Nullable	Comments
BlockRequestId	int		No	Its Primary Key.
PhoneNumber	nvarchar	50	Yes	
Email	nvarchar	50	Yes	
IsActive	bit		Yes	
Reason	nvarchar	MAX	Yes	
RequestId	nvarchar	50	No	
IP	nvarchar	20	Yes	
CreatedDate	datetime		Yes	
ModifiedDate	datetime		Yes	

Table 5.7 Business

Table Name	Business			
Field Name	Data Type	Length	Nullable	Comments
BusinessId	int	100	No	Its Primary Key.
Name	nvarchar		No	
Address1	nvarchar	500	Yes	
Address2	nvarchar	500	Yes	
City	nvarchar	50	Yes	
RegionId	int		Yes	Its Foreign key of Region Table.

ZipCode	nvarchar	10	Yes	
PhoneNumber	nvarchar	20	Yes	
FaxNumber	nvarchar	20	Yes	
IsRegistered	bit		Yes	
CreatedBy	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
CreatedDate	datetime		No	
ModifiedBy	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
ModifiedDate	datetime		Yes	
Status	tinyint		Yes	
IsDeleted	bit		Yes	
IP	nvarchar	20	Yes	

Table 5.8 CaseTag

Table Name	CaseTag			
Field Name	Data Type	Length	Nullable	Comments
CaseTagId	int		No	
Name	nvarchar	50	No	

Table 5.9 Concierge

Table Name	Concierge			
Field Name	Data Type	Length	Nullable	Comments
ConciergeId	int		No	Its Primary Key.
ConciergeName	nvarchar	100	No	
Address	nvarchar	150	Yes	
Street	nvarchar	50	No	
City	nvarchar	50	No	
State	nvarchar	50	No	
ZipCode	nvarchar	50	No	
CreatedDate	datetime		No	
RegionId	int		No	Its Foreign key of Region Table.

RoleId	nvarchar	20	Yes	
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Table 5.10 EmailLog

Table Name	EmailLog			
Field Name	Data Type	Length	Nullable	Comments
EmailLogID	decimal	9	No	Its Primary Key.
EmailTemplate	nvarchar	MAX	No	
SubjectName	nvarchar	200	No	
EmailID	nvarchar	200	No	
ConfirmationNumber	nvarchar	200	Yes	
FilePath	nvarchar	MAX	Yes	
RoleId	int		Yes	
RequestId	int		Yes	
AdminId	int		Yes	
PhysicianId	int		Yes	
CreateDate	datetime		No	
SentDate	datetime		Yes	
IsEmailSent	bit		Yes	
SentTries	int		Yes	
Action	int		Yes	

Table 5.11 HealthProfessionals

Table Name	HealthProfessionals			
Field Name	Data Type	Length	Nullable	Comments
VendorId	int		No	Its Primary Key.
VendorName	nvarchar	100	No	
Profession	int		Yes	Its Foreign key of HealthProfessionalType Table.
FaxNumber	nvarchar	50	No	
Address	nvarchar	150	Yes	

City	nvarchar	100	Yes	
State	nvarchar	50	Yes	
Zip	nvarchar	50	Yes	
RegionId	int		Yes	
CreatedDate	datetime		No	
ModifiedDate	datetime		Yes	
PhoneNumber	nvarchar	100	Yes	
IsDeleted	bit		Yes	
IP	nvarchar	20	Yes	
Email	nvarchar	50	Yes	
BusinessContact	nvarchar	100	Yes	

Table 5.12 OrderDetails

Table Name	OrderDetails			
Field Name	Data Type	Length	Nullable	Comments
Id	int		No	Its Primary Key.
VendorId	int		Yes	
RequestId	int		Yes	
FaxNumber	nvarchar	50	Yes	
Email	nvarchar	50	Yes	
BusinessContact	nvarchar	100	Yes	
Prescription	nvarchar	max	Yes	
NoOfRefill	int		Yes	
CreatedDate	datetime		Yes	
CreatedBy	nvarchar	100	Yes	

Table 5.13 HealthProfessionalType

Table Name	HealthProfessionalType			
Field Name	Data Type	Length	Nullable	Comments

HealthProfessionalId	int		No	Its Primary Key.
ProfessionName	nvarchar	50	No	
CreatedDate	datetime		No	
IsActive	bit		Yes	
IsDeleted	bit		Yes	

Table 5.14 Menu

Table Name	Menu			
Field Name	Data Type	Length	Nullable	Comments
MenuId	int		No	Its Primary Key.
Name	nvarchar	50	No	
AccountType	tinyint		No	1 - Admin, 2 - Physician
SortOrder	int		Yes	

Table 5.15 Physician

Table Name	Physician			
Field Name	Data Type	Length	Nullable	Comments
PhysicianId	int		No	Its Primary Key.
AspNetUserId	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
FirstName	nvarchar	100	No	
LastName	nvarchar	100	Yes	
Email	nvarchar	50	No	
Mobile	nvarchar	20	Yes	
MedicalLicense	nvarchar	500	Yes	
Photo	nvarchar	100	Yes	
AdminNotes	nvarchar	500	Yes	
IsAgreementDoc	bit		Yes	
IsBackgroundDoc	bit		Yes	
IsTrainingDoc	bit		Yes	

IsNonDisclosureDoc	bit		Yes	
Address1	nvarchar	500	Yes	
Address2	nvarchar	500	Yes	
City	nvarchar	100	Yes	
RegionId	int		Yes	
Zip	nvarchar	10	Yes	
AltPhone	nvarchar	20	Yes	
CreatedBy	nvarchar	128	No	Its Foreign key of AspNetUsers Table.
CreatedDate	datetime		No	
ModifiedBy	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
ModifiedDate	datetime		Yes	
Status	tinyint		Yes	
BusinessName	nvarchar	100	No	
BusinessWebsite	nvarchar	200	No	
IsDeleted	bit		Yes	
RoleId	int		Yes	
NPINumber	nvarchar	500	Yes	
IsLicenseDoc	bit		Yes	
Signature	nvarchar	100	Yes	
IsCredentialDoc	bit		Yes	
IsTokenGenerate	bit		Yes	
SyncEmailAddress	nvarchar	50	Yes	

Table 5.16 PhysicianLocation

Table Name	PhysicianLocation			
Field Name	Data Type	Length	Nullable	Comments
LocationId	int		No	
PhysicianId	int		No	Its Foreign key of Physician Table.
Latitude	decimal	9	Yes	
Longitude	decimal	9	Yes	

CreatedDate	datetime		Yes	
PhysicianName	nvarchar	50	Yes	
Address	nvarchar	500	Yes	

Table 5.17 PhysicianNotification

Table Name	PhysicianNotification			
Field Name	Data Type	Length	Nullable	Comments
id	int		No	Its Primary Key.
PhysicianId	int		No	Its Foreign key of Physician Table.
IsNotificationStopped	bit		No	

Table 5.18 PhysicianRegion

Table Name	PhysicianRegion			
Field Name	Data Type	Length	Nullable	Comments
PhysicianRegionId	int		No	Its Primary Key.
PhysicianId	int		No	Its Foreign key of Physician Table.
RegionId	int		No	Its Foreign key of Region Table.

Table 5.19 Region

Table Name	Region			
Field Name	Data Type	Length	Nullable	Comments
RegionId	int		No	Its Primary Key.
Name	nvarchar	50	No	
Abbreviation	nvarchar	50	Yes	

Table 5.20 Request

Table Name	Request			
Field Name	Data Type	Length	Nullable	Comments
RequestId	int		No	Its Primary Key.
RequestTypeId	int		No	1- Business, 2- Patient, 3- Family & 4- Concierge
UserId	int		Yes	Its Foreign key of User Table.
FirstName	nvarchar	100	Yes	
LastName	nvarchar	100	Yes	
PhoneNumber	nvarchar	23	Yes	
Email	nvarchar	50	Yes	
Status	tinyint		No	1-Unassigned,2-Accepted,3-Cancelled,4Reserving,5-MDEnRoute,6-MDOnSite,7-FollowUp,8-Closed,9-Locked,10-Declined,11Consult,12-Clear,13-CancelledByProvider,14CCUuploadedByClient,15-CCApprovedByAdmin
PhysicianId	int		Yes	Its Foreign key of Physician Table.
ConfirmationNumber	nvarchar	20	Yes	
CreatedDate	datetime		No	
IsDeleted	bit		Yes	
ModifiedDate	datetime		Yes	
DeclinedBy	varchar	250	Yes	
IsUrgentEmailSent	bit		No	
LastWellnessDate	datetime		Yes	
IsMobile	bit		Yes	
CallType	tinyint		Yes	
CompletedByPhysician	bit		Yes	

LastReservationDate	datetime		Yes	
AcceptedDate	datetime		Yes	
RelationName	nvarchar	100	Yes	
CaseNumber	nvarchar	50	Yes	
IP	nvarchar	20	Yes	
CaseTag	nvarchar	50	Yes	
CaseTagPhysician	nvarchar	50	Yes	
PatientAccountId	nvarchar	128	Yes	
CreatedUserId	int		Yes	

Table 5.21 RequestBusiness

Table Name	RequestBusiness			
Field Name	Data Type	Length	Nullable	Comments
RequestBusinessId	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.
BusinessId	int		No	Its Foreign key of Business Table.
IP	nvarchar	20	Yes	

Table 5.22 RequestClient

Table Name	RequestClient			
Field Name	Data Type	Length	Nullable	Comments
RequestClientId	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.
FirstName	nvarchar	100	No	
LastName	nvarchar	100	Yes	
PhoneNumber	nvarchar	23	Yes	
Location	nvarchar	100	Yes	
Address	nvarchar	500	Yes	
RegionId	int		Yes	Its Foreign key of Region Table.

