HalloDoc System

Semester - VIII

AN INTERNSHIP REPORT

Submitted by

Sohil Rameshbhai Vekariya
200280116002

In fulfilment for the award of the degree of

BACHELOR OF ENGINEERING
in

Information Technology

L.D. ENGINEERING COLLEGE - AHMEDABAD

Gujarat Technological University, Ahmedabad

April, 2024

L.D. Engineering College – Ahmedabad
380015

CERTIFICATE

This is to certify that the Internship report submitted along with the entitled **HalloDoc** has been carried out by **Sohil Rameshbhai Vekariya** under my guidance in partial fulfilment of the degree of Bachelor of Engineering in Computer (8th Semester) of Gujarat Technological University, Ahmadabad during the academic year 2022-23.

Internal Guide   **Head of Department**
Prof. Bakul Panchal   Prof Hiteshi Diwanji
Assistant Professor   Associate Professor
LDCE-Ahmedabad   LDCE-Ahmedabad

Date:30ᵗʰ Oct 2023

Training cum Employment offer

Dear Sohil Rameshbhai Vekariya,

We are happy to announce that you are selected in our Training Cum Placement Program for the year 2024. We are delighted to have you in our team and we are sure you will give best of your abilities for the future growth of the company.

You will undergo a training program for 6 months starting from Jan 2024 to June 2024. Job offer will depend upon the performance during training and terms and conditions decided by the company.

During training your technology would be .NET and location would be Ahmedabad. Although changes in technology during training would be as per company decision and your performance.

If employment is confirmed, your annual package will be in range of CTC Rs.4.32 to Rs.4.80 LPA as per the performance in training. Along with the annual package you are also eligible for a monthly bonus for 1 year and an investment bonus as discussed.

This letter of offer is based on the information furnished in your application for employment and during the interviews you had with us. If, at any time in future, it comes to light that any of this information is incorrect or any relevant information has been withheld, then your employment is liable to be terminated without notice or assigning any reason thereof.

We welcome you to our organization and look forward to your contribution to the growth of the organization and yourself.

For TatvaSoft

Authorized Signatory

Date:22nd Apr 2024

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Sohil Rameshbhai Vekariya is selected from LD 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

DECLARATION

I 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 Information Technology to Gujarat Technological University, Ahmedabad, is a bonafide record of original Internship work carried out by me at **Tatvasoft** under the supervision of **Mrs. Sweety Patel** and that no part of this report has been directly copied from any student's reports or taken from any other source, without providing due reference.

Name of the Student   Sign of Student

Sohil Rameshbhai Vekariya   _____

ACKNOWLEDGEMENT

We would like to extend heartiest thanks to Mrs. Sweety Patel (Sr. .NET Developer, Tatvasoft), for supporting us during the internship period. He guided us all the time and motivated us within his busy schedule.

We heartily thank Prof. Hiteshi Diwanji (Head, Information Technology Department) for providing us the opportunity and giving us exposure to pursue our final semester internship at "Tatvasoft" and gain practical working experience from the industry.

Our sincere thanks to Prof. Bakul Panchal (, Information Technology Department) for the unconditional and overwhelming support during the entire session of study and development, also for guiding us throughout the internship period. All the faculties from our department provided us a favourable environment and necessary guidance, without them we would not have achieved our goal. They have always been available for us despite their busy schedule and were always a great source of inspiration for us.

A blend of gratitude, pleasure and great satisfaction is what we feel to convey our indebtedness to all those who have directly and indirectly contributed to the successful completion of the project.

Thanking you,

Sohil Vekariya

ABSTRACT

Industrial training is an important phase of a student's life. A well-planned, properly executed, and evaluated industrial training helps a lot in developing a professional attitude. It develops an awareness of the industrial approach to problem-solving, based on a broad understanding of the process and mode of operation of the organization. The aim and motivation of this industrial training are to receive discipline, skills, teamwork, and technical knowledge through a proper training environment, which will help me, as a student in the field of infomation technology, to develop responsiveness to the self-disciplinary nature of problems in computer industry.

During three months of training at Tatvasoft, I build a webapp of the Hallodoc .Throughout this industrial training, assign web designing part and backend related project.

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List of Abbreviation

SLDC - Software Development Life Cycle

SQL -Structured Query Language

ESS   - Employee Self Service

JSP - Java Server Pages

HTML - Hyper Text Markup Language

CSS - Cascading Style Sheet

MVC - Model View Controller

IDE - Integrated Development Environment

CPU - Central Processing unit

DFD - Data Flow Diagram

ERD - Entity Relationship Diagram

ORM - Object-Relational mapping

JDBC - Java DataBase connectivity

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1. OVERVIEW OF 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

2. INTRODUCTION TO PROJECT / INTERNSHIP AND PROJECT / INTERNSHIP MANAGEMENT

2.1 PROJECT/ INTERNSHIP SUMMARY

HalloDoc is a cutting-edge healthcare platform aimed at revolutionizing patient-doctor interactions. Our mission is to remove barriers to healthcare by offering virtual consultations and diagnostic services, eliminating the need for physical visits. Like effective marketing relies on understanding ideal customers, HalloDoc tailors healthcare solutions by considering individual needs and preferences. With a user-friendly interface, we empower patients to take control of their health conveniently. HalloDoc is committed to transforming healthcare delivery, ensuring accessible and personalized care anytime, anywhere.

2.2 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.

2.3 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.

2.4 TECHNOLOGY AND LITERATURE REVIEW

Front End	Bootstrap, HTML, CSS
Back End	ASP .NET
Database	Postgres

2.5 PROJECT/INTERNSHIP PLANNING

In managing any project, the whole plan of the project is made before its actual implementation. The plan of the project helps the team to work as per the schedule and helps to successfully complete the project. To plan a project the main requirements that are calculated are cost, duration, effort, scheduling, manpower, resource allocation, risk management etc. We plan on taking a time-based approach to deliver this product on time. To begin with, we create a set of deadlines to complete certain tasks. This will give us a general idea on how to meet the final deadline on time.

2.5.1 Project / Internship Development Approach and Justification

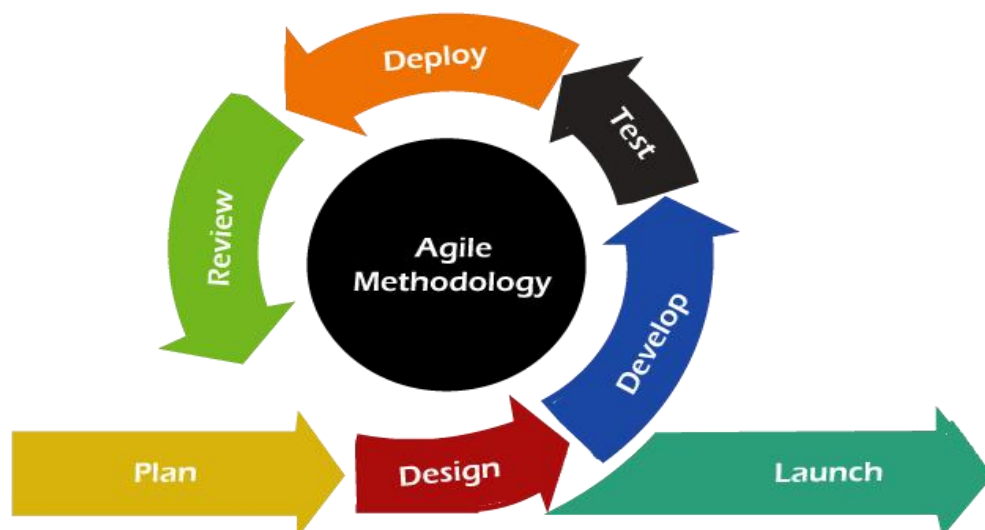Significant constraints are not well understood by the client so we use agile as a project development approach.

Figure 2.5.1 : Agile Methodology

Phases:

- **Plan**: Collecting requirement and make plans for the time and effort needed to build the project

- **Design:** Make data flow diagram or the high-level UML diagram to shoe the work of new features.

- **Develop**: Implement the requirement for current iteration.

- Test: Quality Assurance team examine the product's performance and look for the bug.

- **Deploy**: Deploy the project into production server so user can use the functionalities.

- **Review**: Collect feedback of user experience from the user and improve system based on feedback.

- **Launch**: If client feedback is positive then our iteration is ready to launch.

2.5.2 Roles and Responsibilities

As this was my learning project so on this project my role is to Analyze the requirement, Designing the project, Coding, Testing the application, and make a documentation report on it

2.6 PROJECT / INTERNSHIP SCHEDULING (Gantt Chart / PERT /Network Chart)

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												▓	▓

Figure 2.6.1: Gantt Chart

3. SYSTEM ANALYSIS

3.1 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.

3.2 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

3.3 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

3.4 FESIBILITY STUDY

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**

4. SYSTEM DESIGN

4.1 SYSTEM DESIGN AND METHODOLOGY

Systems design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering.

Architectural Design

The architectural design of a system emphasizes the design of the system's architecture that describes the structure, behaviour and more views of that system and analysis.

Logical Design

The logical design of a system pertains to an abstract representation of the data flows, inputs and outputs of the system. This is often conducted via modelling, using an over-abstract (and sometimes graphical) model of the actual system. In the context of systems, designs are included.

Physical Design

The physical design relates to the actual input and output processes of the system. This is explained in terms of how data is input into a system, how it is verified/authenticated, how it is processed, and how it is displayed. In physical design, the following requirements about the system are decided.

●   Input requirement

●   Output requirements

●   Storage requirements

●   Processing requirements

User Interface Design is concerned with how users add information to the system and with how the system presents the information back to them. Data Design is concerned with how the data is represented and stored within the system. Finally, Process Design is concerned with how data moves through the system, and with how and where it is validated, secured and/or transformed as it flows into, through and out of the system. At the end of the system design phase, documentation describing the three subtasks is produced and made available for use in the next phase. Physical design, in this context, does not refer to the tangible physical design of an information system. To use an analogy, a personal computer's physical design involves input via a keyboard, processing within the CPU, and output via a monitor, printer, etc. It would not concern the actual layout of the tangible hardware, which for a PC would be a monitor, CPU, motherboard, hard drive, modems, video/graphics cards, USB slots, etc. It involves a detailed design of a user and a product database structure processor and a control processor.

- Output requirement
- Storage requirements
- Processing requirements

4.2 ARCHITECTURAL DESIGN

4.2.1 Use case Diagram:

• Actors for support Ecommerce platform
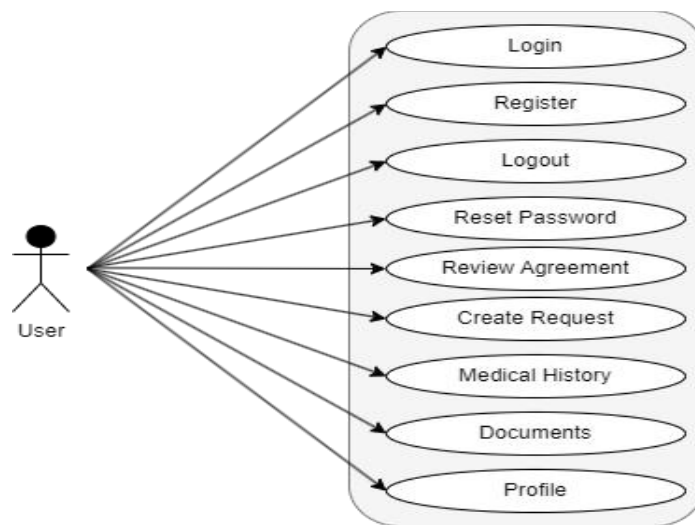
o Admin o User o Provider
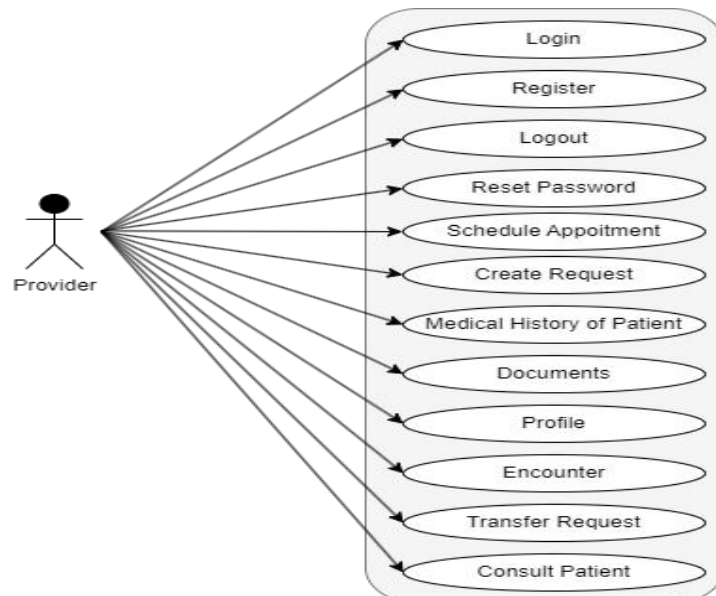