NotiMobile	nvarchar	20	Yes	
NotiEmail	nvarchar	50	Yes	
Notes	nvarchar	500	Yes	
Email	nvarchar	50	Yes	
strMonth	nvarchar	20	Yes	
intYear	int		Yes	
intDate	int		Yes	
IsMobile	bit		Yes	
Street	nvarchar	100	Yes	
City	nvarchar	100	Yes	
State	nvarchar	100	Yes	
ZipCode	nvarchar	10	Yes	
CommunicationType	tinyint		Yes	
RemindReservationCount	tinyint		Yes	
RemindHouseCallCount	tinyint		Yes	
IsSetFollowupSent	tinyint		Yes	
IP	nvarchar	20	Yes	
IsReservationReminderSen	tinyint		Yes	
t				
Latitude	decimal	9	Yes	
Longitude	decimal	9	Yes	

Table 5.23 RequestClosed

Table Name	RequestClosed			
Field Name	Data Type	Length	Nullable	Comments
RequestClosedId	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.
RequestStatusLogId	int		No	Its Foreign key of RequestStatusLog Table.

PhyNotes	nvarchar	500	Yes	
ClientNotes	nvarchar	500	Yes	
IP	nvarchar	20	Yes	

Table 5.24 RequestConcierge

Table Name	RequestConcierge			
Field Name	Data Type	Length	Nullable	Comments
Id	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.
ConciergeId	int		No	Its Foreign key of Concierge Table.
IP	nvarchar	20	Yes	

Table 5.25 RequestNotes

Table Name	RequestNotes			
Field Name	Data Type	Length	Nullable	Comments
RequestNotesId	Int		No	Its Primary Key.
RequestId	Int		No	Its Foreign key of Request Table.
strMonth	Nvarchar	20	Yes	
intYear	Int		Yes	
intDate	Int		Yes	
PhysicianNotes	Nvarchar	500	Yes	
AdminNotes	Nvarchar	500	Yes	
CreatedBy	Nvarchar	128	No	
CreatedDate	Datetime		No	
ModifiedBy	Nvarchar	128	Yes	
ModifiedDate	Datetime		Yes	
IP	Nvarchar	20	Yes	

AdministrativeNotes	Nvarchar	500	Yes	
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Table 5.26 RequestStatusLog

Table Name	RequestStatusLog			
Field Name	Data Type	Length	Nullable	Comments
RequestStatusLogId	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.
Status	tinyint		No	
PhysicianId	int		Yes	Its Foreign key of Physician Table.
AdminId	int		Yes	Its Foreign key of Admin Table.
TransToPhysicianId	int		Yes	Its Foreign key of Physician Table.
Notes	nvarchar	500	Yes	
CreatedDate	datetime		No	
IP	nvarchar	20	Yes	
TransToAdmin	bit		Yes	

Table 5.27 RequestType

Table Name	RequestType			
Field Name	Data Type	Length	Nullable	Comments
RequestTypeId	int		No	Its Primary Key.
Name	nvarchar	50	No	

Table 5.28 RequestWiseFile

Table Name	RequestWiseFile			
Field Name	Data Type	Length	Nullable	Comments
RequestWiseFileID	int		No	Its Primary Key.
RequestId	int		No	Its Foreign key of Request Table.

FileName	nvarchar	500	No	
CreatedDate	datetime		No	
PhysicianId	int		Yes	Its Foreign key of Physician Table.
AdminId	int		Yes	Its Foreign key of Admin Table.
DocType	tinyint		Yes	1-TestOne,2-MedicalReport,3-CostReceipt
IsFrontSide	bit		Yes	
IsCompensation	bit		Yes	
IP	nvarchar	20	Yes	
IsFinalize	bit		Yes	
IsDeleted	bit		Yes	
IsPatientRecords	bit		Yes	

Table 5.29 Role

Table Name	Role			
Field Name	Data Type	Length	Nullable	Comments
RoleId	int		No	Its Primary Key.
Name	nvarchar	50	No	
AccountType	tinyint		No	1 - Admin, 2 - Physician
CreatedBy	nvarchar	128	No	
CreatedDate	datetime		No	
ModifiedBy	nvarchar	128	Yes	
ModifiedDate	datetime		Yes	
IsDeleted	bit		No	
IP	nvarchar	20	Yes	

Table 5.30 RoleMenu

Table Name	RoleMenu			
Field Name	Data Type	Length	Nullable	Comments
RoleMenuId	int		No	Its Primary Key.

RoleId	int		No	Its Foreign key of Role Table.
MenuId	int		No	Its Foreign key of Menu Table.

Table 5.31 Shift

Table Name	Shift			
Field Name	Data Type	Length	Nullable	Comments
ShiftId	int		No	Its Primary Key.
PhysicianId	int		No	Its Foreign key of Physician Table.
StartDate	date		No	
IsRepeat	bit		No	
WeekDays	char	7	Yes	
RepeatUpto	int		Yes	
CreatedBy	nvarchar	128	No	Its Foreign key of AspNetUsers Table.
CreatedDate	datetime		No	
IP	nvarchar	20	Yes	

Table 5.32 ShiftDetail

Table Name	ShiftDetail			
Field Name	Data Type	Length	Nullable	Comments
ShiftDetailId	int		No	Its Primary Key.
ShiftId	int		No	Its Foreign key of Shift Table.
ShiftDate	datetime		No	
RegionId	int		Yes	
StartTime	time		No	
EndTime	time		No	
Status	tinyint		No	
IsDeleted	bit		No	
ModifiedBy	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
ModifiedDate	datetime		Yes	
LastRunningDate	datetime		Yes	

EventId	nvarchar	100	Yes	
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Table 5.33 ShiftDetailRegion

Table Name	ShiftDetailRegion			
Field Name	Data Type	Length	Nullable	Comments
ShiftDetailRegionId	int		No	Its Primary Key.
ShiftDetailId	int		No	Its Foreign key of ShiftDetail Table.
RegionId	int		No	Its Foreign key of Region Table.
IsDeleted	bit		Yes	

Table 5.34 SMSLog

Table Name	SMSLog			
Field Name	Data Type	Length	Nullable	Comments
SMSLogID	decimal	9	No	Its Primary Key.
SMSTemplate	nvarchar	MAX	No	
MobileNumber	nvarchar	50	No	
ConfirmationNumber	nvarchar	200	Yes	
RoleId	int		Yes	
AdminId	int		Yes	
RequestId	int		Yes	
PhysicianId	int		Yes	
CreateDate	datetime		No	
SentDate	datetime		Yes	
IsSMSSent	bit		Yes	
SentTries	int		No	
Action	int		Yes	

Table 5.35 User

Table Name	User			
Field Name	Data Type	Length	Nullable	Comments
UserId	int		No	Its Primary Key.
AspNetUserId	nvarchar	128	Yes	Its Foreign key of AspNetUsers Table.
FirstName	nvarchar	100	No	
LastName	nvarchar	100	Yes	
Email	nvarchar	50	No	
Mobile	nvarchar	20	Yes	
IsMobile	bit		Yes	
Street	nvarchar	100	Yes	
City	nvarchar	100	Yes	
State	nvarchar	100	Yes	
RegionId	int		Yes	
ZipCode	nvarchar	10	Yes	
strMonth	nvarchar	20	Yes	
intYear	int		Yes	
intDate	int		Yes	
CreatedBy	nvarchar	128	No	
CreatedDate	datetime		No	
ModifiedBy	nvarchar	128	Yes	
ModifiedDate	datetime		Yes	
Status	tinyint		Yes	
IsDeleted	bit		Yes	
IP	nvarchar	20	Yes	
IsRequestWithEmail	bit			