Figure 4.2.1.1: User - Use case diagram
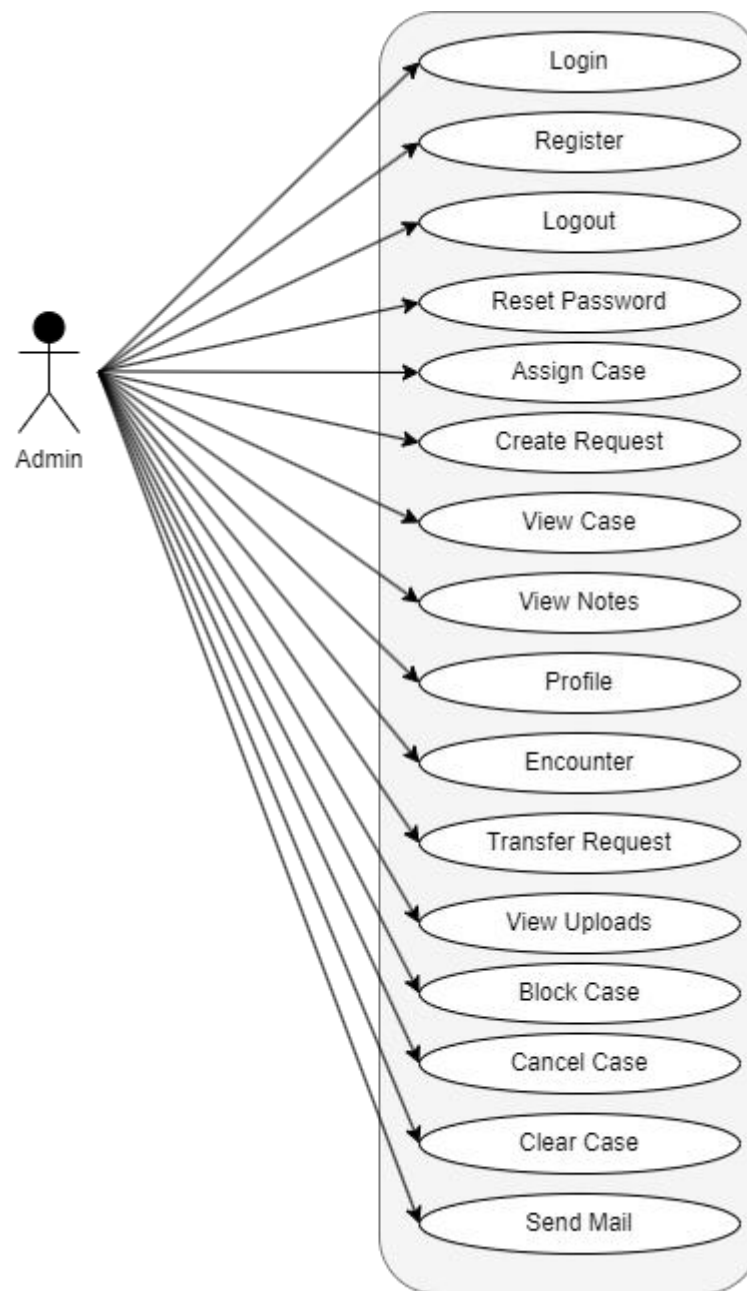

Figure 4.2.1.2: Provider - Use case diagram

Figure 4.2.1-3: Admin - Use case diagram
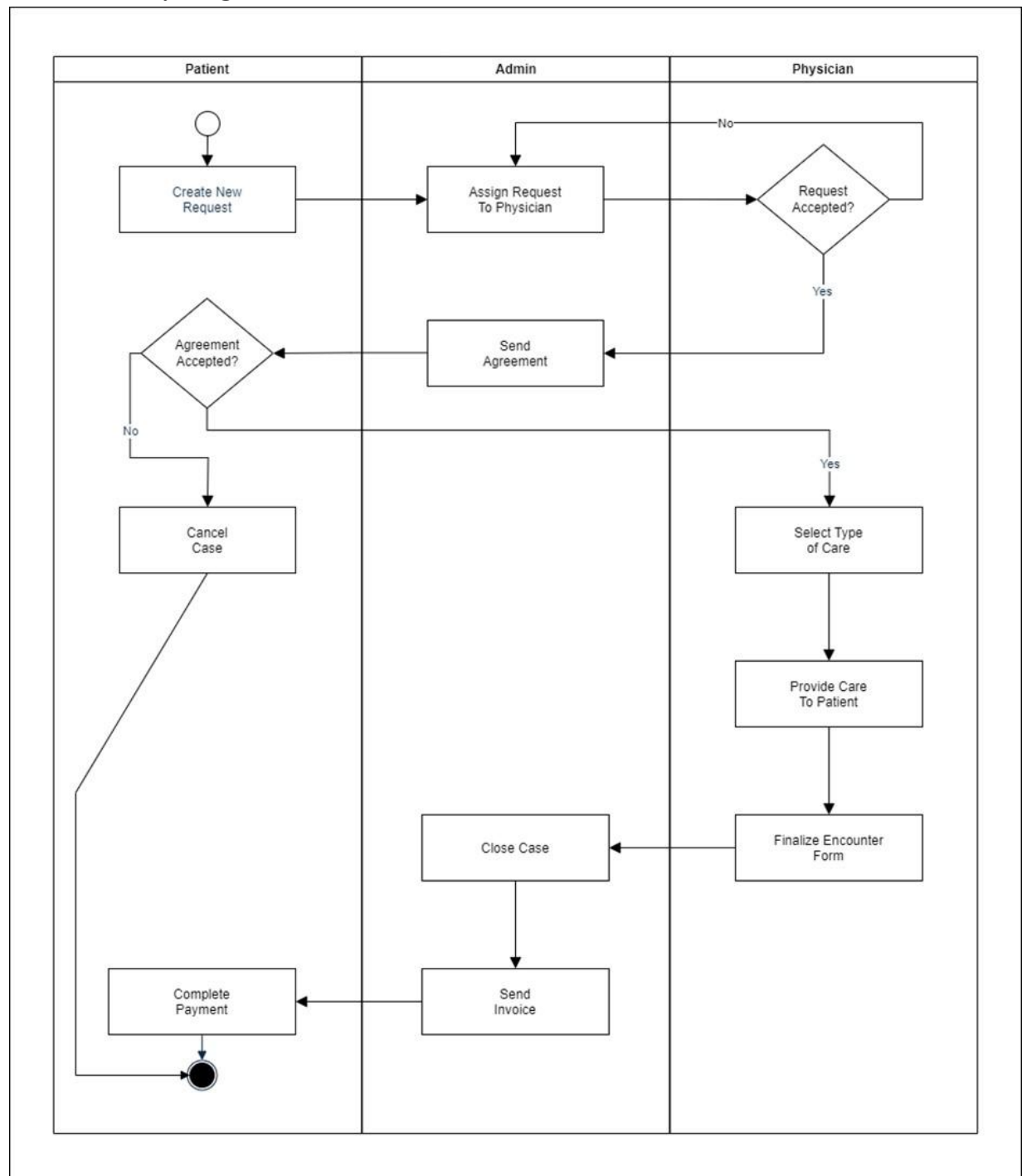
4.2.2 Activity Diagram:

Activity Diagram

Figure 4.2.2: Activity Diagram

4.2.3 DFD Level 0 Diagram (Context Diagram):

This level 0 DFD shows the main entities in the Employee Self-Service system: the employee and the system. The employee logs in to the system and can then request or view various features such as attendance, leave, employee, holiday, and event. The system then interacts with the database to retrieve or store the necessary information.
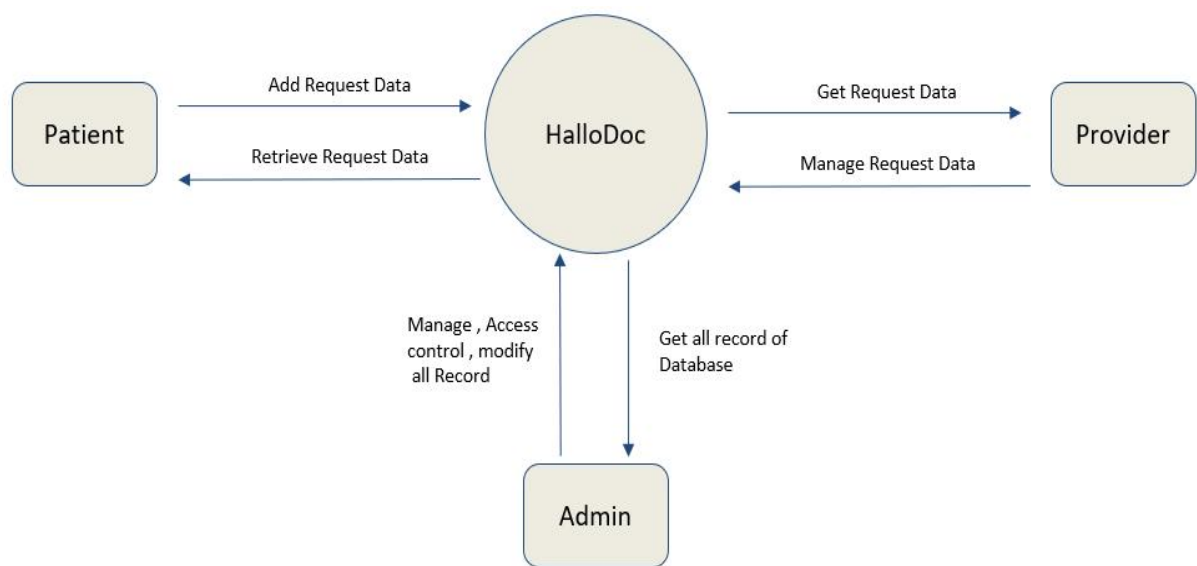

Figure 4.2.3:DFD level 0 Diagram
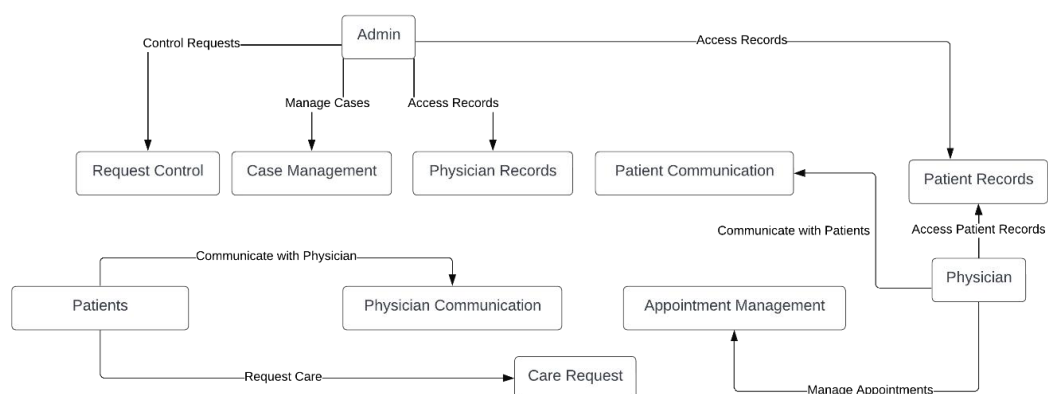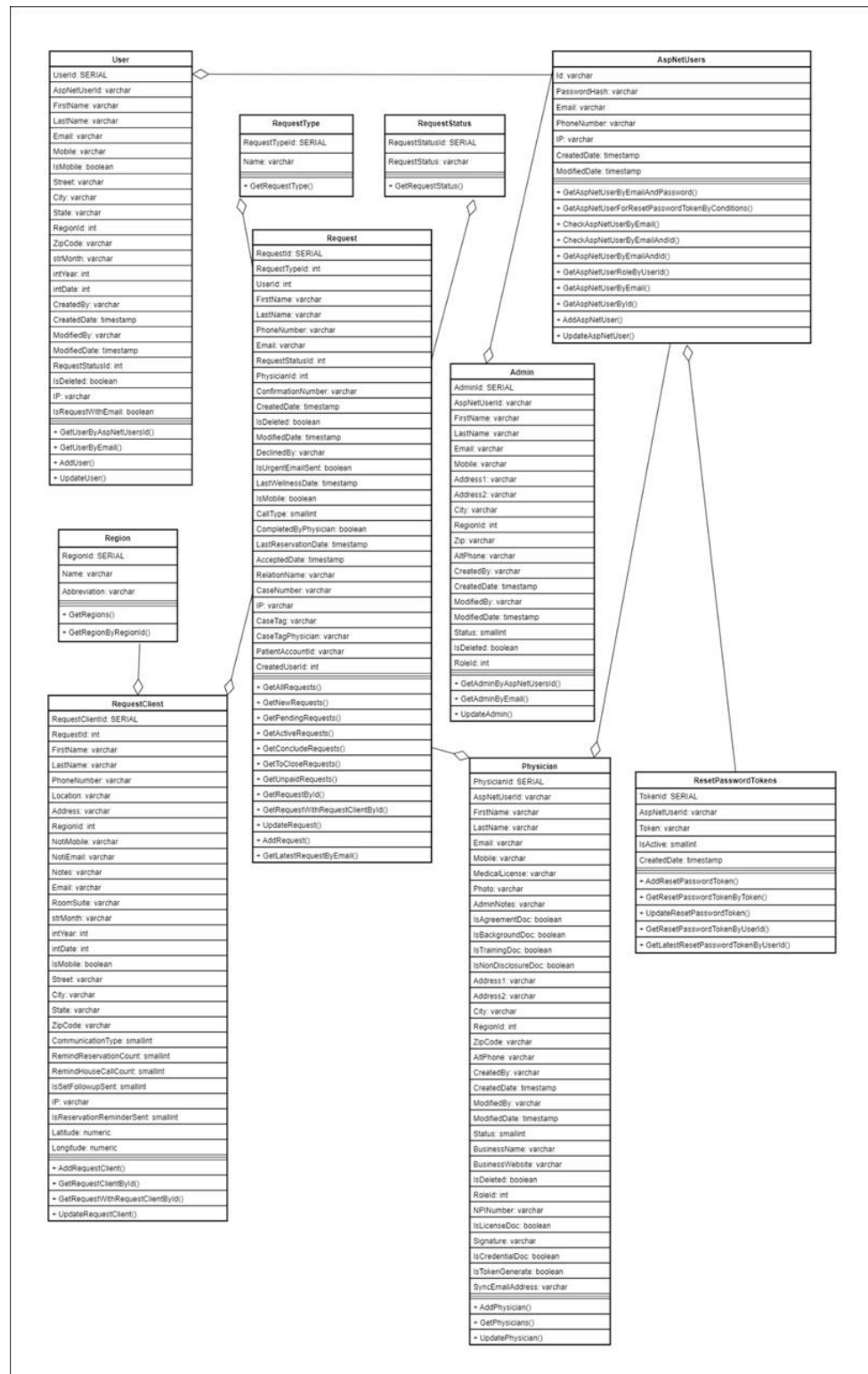
4.2.4 DFD Level 1 Diagram:

Figure 4.2.4: DFD level 1 Diagram

4.2.5 Class Diagram:

This class diagram shows the main classes in the Employee Self Service project, including

Employee, Attendance, Leave, Holiday, and Event.

4.2.6 ER Diagram:

The ER diagram shows the entities and relationships in the Employee Self Service project, which includes Employee, Attendance, Leave, Holiday, and Event.

The Employee entity represents the employees in the system and has attributes such as id, name, email, and password. An employee can have many attendance records, leave requests, and can be associated with many events. Therefore, the Employee entity has many-to-many relationships with Attendance, Leave entities.

The Attendance entity represents the attendance records of the employees and has attributes such as id, date, and. An attendance record belongs to only one employee, so there is a oneto-many relationship between the Employee and Attendance entities.
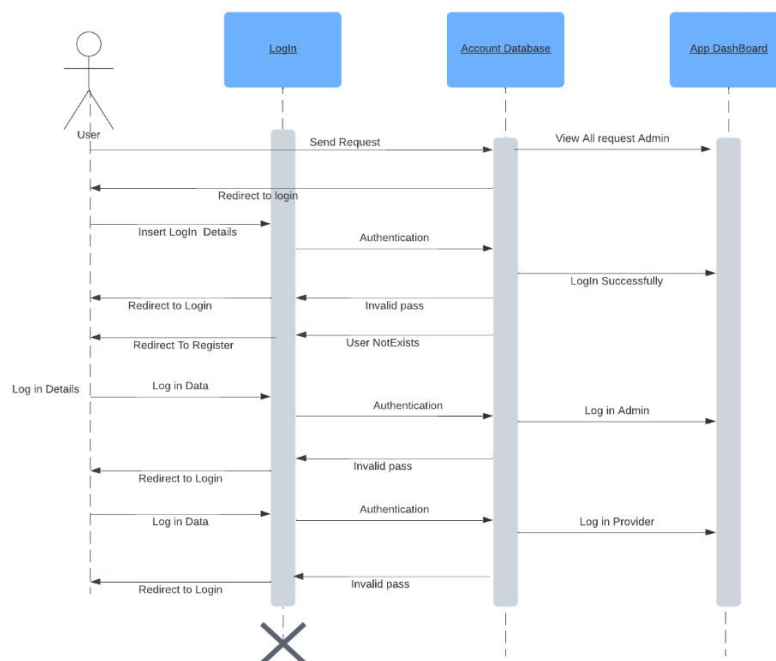
Figure 4.2.6: ER diagram

4.2.7 Sequence Diagram

Figure 4.2.7: Sequence diagram

4.3 Data Dictionary

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 : 4.3.1: Admin

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

Table : 4.3.2: AspNetRoles

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 : 4.3.3: AspNetUsers

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 : 4.3.4: EmailLog

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 : 4.3.5: HealthProfessionals

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 : 4.3.6: OrderDetails

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 : 4.3.7: Menu

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 : 4.3.8: Physician

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 : 4.3.9: Region

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,14CCUploadedByClient,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 : 4.3.10: **Request**

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	
Latitude	decimal	9	Yes	
Longitude	decimal	9	Yes	

Table : 4.3.11: RequestClient

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	

Table : 4.3.12: RequestNotes

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 : 4.3.13: RequestNotes

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 : 4.3.14: Role

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	

Table : 4.3.15: ShiftDetail

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			

Table : 4.3.16: User

5. IMPLEMENTATION

5.1 IMPLEMENTATION PLATFORM

Fig 5.1 Landing Page

Description: Landing page will shown when website url is searched
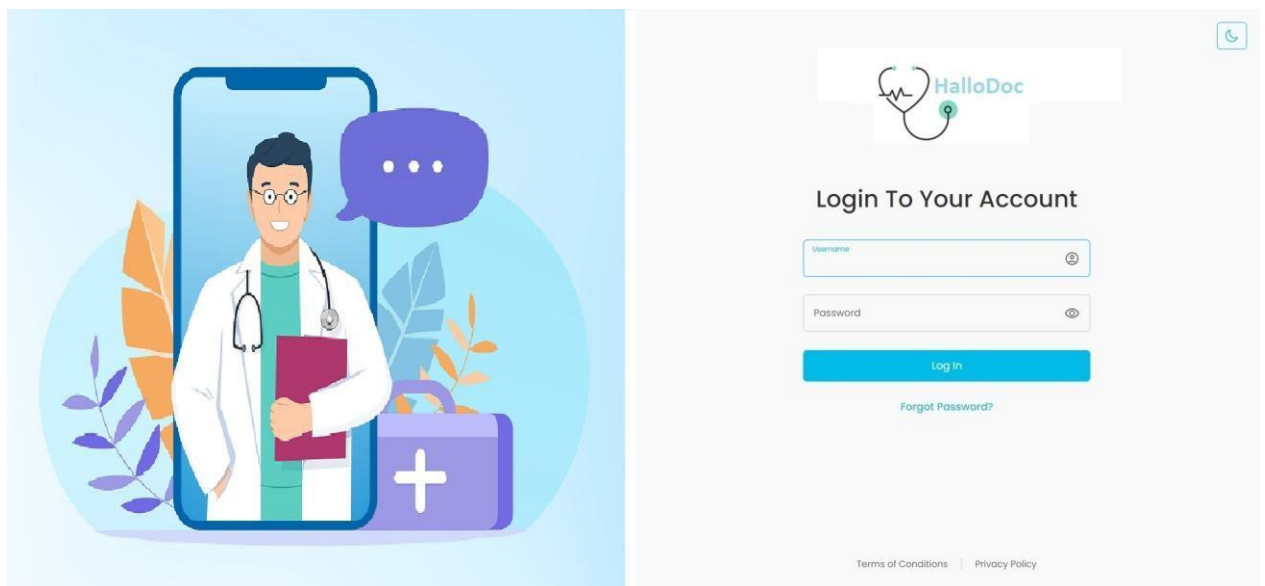
Fig 5.2 Login Page