Interface Design



Fig 5.3 Landing Page

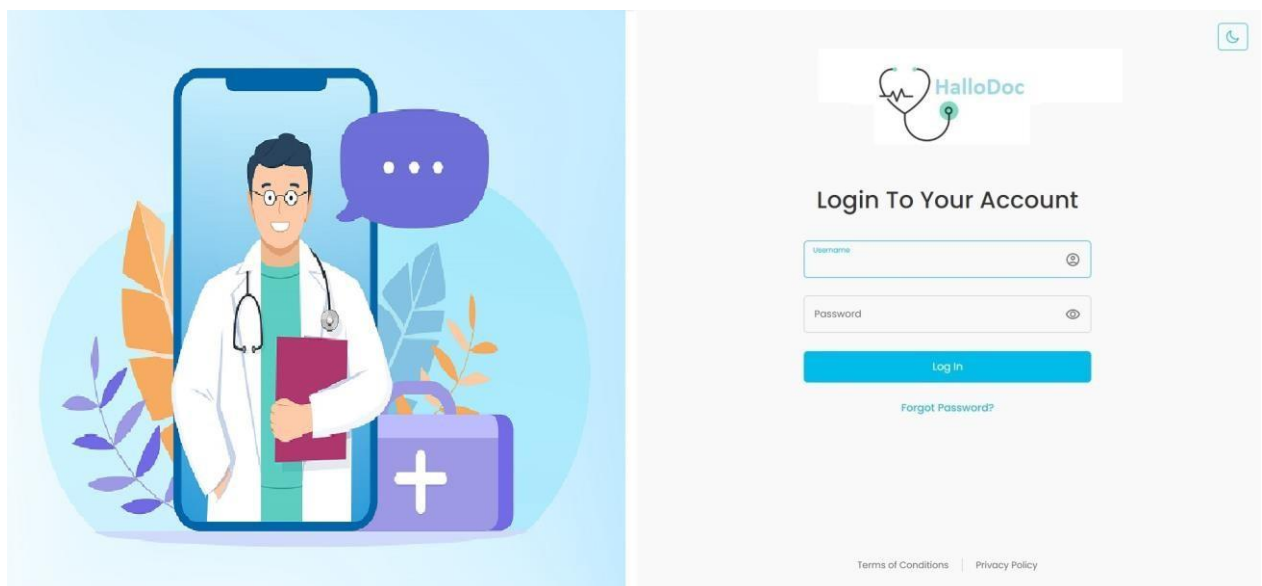


Fig 5.4 Login Page

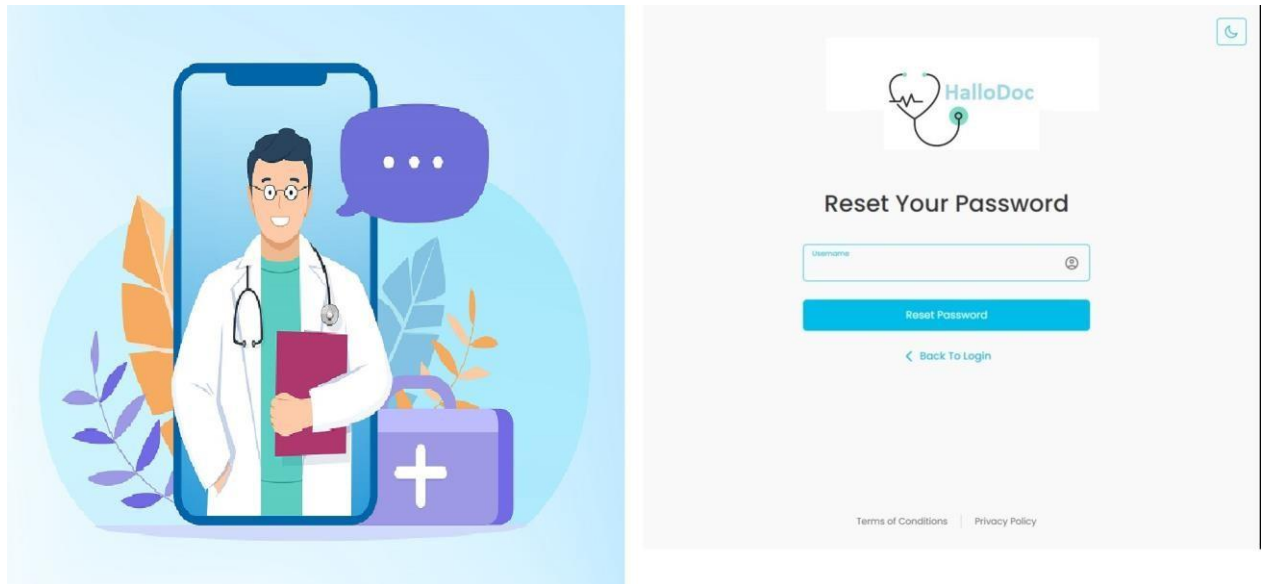


Fig 5.5 Reset Password Page

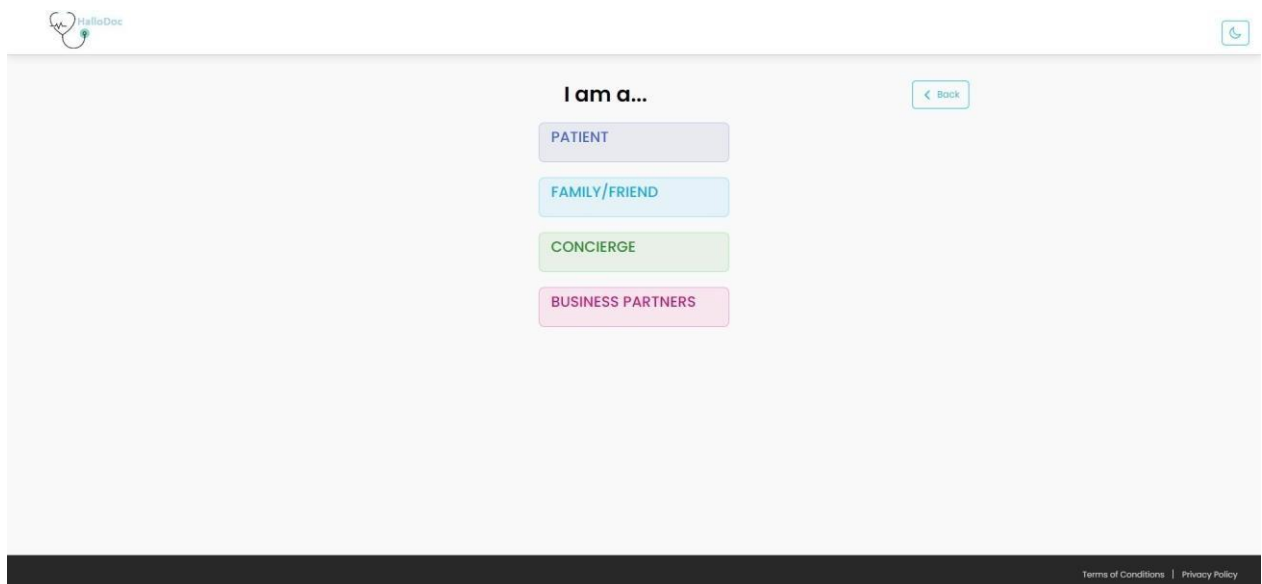


Fig 5.6 Select Role Page

Submit Request Page

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Patient Information

Enter Brief Details Of Symptoms (Optional)

First Name: Last Name:

Date Of Birth:

Patient Contact Information

Email: Phone:

Patient Location

Street: City:

State: Zip Code:

Room # / Suite (Optional):

(Optional) Upload Photo or Document

Select File

Fig 5.7 Submit Request Page

Info Alert Page

Your First Name: Your Last Name:

Phone:

Relation With Patient:

Patient Information

Enter Brief Details Of Symptoms (Optional)

First Name:

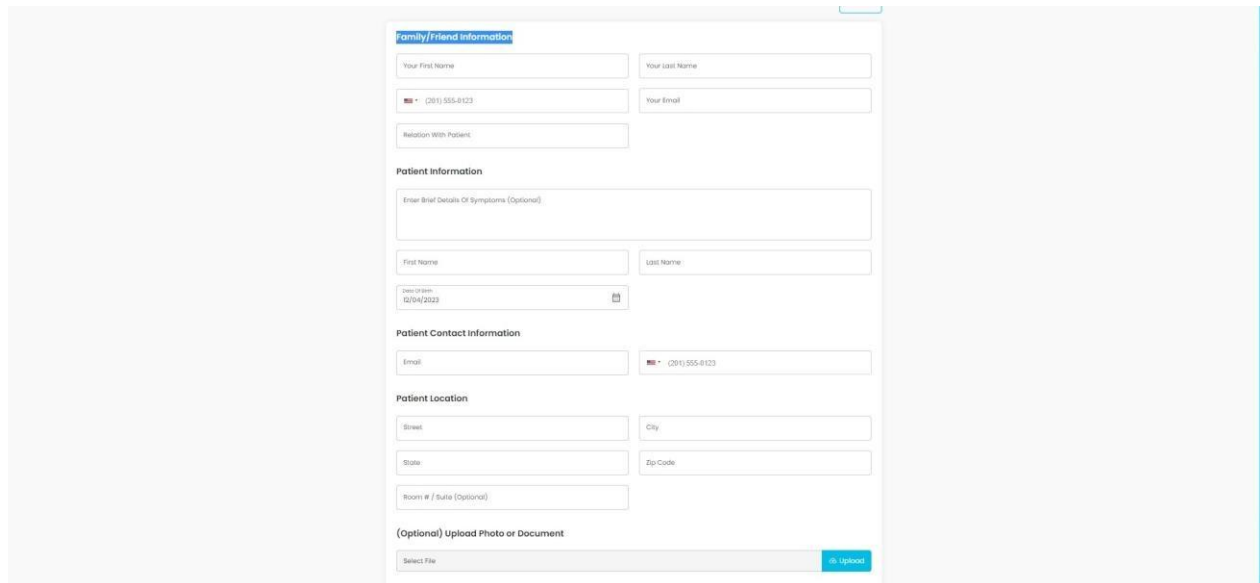
Date Of Birth:

Patient Contact Information

Information

When submitting a request, you must provide the correct contact information for the patient or the responsibly party. Failure to provide the correct email and phone number will delay service or be declined.