Description: Login page with personal details such as email address and password after successfully submitted all the details and then clicking on log in button user can successfully enter in the system and there is also option for forgot password.
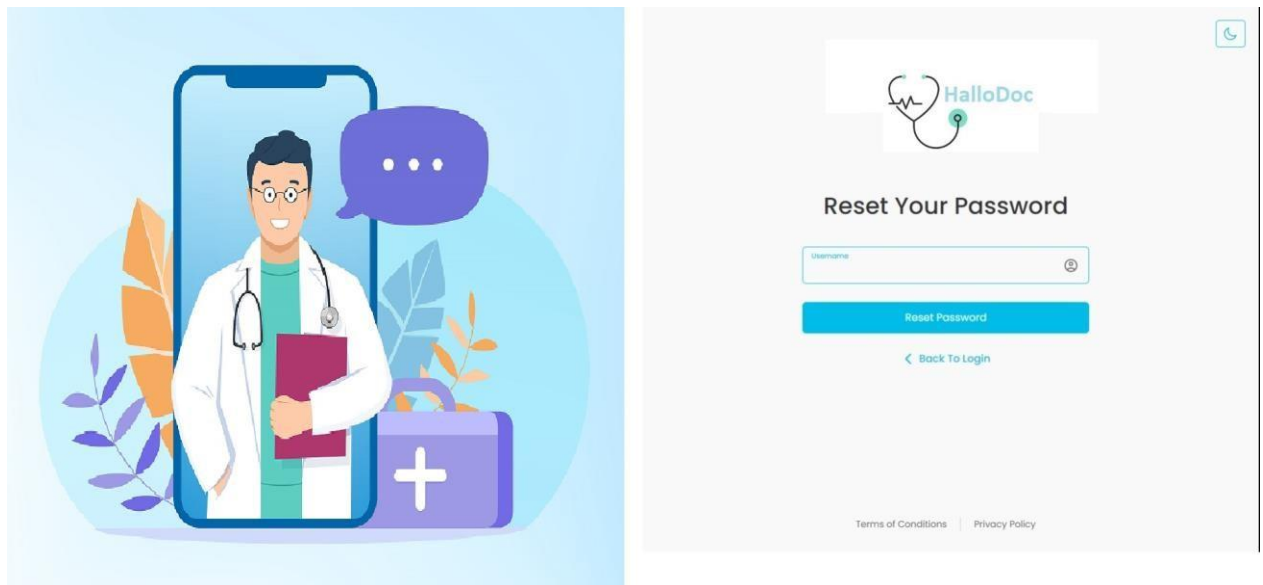
Fig 5.3 Reset Password Page

Description: The reset password page prompts users to enter their email address. Upon submission, a password reset link is sent to the email. Users click the link, set a new password, and gain access to their account.
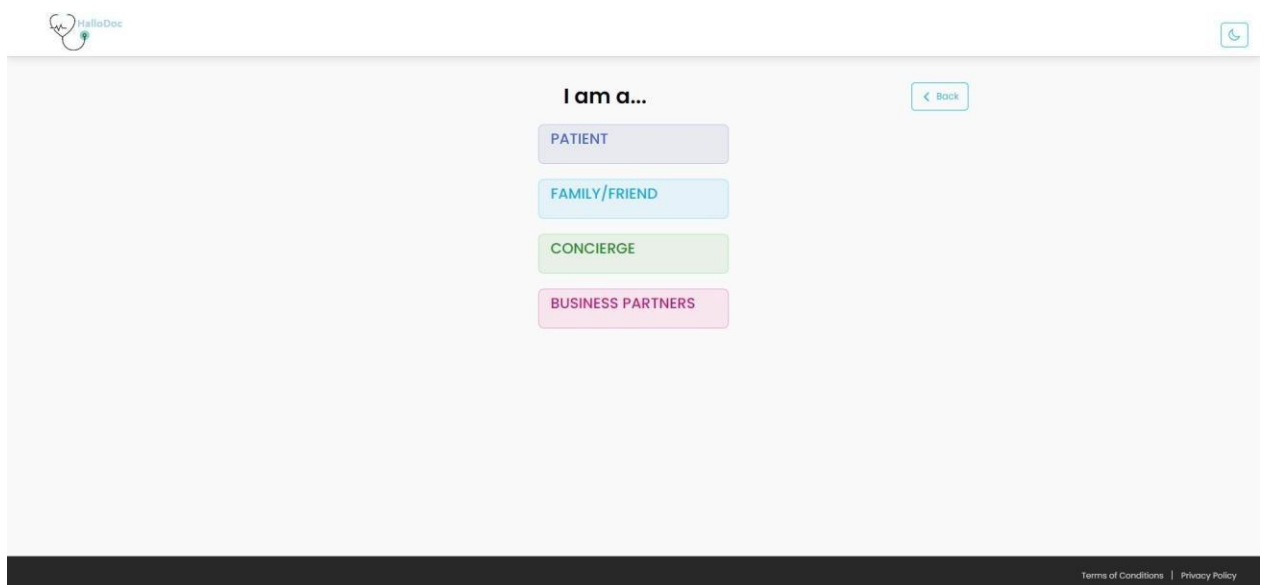
Fig 5.4 Select Role Page

Description: This is Screenshot of submit request screen it shows four different types of request Patient,Family/Friend,Concierge and Business Partners

Fig 5.5 Submit Request Page

Description: This is Screenshot of form for submit request patient. Patient can upload any medical documents here .

Fig 5.6 Family/Friend Request Page

Description: This screenshort shows family friend request form.

Fig 5.7 Concierge Request Page

Description: This screenshort shows concierge request form.

Fig 5.8 Business Request Page

Description: This is screenshort shows submit request as business partners.
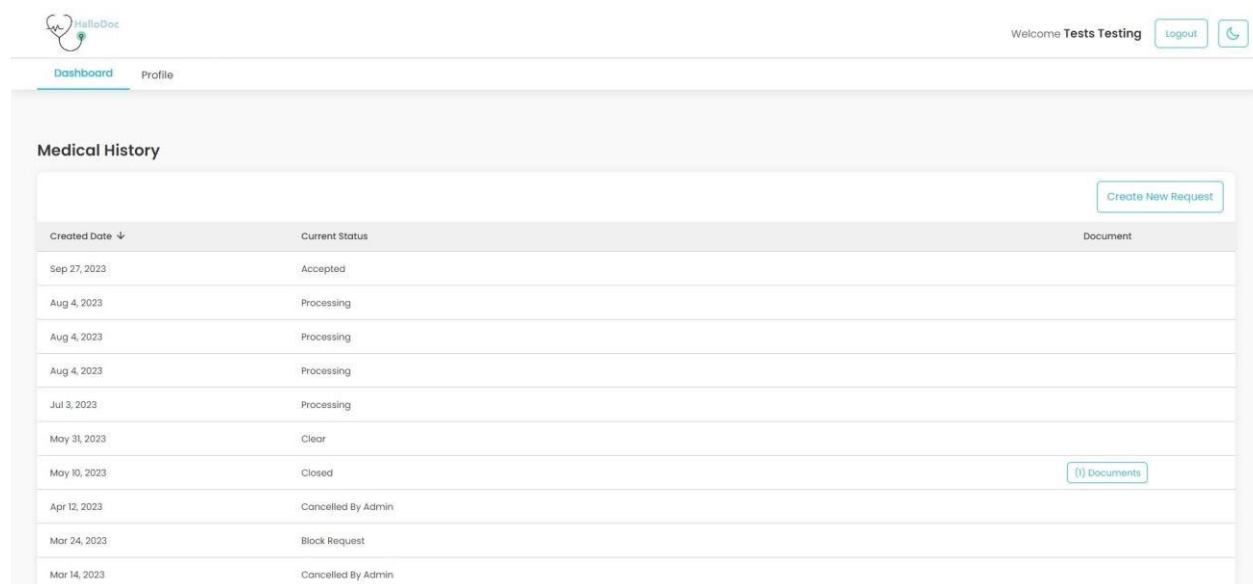
Fig 5.9 Patient Dashboard Page

Description: After successful log in this is dashboard page of patient site.
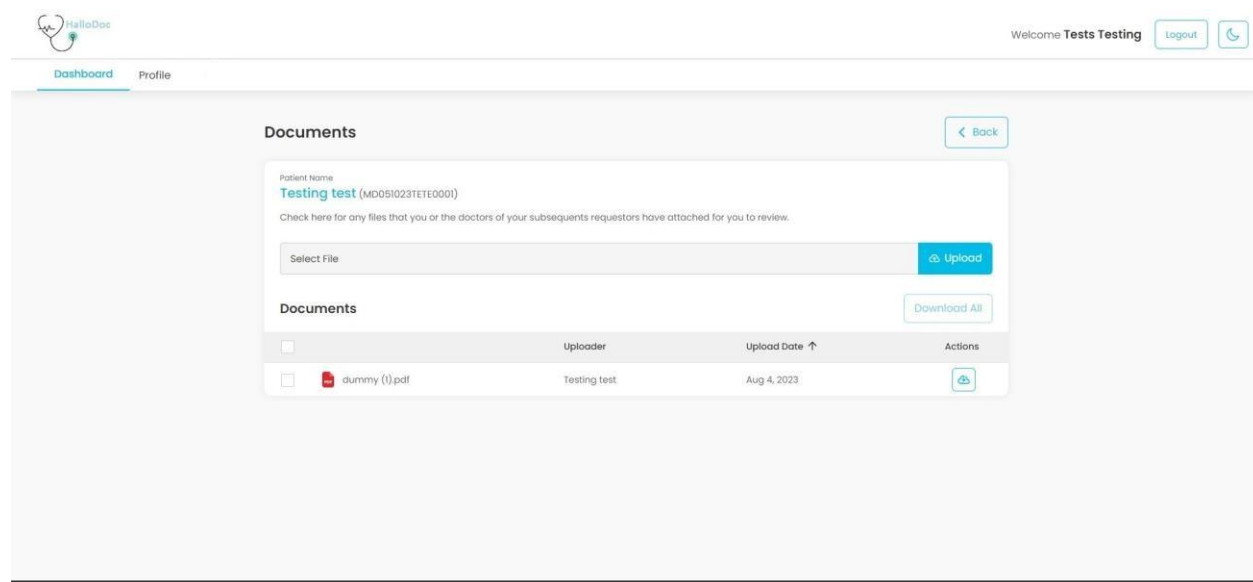
Fig 5.10 View Documents Page

Description: This is Screenshot View document page which shows all documents of particular request and shows uploader name with uploaded date. Also user can download the documents one by one or selected by checkboxs.user can upload documents also.

Fig 5.11 Patient Profile Page

Description: This is Patient Profile page user can edit the fields except email.

Fig 5.12 Admin Dashboard - New State Dashboard

Description: This is Screenshot of admin dashboard . admin dashboard will be shown if logged in email belongs to admin table.
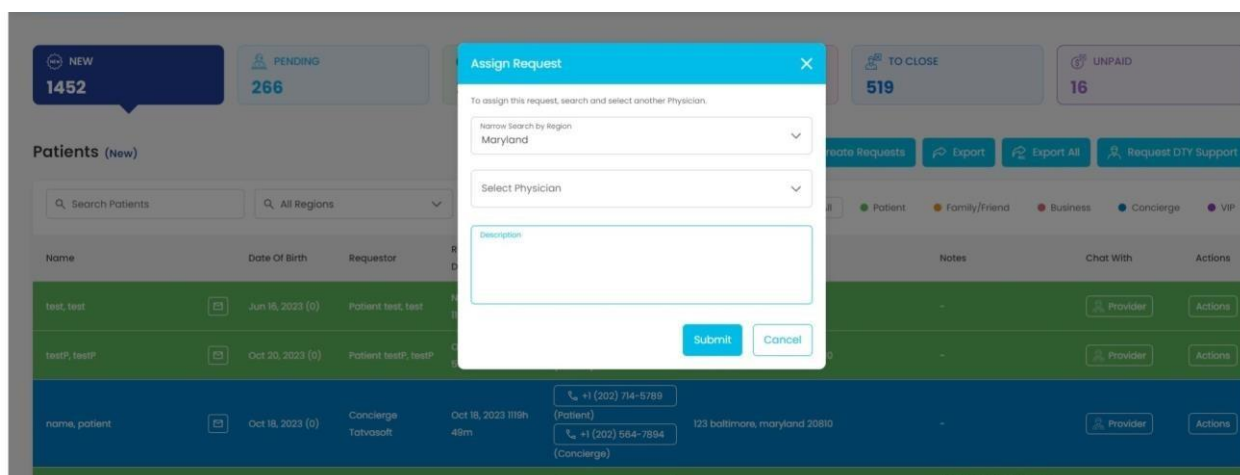
Fig 5.13 Assign Case

Description: This is Screenshot of assign case popup admin can assign case to the provider when the request is in new state.
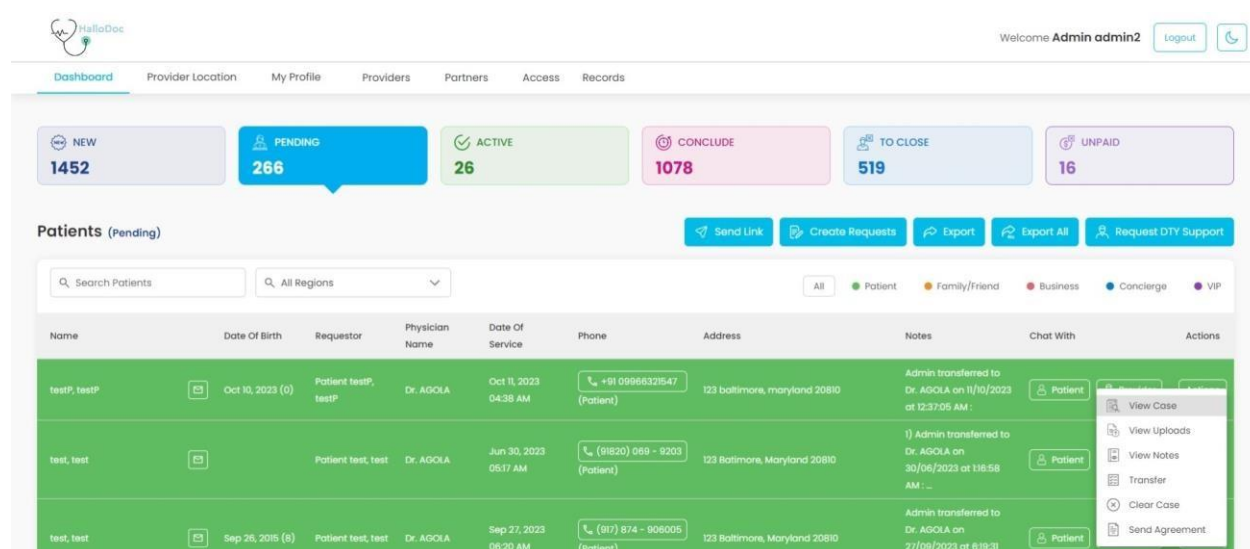
Fig 5.14 Pending State Dashboard

Description: This is Screenshot of admin dashboard in pending state from here admin can send link for agreement to the patient . it will sent on registered email.
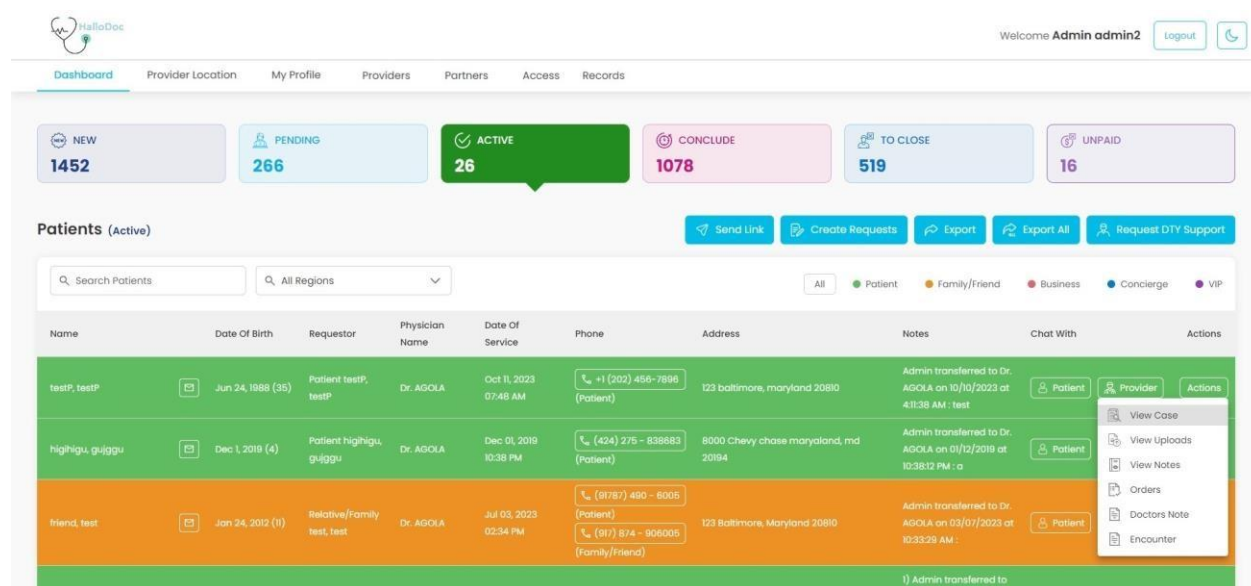
Fig 5.15 Active State Dashboard