Fig 5.8 Info Alert Page



Family/Friend Information

Your First Name Your Last Name

(201) 555-0123 Your Email

Relation With Patient

Patient Information

Enter Brief Details Of Symptoms (Optional)

First Name Last Name

Date of Birth 12/04/2023

Patient Contact Information

Email (201) 555-0123

Patient Location

Street City

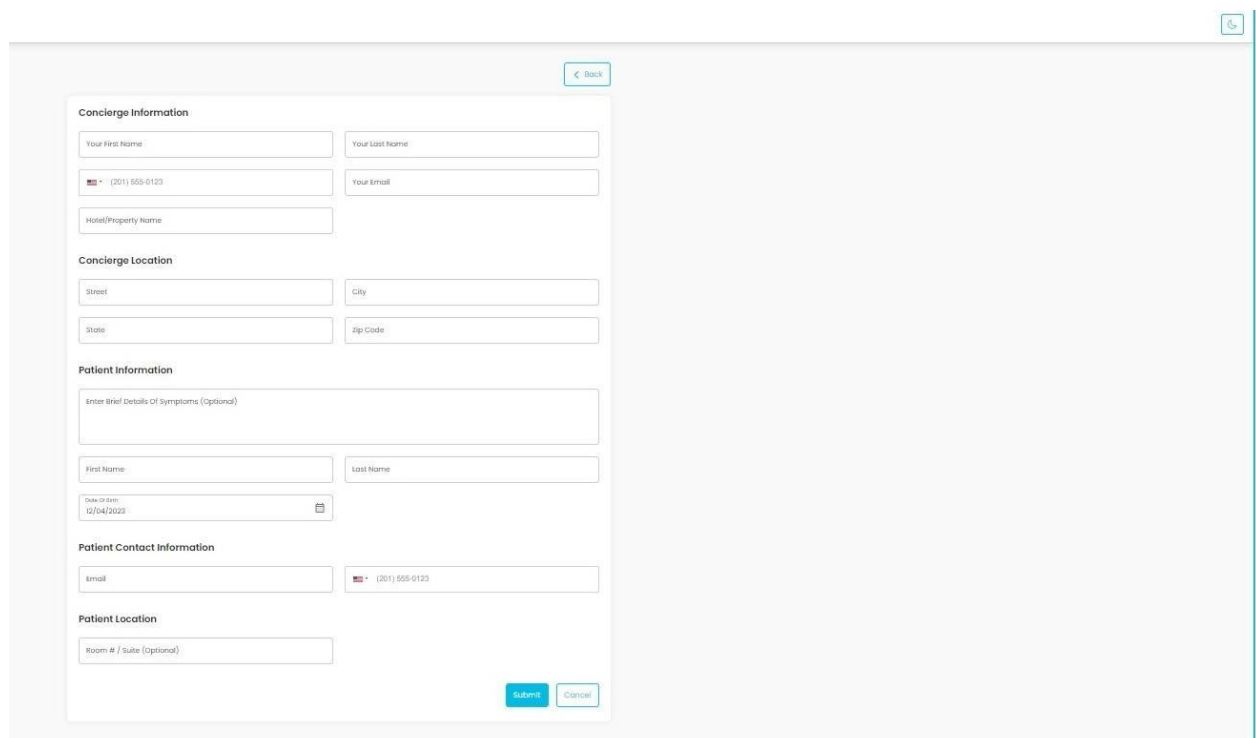
State Zip Code

Room # / Suite (Optional)

(Optional) Upload Photo or Document

Select File

Fig 5.9 Family/Friend Request Page



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Concierge Information

Your First Name Your Last Name

(201) 555-0123 Your Email

Hotel/Property Name

Concierge Location

Street City

State Zip Code

Patient Information

Enter Brief Details Of Symptoms (Optional)

First Name Last Name

Date of Birth 12/04/2023

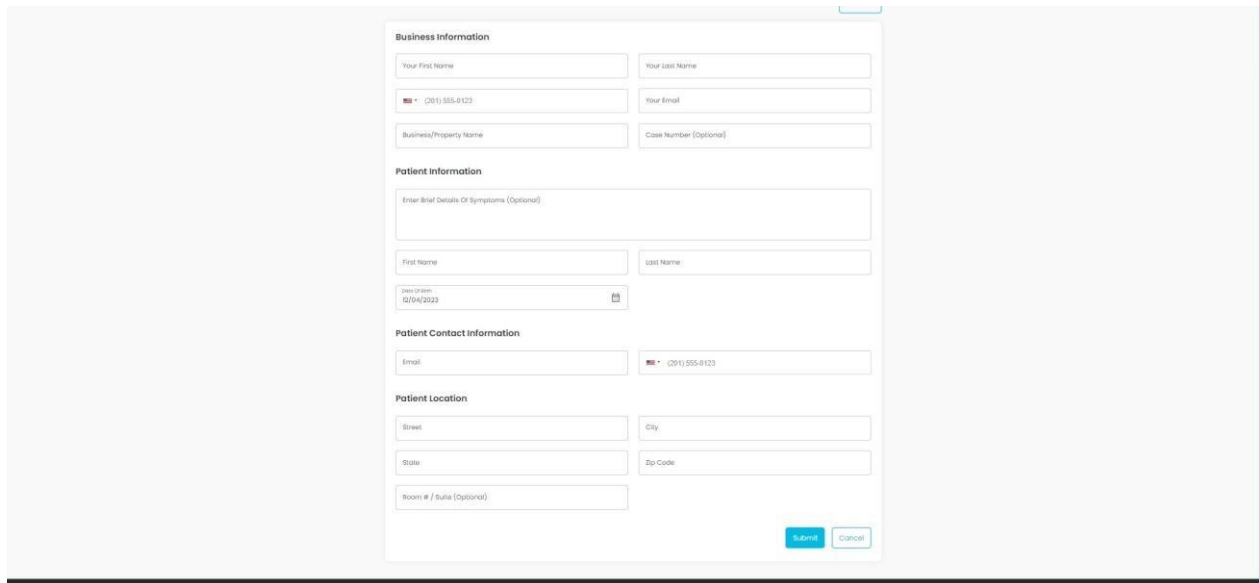
Patient Contact Information

Email (201) 555-0123

Patient Location

Room # / Suite (Optional)

Fig 5.10 Concierge Request Page



Business Information

Your First Name Your Last Name

(201) 555-0123 Your Email

Business/Property Name Case Number (Optional)

Patient Information

Enter Brief Details Of Symptoms (Optional)

First Name Last Name

Date of Birth 02/04/2023

Patient Contact Information

Email (201) 555-0123

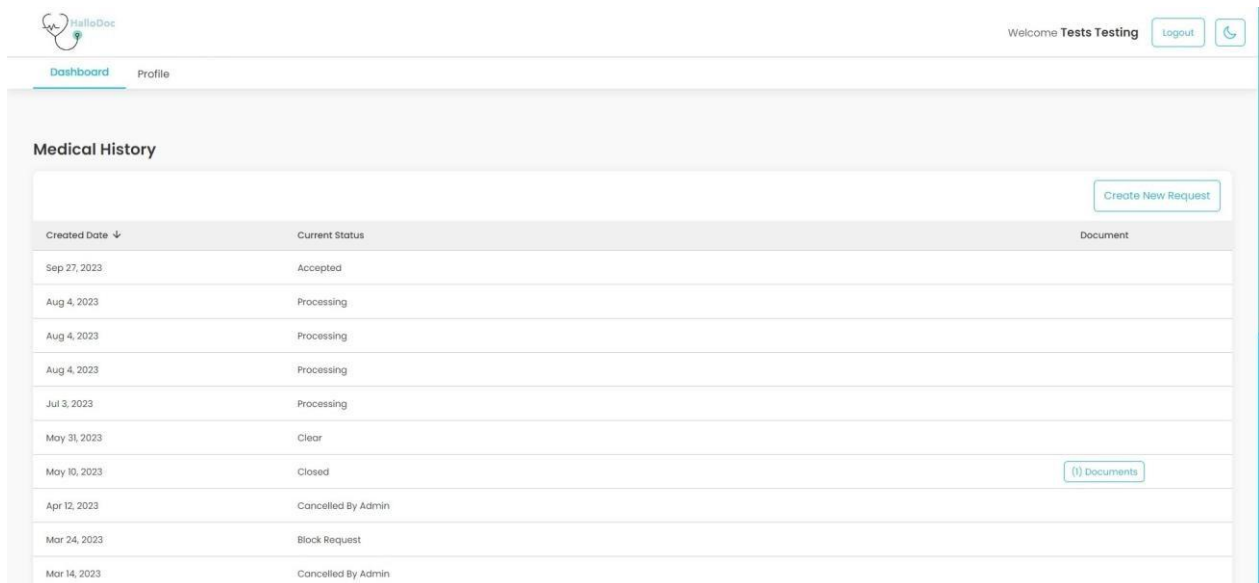
Patient Location

Street City

State Zip Code

Room # / Suite (Optional)

Fig 5.11 Business Request Page



halloDoc

Welcome Tests Testing

Dashboard Profile

Medical History

Created Date ↓	Current Status	Document
Sep 27, 2023	Accepted	
Aug 4, 2023	Processing	
Aug 4, 2023	Processing	
Aug 4, 2023	Processing	
Jul 3, 2023	Processing	
May 31, 2023	Clear	
May 10, 2023	Closed	<input type="button" value="Documents"/>
Apr 12, 2023	Cancelled By Admin	
Mar 24, 2023	Block Request	
Mar 14, 2023	Cancelled By Admin	