Description: This is Screenshot of admin dashboard in active state and following six operations can be performed on request view case , view uploads , view notes,orders,doctors note,encounter.
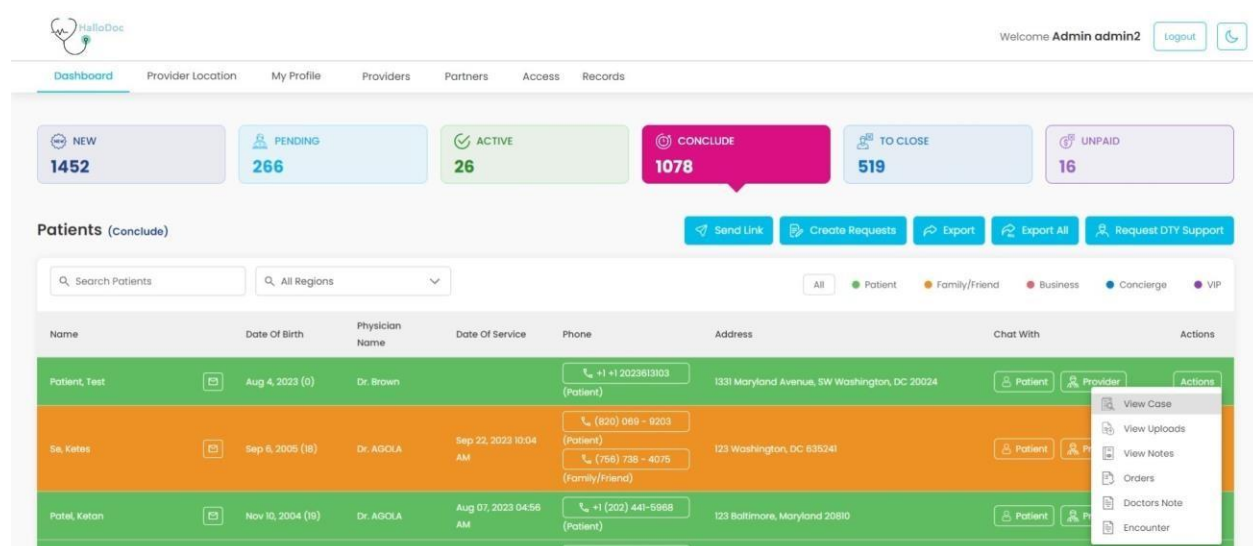
Fig 5.16 Conclude State Dashboard

Description: This is Screenshot of admin dashboard in conclude state and following six operations can be performed on request view case, view uploads, view notes, orders, doctors note, encounter.
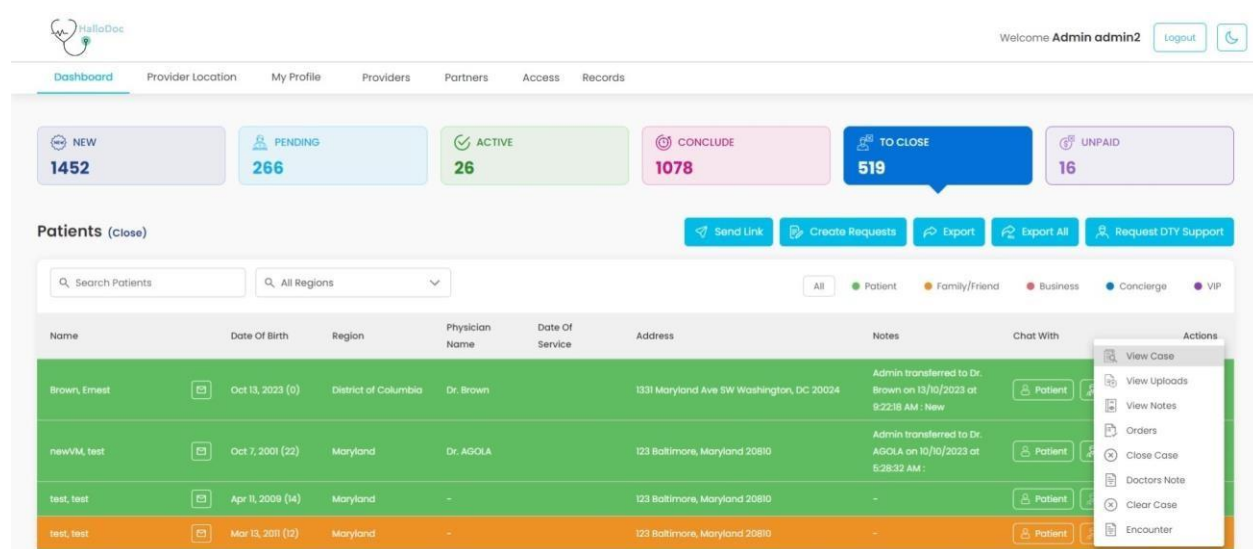

Fig 5.17 To Close State Dashboard

Description: This is Screenshot of admin dashboard in to close state in which requests are ready to close .
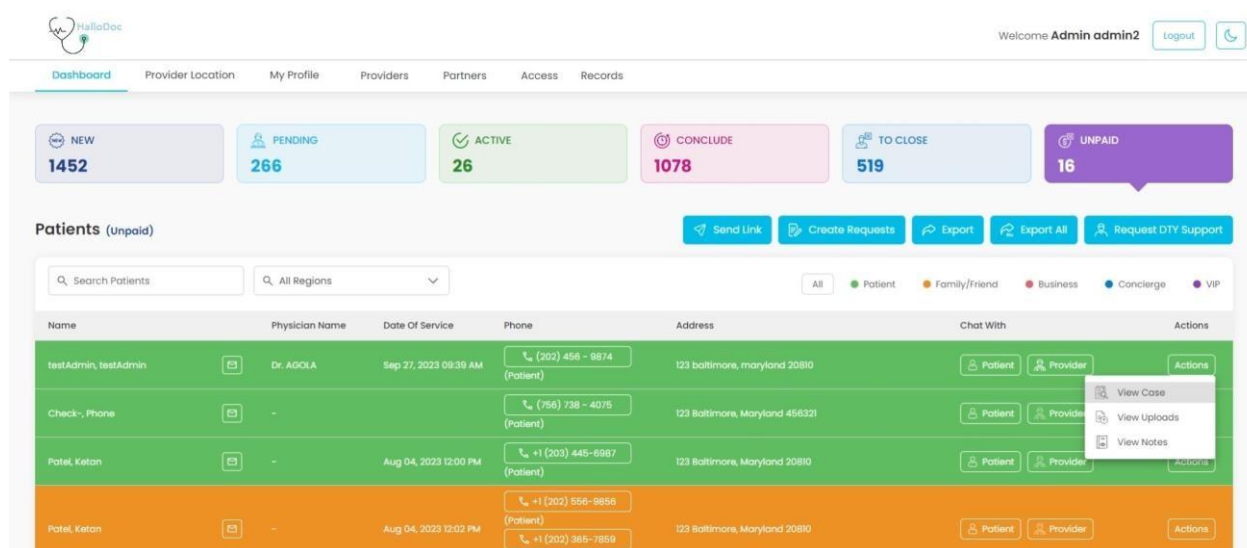
Fig 5.18 Unpaid State Dashboard

Description: This is Screenshot of admin dashboard in unpaid state.

Fig 5.19 View Case

Description: This screen will appear when admin clicks on view case button from any state.it show description of the request.
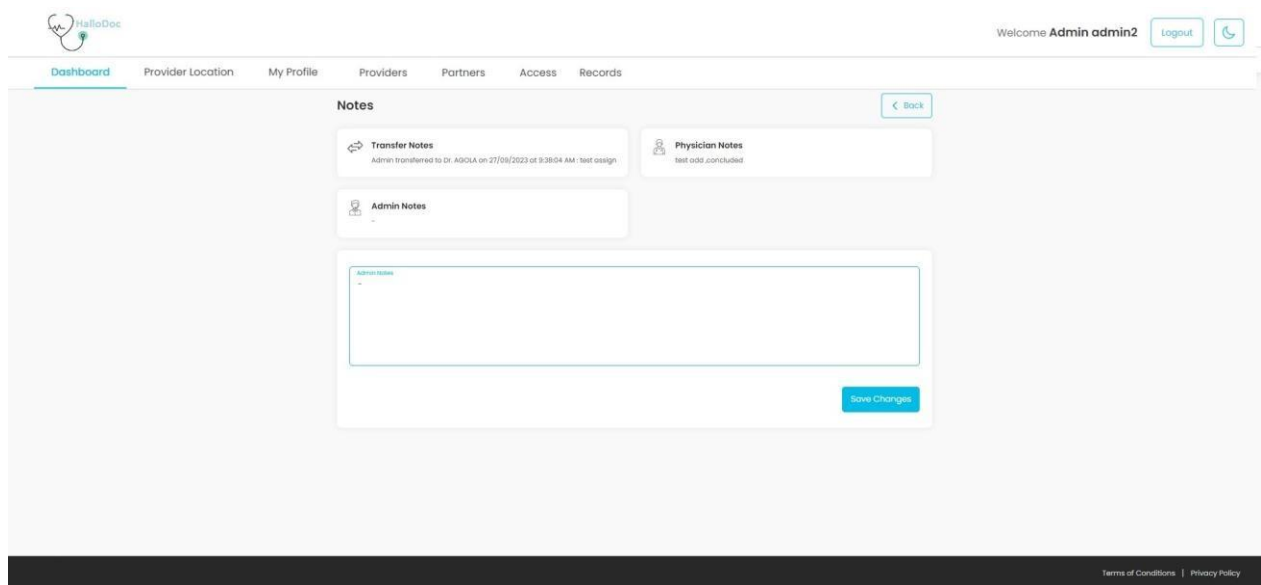
Fig 5.20 View Notes