Fig 5.12 Patient Dashboard Page

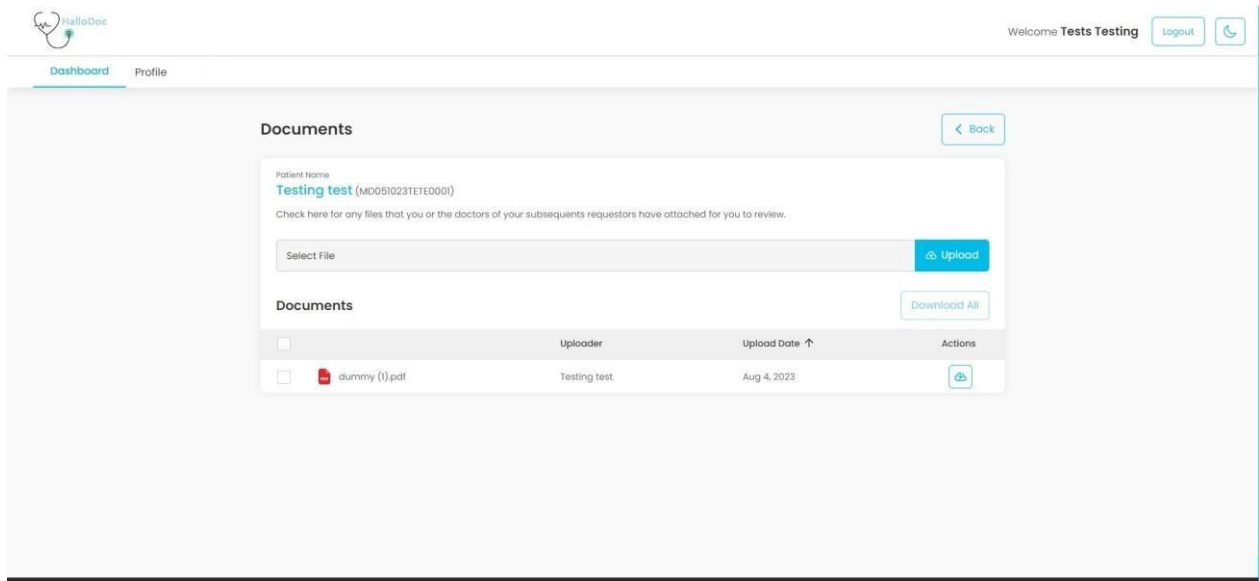


Fig 5.13 View Documents Page

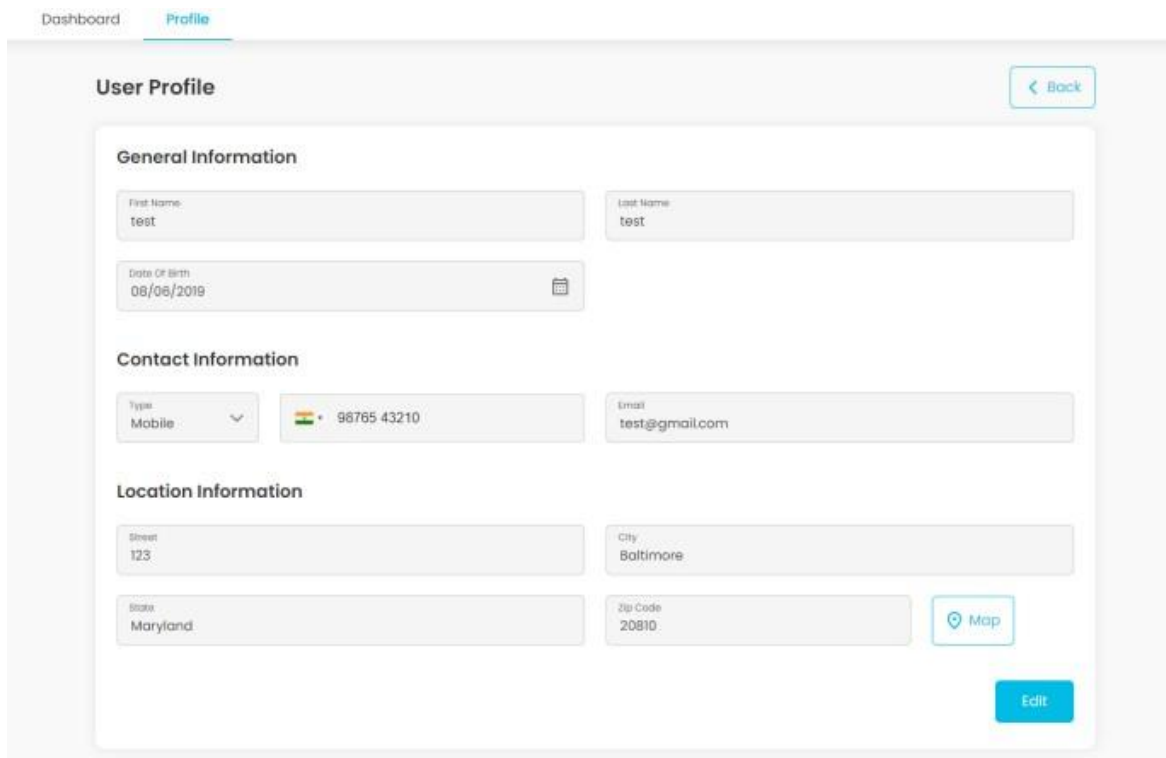


Fig 5.14 Patient Profile Page

The screenshot shows a web application interface with a 'Medical History' table and a 'Create New Request' modal dialog.

Medical History Table:

Created Date ↓	Current Status	Document
Sep 27, 2023	Accepted	
Aug 4, 2023	Processing	
Aug 4, 2023	Processing	
Aug 4, 2023	Processing	
Jul 3, 2023	Processing	
May 31, 2023	Clear	Admin Provider
May 10, 2023	Closed	Admin Provider (1) Documents
Apr 12, 2023	Cancelled By Admin	Admin Provider
Mar 24, 2023	Block Request	Admin Provider

Create New Request Modal:

Here, I want to create new request for...

Buttons: Me, Some One Else, Continue, Cancel

Fig 5.15 Patient Request Page

The screenshot shows the 'Submit Information' page for a patient request. It includes sections for Patient Information, Patient Contact Information, Patient Location, and an optional upload section.

Submit Information

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Patient Information

Enter Brief Details Of Symptoms (Optional):

First Name: Tests

Last Name: Testing

Date Of Birth: 12/11/2023

Patient Contact Information

Email: meghna.tatvasoft2020@gmail.com

Phone: 075749 06004

Patient Location

Street: City:

State: Zip Code:

Room # / Suite (Optional): [Map](#)

Upload Photo or Document (Optional)

Select File: [Upload](#)

[Submit](#) [Cancel](#)

Fig 5.16 Patient Request for Me Page

Fig 5.17 Patient Request for someone else Page

Name	Date Of Birth	Requestor	Requested Date	Phone	Address	Notes	Chat With	Actions
test, test	Jun 16, 2023 (0)	Patient test, test	Nov 20, 2023 335h 2m 02m	+1 (202) 456-1237 (Patient)	Room location : 101	-	Provider	Assign Case, Cancel Case, View Case, View Notes, Block Patient
testP, testP	Oct 20, 2023 (0)	Patient testP, testP	Oct 20, 2023 10:76h 42m	+91 078945 6456 (Patient)	123 ballimore, maryland 20810	-	Provider	Assign Case, Cancel Case, View Case, View Notes, Block Patient
name, patient	Oct 18, 2023 (0)	Concierge Tatvasoft	Oct 18, 2023 1119h 40m	+1 (202) 714-5789 (Patient), +1 (202) 564-7894 (Concierge)	123 ballimore, maryland 20810	-	Concierge	Assign Case, Cancel Case, View Case, View Notes, Block Patient

Fig 5.18 Admin Dashboard - New State Dashboard

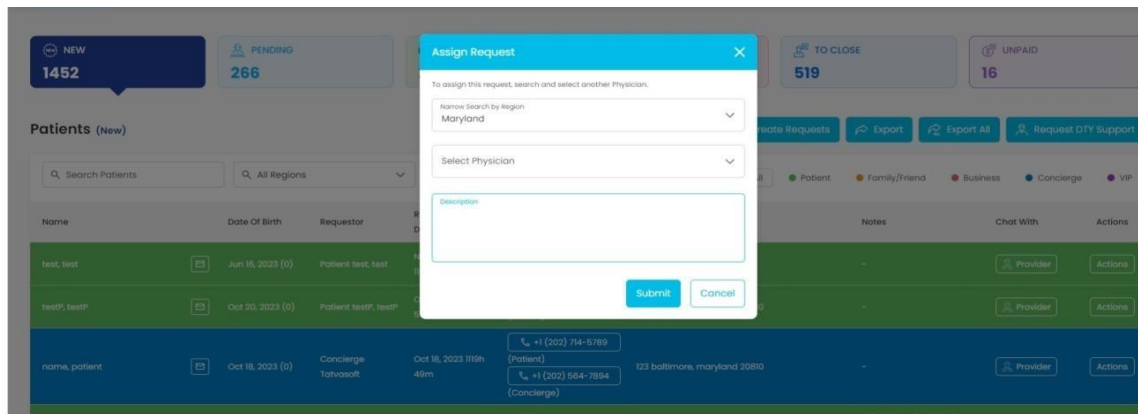


Fig 5.19 Assign Case

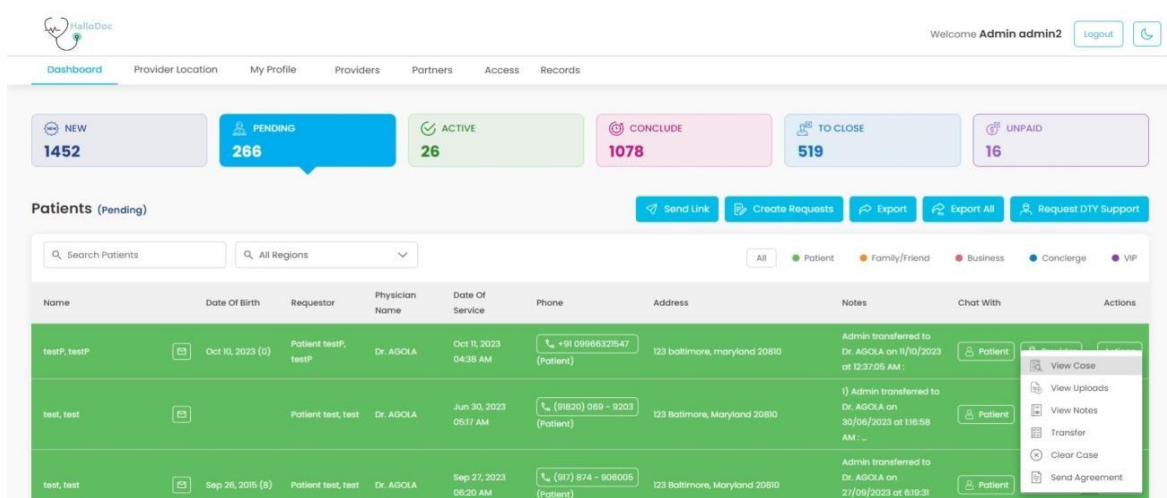


Fig 5.20 Pending State Dashboard

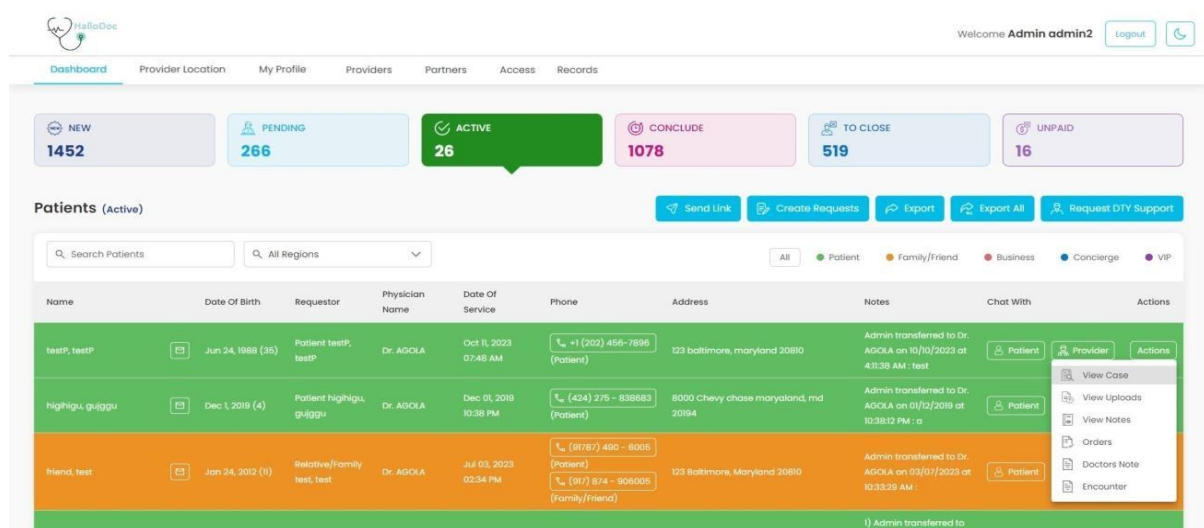


Fig 5.21 Active State Dashboard

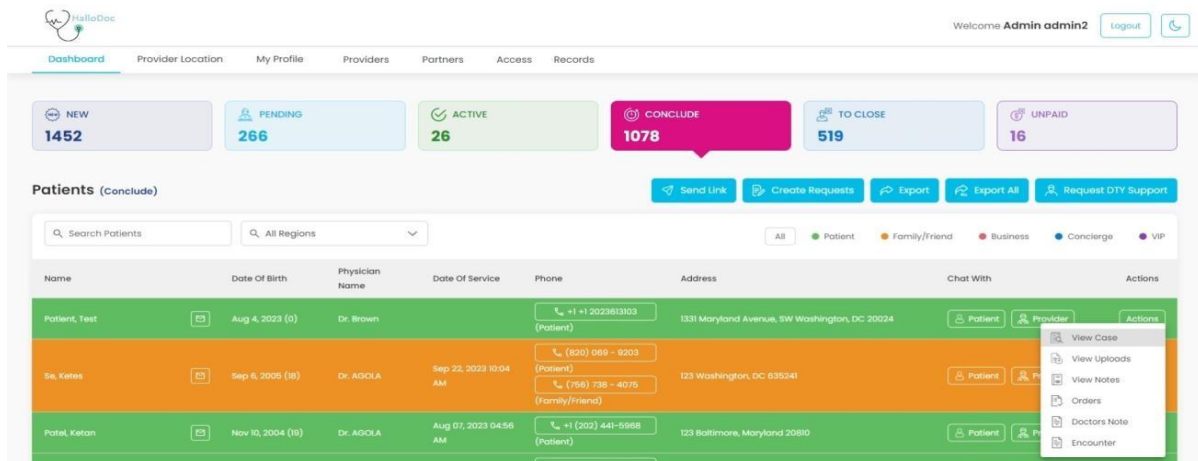


Fig 5.22 Conclude State Dashboard

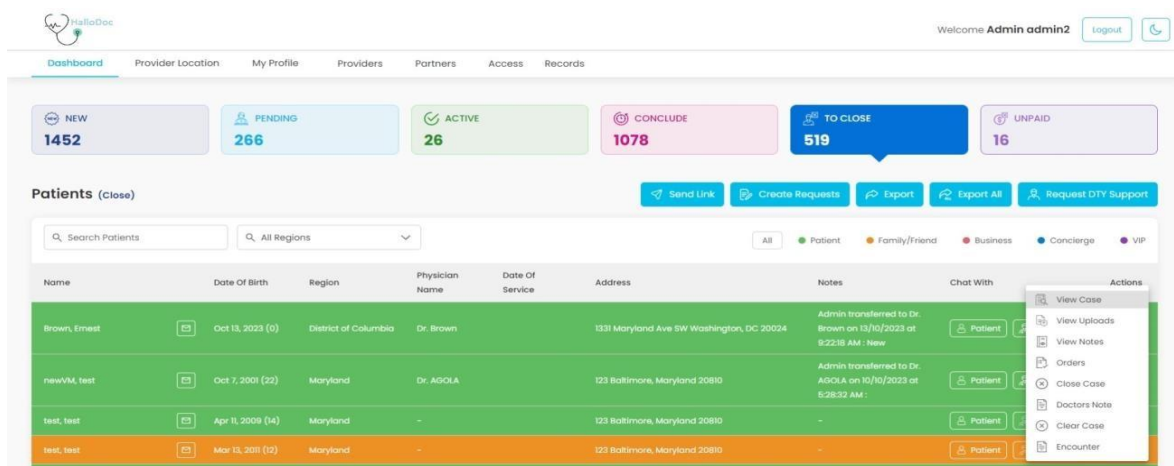


Fig 5.23 To Close State Dashboard

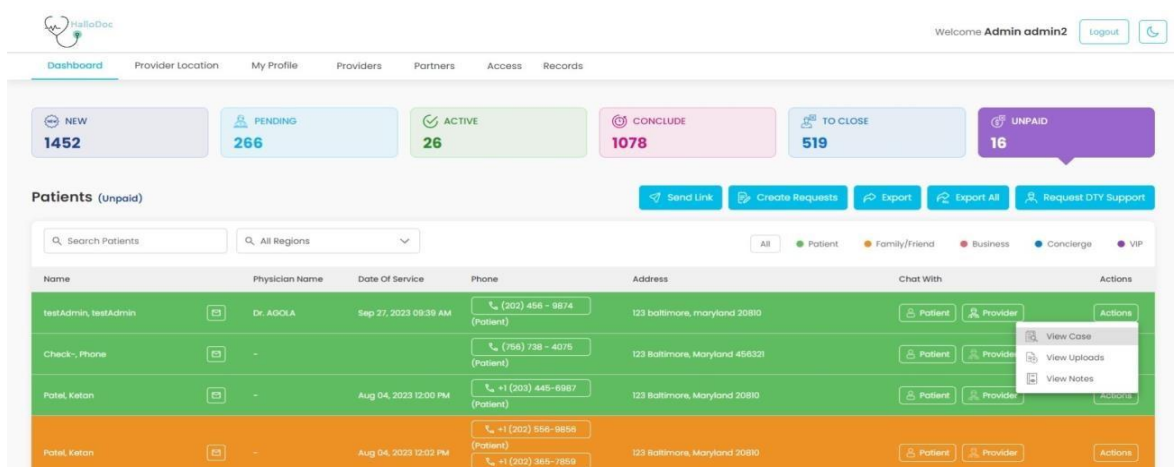


Fig 5.24 Unpaid State Dashboard