Description: This screen will appear when admin clicks on view notes button .it
shows notes like admin notes ,physician notes , transfer notes , other notes are
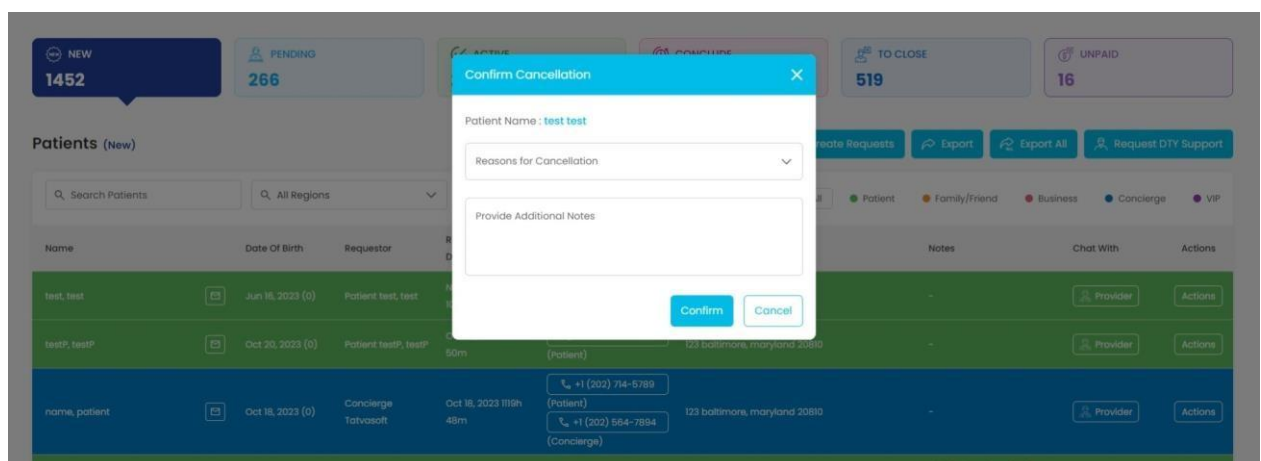patient cancellations notes it will appear if patient have not accept the agreement.

Fig 5.21 Cancel Case

Description: This screen will appear when admin clicks on cancel case button .it shows the drop down for reason for cancelling the case it also have text area for addition description. After cancellation request will move to To-Close state.
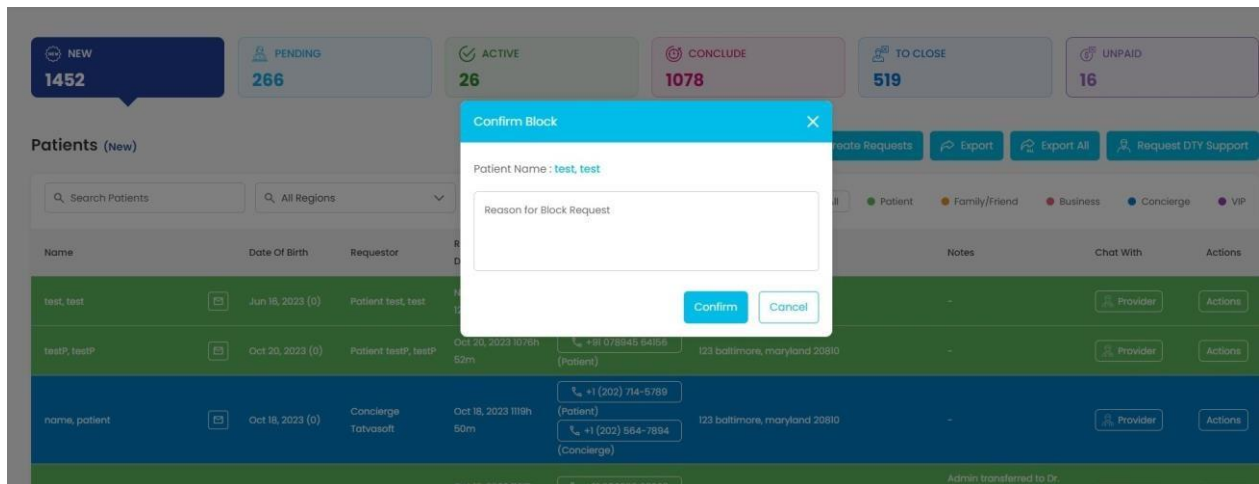

Fig 5.22 Block Case

Description: This screen will appear when admin clicks on block case button .it shows the text area for reason for blocking patient.
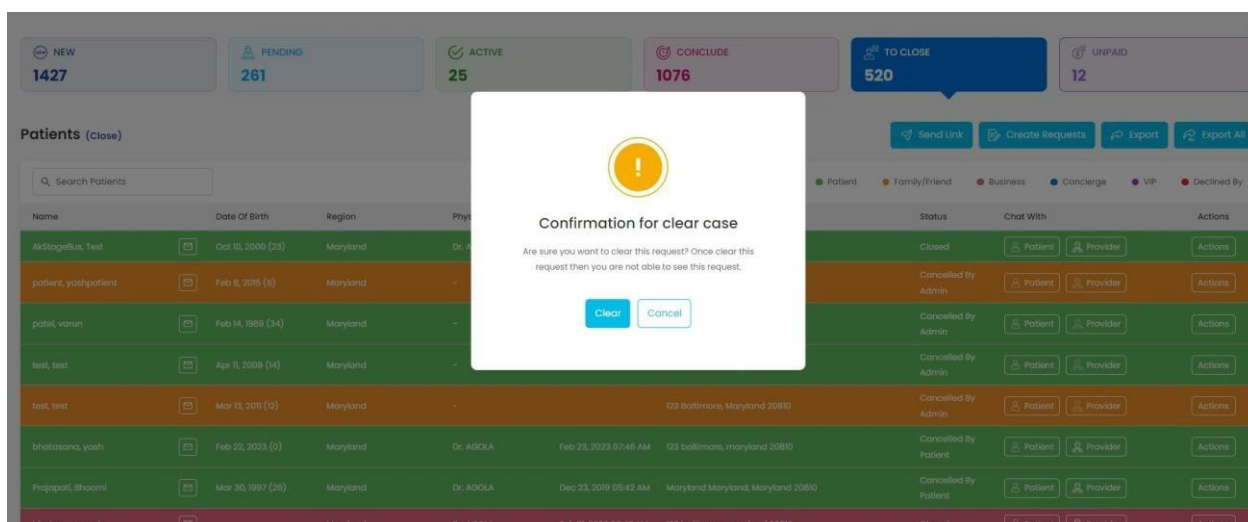

Fig 5.23 Clear Case

Description: This screen will appear when admin clicks on clear case button .it will
remove the request from the
dashboard.

Fig 5.24 Send Orders

Description: This page will open when admin/provider will click on "Orders" link
from Actions menu. From the active, conclude and close state, admin/providers can
send order to a registered business.

Fig 5.25 Profile - Admin

Description: This form will appear when admin clicks on my profile tab.

Fig 5.26 Provider Information - Admin

Description: This form will appear when admin clicks on my profile tab

5.2 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.

6. TESTING

6.1 Testing Plan

A test plan is the cornerstone of a successful testing implementation. The testing plan represents the overall approach to the test. In many ways, the test plan serves as a summary of the test activities that will be performed. It shows how the tests will be organized, and outlines all of the tester's needs that must be met in order to properly carry out the test.

6.2 Testing Strategy

The test strategy is a formal description of how a software product will be tested. A test strategy is developed for all levels of testing, as required. The test team analyzes the requirements, writes the test strategy and reviews the plan with the project team. The test plan may include test cases, conditions, and the test environment, a list of related tasks, pass/fail criteria and risk assessment.

6.3 Testing Methods

Unit Testing

Unit testing involves the testing of each unit or an individual component of the software application. It is the first level of functional testing. The aim behind unit testing is to validate unit components with its performance.

A unit is a single testable part of a software system and tested during the development phase of the application software.

6.4 Testing Cases

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

Table 6.1 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 6.2 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 6.3 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

Table 6.4 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	*Success*	PASS

7. CONCLUSION

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 – Entitity 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 userfriendly.

- 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.

Summary of Internship

Table 8.1 Summary of Internship/Project

Project Title	HalloDoc	
Aim	Our main Aim is to remove the barrier that is generated due to lack of consumer trust as they are not physically touching or can watch the product but by showing it on avatar they can at least look and decide that how it will suit on them as per body measurement. When you understand who your ideal customer is, what they look like, their habits, interests, challenges, aspirations, in fact everything about them, you'll be much more effective in marketing to them.	
Developed At	Tatvasoft	
Project Category	Web site	
Tools	IDE	Visual Studio
	Languages /Frameworks	PostgreSQL, Bootstrap, CSHTML,CSS, JS,C#,ASP DOTNET
	Database	PostgreSQL
Duration	3 Months (January 2024 to April 2024)	

Summary of Internship