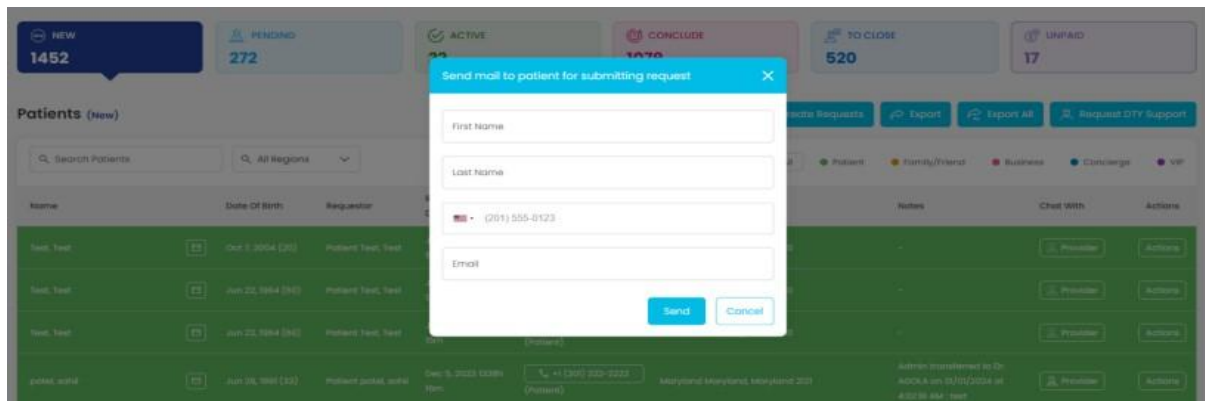


Fig 5.25 Send Mail

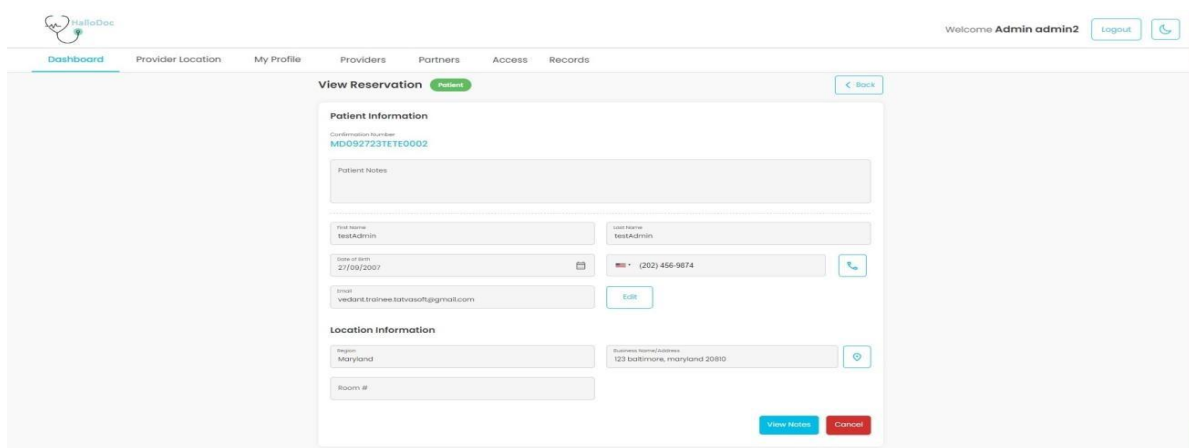


Fig 5.26 View Case

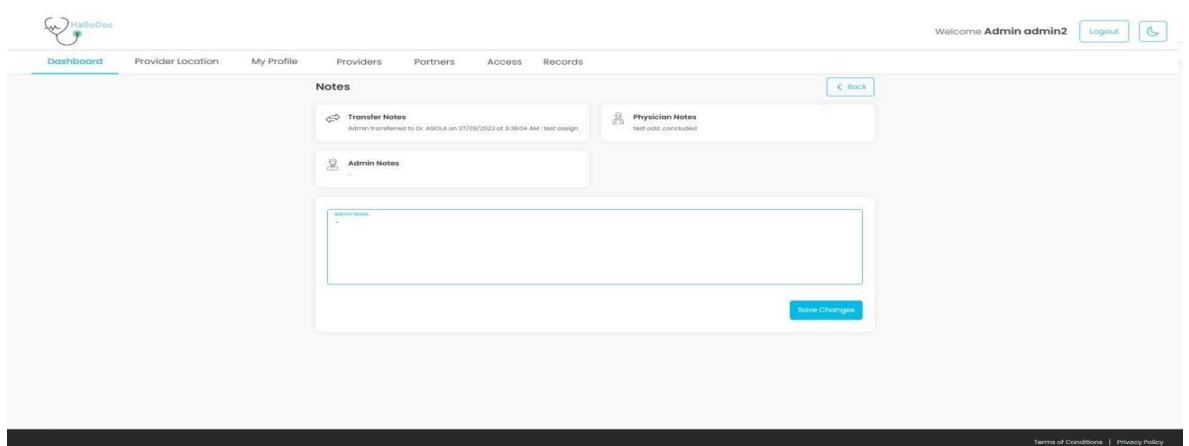


Fig 5.27 View Notes

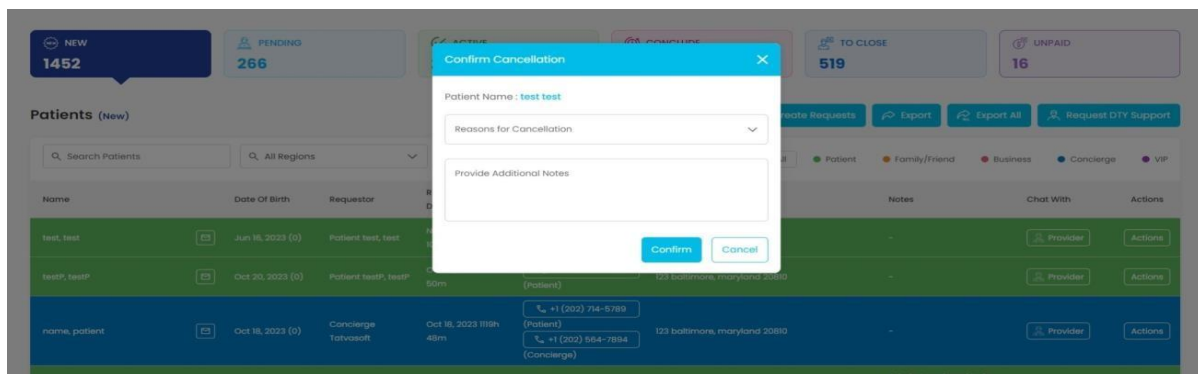


Fig 5.28 Cancel Case

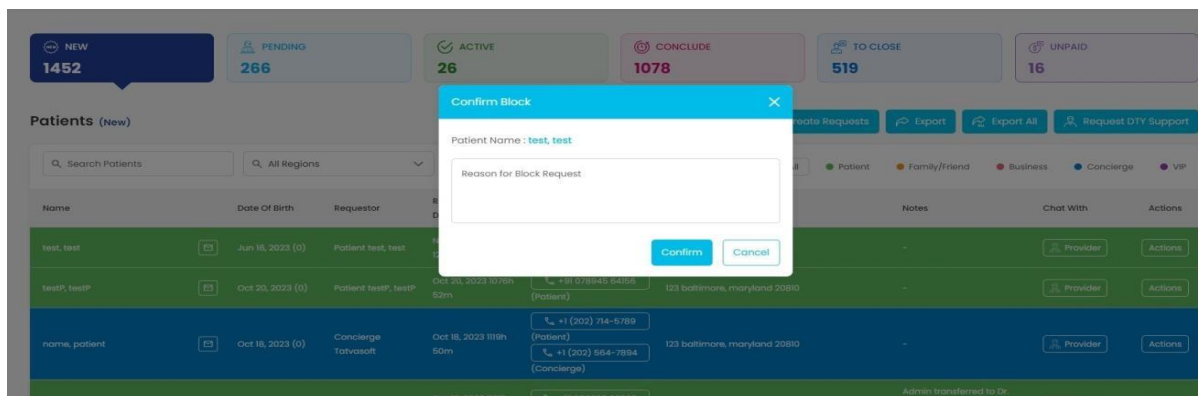


Fig 5.29 Block Case

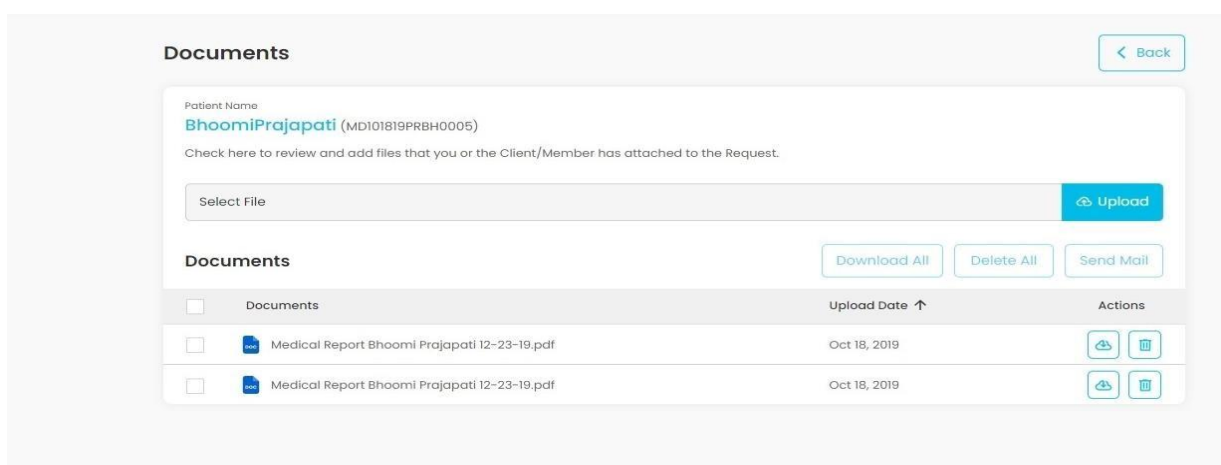


Fig 5.30 View Uploads Admin

Transfer Request

To transfer this request, search and select another Physician.

Name Search by Region
Maryland

Select Physician

Description

Submit Cancel

Fig 5.31 Transfer Case

Confirmation for clear case

Are you sure you want to clear this request? Once clear this request then you are not able to see this request.

Clear Cancel

Fig 5.32 Clear Case

Send Order

Select Profession

Business

Business contact

Email

Fax Number

Prescription or Order details

Number of Units
Not required

Submit Cancel

Fig 5.33 Send Orders

[Dashboard](#) [My Schedule](#) [My Profile](#)

Encounter Form

[< Back](#)

Medical Report-Confidential

First Name Ketes		Last Name Se	
Location 123, Washington, DC, 635241			
Date Of Birth 06/09/2005		Date 06/09/2018	
Phone (202) 456-7896		Email test@gmail.com	
History Of Present Illness Or Injury		Medical History	
Medications		Allergies	
Temp	HR	RR	
Blood Pressure(S...	Blood Pressure(D...	O2	Pain
Heent	CV		
Chest	ABD		
Extr	Skin		
Neuro	Other		
Diagnosis	Treatment Plan		
Medications Dispensed	Procedures		
Followup			

[Save Changes](#) [Finalize](#) [Cancel](#)

Fig 5.34 Encounter - Admin

Dashboard Provider Location **My Profile** Providers Partners Access Records

My Profile

[Back](#)



Account Information

Administrator Information

☒ District Of Columbia
 ☒ New York
 ☒ Virginia
 ☒ Maryland

Mailing & Billing Information

Fig 5.35 Profile - Admin


Welcome **Admin admin2**
[Logout](#)


Dashboard Provider Location **My Profile** **Providers** Partners Access Records

Provider Information

[Create Provider Account](#)

[Provider](#)
[Scheduling](#)
[Invoicing](#)

Stop Notification	Provider Name ↑	Role	On Call Status	Status	Actions
<input type="checkbox"/>	145123, 123123	MyName@S	Un Available	Pending	Contact Edit
<input checked="" type="checkbox"/>	AGOLA, Nikunj	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	Brown, Ernest	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	ahamane, arpit	Physician	Un Available	Active	Contact Edit
<input type="checkbox"/>	file, TestFileUpload	testf	Un Available	Pending	Contact Edit
<input type="checkbox"/>	NewTestUpload, testers	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	P, Admin	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	Parekh, vishal	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	Patel, Varun	Physician	Un Available	Active	Contact Edit
<input checked="" type="checkbox"/>	Patelg, Meetingg	Physician	Un Available	Active	Contact Edit

Fig 5.36 Provider Information - Admin

Chapter

6

6. IMPLEMENTATION

Implementation Platform

Module Specification

IMPLEMENTATION

Implementation Platform

- Visual Studio

Visual Studio is a comprehensive integrated development environment (IDE) developed by Microsoft. It offers advanced features for code editing, debugging, project management, version control integration, testing, and performance profiling. Visual Studio is available in different editions, including Community, Professional, and Enterprise, catering to various developer needs. It supports development for multiple platforms and seamlessly integrates with other Microsoft development tools and services, facilitating end-to-end application development and deployment workflows.

- Meet IntelliSense.

Go beyond syntax highlighting and auto complete with IntelliSense, which provides smart completions based on variable types, function definitions, and imported modules.

- Print statement debugging is a thing of the past

Debug code right from the editor. Launch or attach to your running apps and debug with break points, call stacks, and an interactive console.

- Git commands built-in

Working with Git and other SCM providers has never been easier. Review different, stage files, and make commits right from the editor. Push and pull from any hosted SCM service.

- Deploy with confidence and ease

With Microsoft Azure you can deploy and host your React, Angular, Node, Python (and more!) sites, store and query relational and document based data, and scale with server less computing, all with ease, all from within VS.

Module Specification

This website is going to be used by mainly 3 kinds of user that deals with this application:

1. Admin

2. Provider

3. Patient (User)

1. Admin:

- Role: The admin user has overarching control and management responsibilities within the healthcare system.
- Responsibilities:
 - Manage user accounts and permissions, including creating, modifying, and deleting accounts as needed.
 - Configure system settings and preferences, such as appointment scheduling rules and billing parameters.
 - Monitor system performance and resolve technical issues or security concerns.
 - Generate reports and analytics to track key performance indicators and assess system usage.
 - Ensure compliance with regulatory requirements and standards for healthcare data privacy and security.
 - Collaborate with providers and patients to gather feedback and implement system improvements.

2. Provider:

- Role: The provider user includes healthcare professionals who deliver medical services within the system.
- Responsibilities:

- Conduct virtual consultations with patients, including diagnosing medical conditions, prescribing medications, and developing treatment plans.
- Review patient medical records and history to provide personalized care and recommendations.
- Document patient encounters accurately and comprehensively, ensuring all relevant information is captured for continuity of care.
- Collaborate with other healthcare providers and specialists as needed for multidisciplinary care.
- Communicate with patients effectively and compassionately, addressing their concerns and providing education on health management.
- Stay updated on medical best practices and guidelines to deliver high-quality care and improve patient outcomes.

3. Patient:

- Role: The patient user represents individuals seeking healthcare services and managing their health within the system.
- Responsibilities:
 - Schedule appointments with healthcare providers, including selecting preferred dates and times for consultations.
 - Provide accurate and complete medical history information during consultations to facilitate diagnosis and treatment.
 - Participate actively in virtual consultations, asking questions, expressing concerns, and following provider recommendations.
 - Adhere to prescribed treatment plans, including taking medications as directed and attending follow-up appointments.
 - Communicate openly and honestly with healthcare providers about symptoms, changes in health status, or treatment adherence issues.
 - Access educational resources and tools within the system to learn about health conditions, preventive care measures, and lifestyle management strategies.

Chapter

7

7. TESTING

Testing Cases

TESTING

Testing Cases

Testing: - Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and code generation.

Table 7.1 Test Cases 01 - Registration

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Click Register Button	Blank Fields	Give the message of mandatory field	Give Validation message to enter mandatory field	PASS
2	All Data would be entered	Enter All Data Name: ABC, email: ABC@gmail.com , password : 123456	Give the message of Register Successfully	Register Successfully	PASS

Table 7.2 Test Cases 02 - Login

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Click Login Button	Blank Fields	Give the message of mandatory field	Give Validation message to enter mandatory field	PASS
2	All Data would be entered	Enter All Data email: ABC@gmail.com , password: 123456	Give the message of Login Successfully	Login Successfully	PASS

Table 7.3 Test Case 03 – Request Form

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Add Address	Blank Fields	Give the message of mandatory field	Give Validation message to enter mandatory field	PASS

2	All Data would be entered	Enter All Data email: ABC@gmail.com , Name: Delvadiya Shyam, Address: “Shyam”, Krishna Park, Jamjodhpur zip code: 360530, state: Gujarat, country: India, mobile no: 9879879870	Give the message of Add Successfully	Add Successfully	PASS
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Table 7.4 Test Cases 04 – PopUp Form

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Pay	Blank Fields	Give the message of mandatory field	Give Validation message to enter mandatory field	PASS
2	All Data would be entered	Enter All Data	Give the message of Success	<i>Success</i>	PASS

Chapter

8

8. CONCLUSION AND DISCUSSION

Overall Analysis of Internship

Problem Encountered and possible solutions

Limitation and future Work

CONCLUSION AND DISCUSSION

Overall Analysis of Internship

1. Since the very first day of internship, I learned a lot of new things from the respected industry guides and fellow interns.
2. First of all, started from basics of C#.
3. Then learned Scrum methodology.
4. Overview of MVC – Entity Frame Work is given.
5. SQL is covered.
6. HTML and CSS overview is also given.
7. Project work is assigned.
8. Project work is completed and report is prepared.

Problem Encountered and Possible Solutions

Problem Encountered:

- The website interface might not be intuitive or user friendly.
- Users may require separate installations for body measurement functionalities.

Possible Solutions:

- Revamp the website interface to prioritize user-friendliness and responsiveness.
- Integrate body measurement features seamlessly within the platform, eliminating the need for separate installations.

Limitation

1. Limited physical examination capabilities.
2. Potential challenges with connectivity in remote areas.
3. Dependence on user's technological proficiency for effective use.

Future Enhancement

1. Integration of AI for enhanced diagnostics.
2. Expansion of services to include specialist consultations.
3. Implementation of wearable technology for remote patient monitoring.

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