

KAZI NAZRUL UNIVERSITY

A PROJECT REPORT

in partial fulfillment for the award of the degree

Of

BACHELOR OF COMPUTER APPLICATION

CLINIC APPOINTMENT BOOKING SYSTEM

Course Code: - BCAC602

Year of Examination: - 2024

Submitted by

Saba Parween	101211250040
Shahzin Ibrar	101211250042
Jhilik Thakur	101211250038
Sneha Kumari	101211250019

ASANSOL GIRLS' COLLEGE

Acknowledgement

I extend my deepest appreciation to **Mr. Subhasis Ghosh** for his exemplary guidance and unwavering support throughout the development of our **Clinic Appointment Booking System** project. Mr. Ghosh's expertise and dedication have been pivotal in shaping our understanding of the project's intricacies and ensuring its successful execution. His insightful feedback, constructive criticism, and encouragement have continually motivated us to strive for excellence. I am profoundly grateful for his patience, mentorship, and willingness to share his knowledge, which have been instrumental in overcoming challenges and achieving our goals. Additionally, I would like to thank all those who have contributed to this project directly or indirectly. Your assistance and collaboration have been invaluable in bringing this vision to fruition. Thank you, **Mr. Subhasis Ghosh**, for your invaluable guidance and mentorship throughout this journey.

Signature

Date:

CERTIFICATE FROM PROJECT GUIDE

This is to certify that the project entitled " **Clinic Appointment Booking System** " submitted in partial fulfilment of the degree of BCA, the Kazi Nazrul University, done by **Saba Parween** Reg No. 101211250040 is an authentic work carried out by her at Asansol Girls' College, Asansol under my guidance. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief and project report is developed according to the "**BCA PROJECT & PROJECT REPORT STANDARD** 2024, Kazi Nazrul University".

Signature of Student

Signature of Project Guide

CERTIFICATE FROM PROJECT GUIDE

This is to certify that the project entitled " **Clinic Appointment Booking System** " submitted in partial fulfilment of the degree of BCA, the Kazi Nazrul University, done by **Shahzin Ibrar** Reg No. 101211250042 is an authentic work carried out by her at Asansol Girls' College, Asansol under my guidance. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief and project report is developed according to the "**BCA PROJECT & PROJECT REPORT STANDARD** 2024, Kazi Nazrul University".

Signature of Student

Signature of Project Guide

CERTIFICATE FROM PROJECT GUIDE

This is to certify that the project entitled " **Clinic Appointment Booking System** " submitted in partial fulfilment of the degree of BCA, the Kazi Nazrul University, done by **Jhilik Thakur** Reg No. 101211250038 is an authentic work carried out by her at Asansol Girls' College, Asansol under my guidance. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief and project report is developed according to the "**BCA PROJECT & PROJECT REPORT STANDARD** 2024, Kazi Nazrul University".

Signature of Student

Signature of Project Guide

CERTIFICATE FROM PROJECT GUIDE

This is to certify that the project entitled " **Clinic Appointment Booking System**" submitted in partial fulfilment of the degree of BCA, the Kazi Nazrul University, done by **Sneha Kumari** Reg No. 101211250019 is an authentic work carried out by her at Asansol Girls' College, Asansol under my guidance. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief and project report is developed according to the "**BCA PROJECT & PROJECT REPORT STANDARD** 2024, Kazi Nazrul University".

Signature of Student

Signature of Project Guide

CERTIFICATE FROM HEAD OF INSTITUTION

The foregoing project report entitled “CLINIC APPOINTMENT BOOKING SYSTEM” is hereby approved as a creditable project and has been presented in a satisfactory manner to warrant its acceptance as prerequisite to the degree for which it was submitted.

It is understood that by this approval, the undersigned do not necessarily endorse any conclusion drawn or opinion expressed therein but approve the project for the purpose for which it is submitted.

Head of Institution

CERTIFICATE FROM INSTITUTION



Asansol Rainbow Computer Centre

Organised by : Asansol Chitra Rainbow Computer Centre
Durba & Purba Apartment, Dolly Lodge, Asansol-713304, WB

Registered Under

ISO 9001:2015 Certified 1706200910104 & Govt. of India No. WB03D0023165

Certificate of Project Completion

This is Certified That Mr / Miss SABA PARWEEN
Son / Daughter of Mr / Smt. MOHAMMAD ALAM ANSARI
Has successfully completed BCA Final Year Major Project

CLINIC APPOINTMENT BOOKING SYSTEM

Using

HTML, CSS, JAVASCRIPT, PHP, MYSQL

Under Guidance of

Sri PRAVAT K. SINHA & Sri NIRMALLYA MITRA

Regn. No. 24/ARCC/CFYMJP/015

Issue date 31/05/2024



P. K. Sinha
Centre In-Charge / Co-ordinator
Asansol Chitra Rainbow Computer Centre

CERTIFICATE FROM INSTITUTION



Asansol Rainbow Computer Centre

Organised by : Asansol Chitra Rainbow Computer Centre
Durba & Purba Apartment, Dolly Lodge, Asansol-713304, WB

Registered Under

ISO 9001:2015 Certified 1706200910104 & Govt. of India No. WB03D0023165

Certificate of Project Completion

This is Certified That Mr / Miss SHAHZIN IBRAR
Son / Daughter of Mr / Smt. MD IBRAR ANSARI
Has successfully completed BCA Final Year Major Project

CLINIC APPOINTMENT BOOKING SYSTEM

Using

HTML, CSS, JAVASCRIPT, PHP, MYSQL

Under Guidance of

Sri PRAVAT K. SINHA & Sri NIRMALLYA MITRA

Regn. No. 24/ARCC/CFYMJP/013

Issue date 31/05/2024



P. K. Sinha
Centre In-Charge / Co-ordinator

Asansol Chitra Rainbow Computer Centre

CERTIFICATE FROM INSTITUTION



Asansol Rainbow Computer Centre

Organised by : Asansol Chitra Rainbow Computer Centre
Durba & Purba Apartment, Dolly Lodge, Asansol-713304, WB

Registered Under

ISO 9001:2015 Certified 1706200910104 & Govt. of India No. WB03D0023165

Certificate of Project Completion

This is Certified That Mr / Miss JHILIK THAKUR
Son / Daughter of Mr / Smt. MANOJ THAKUR
Has successfully completed BCA Final Year Major Project

CLINIC APPOINTMENT BOOKING SYSTEM

Using

HTML, CSS, JAVASCRIPT, PHP, MYSQL

Under Guidance of

Sri PRAVAT K. SINHA & Sri NIRMALLYA MITRA

Regn. No. 24/ARCC/CFYMJP/014

Issue date 31/05/2024



P. K. Sinha

Centre In-Charge / Co-ordinator

Asansol Chitra Rainbow Computer Centre

CERTIFICATE FROM INSTITUTION



Asansol Rainbow Computer Centre

Organised by : Asansol Chitra Rainbow Computer Centre
Durba & Purba Apartment, Dolly Lodge, Asansol-713304, WB

Registered Under

ISO 9001:2015 Certified 1706200910104 & Govt. of India No. WB03D0023165

Certificate of Project Completion

This is Certified That Mr / Miss SNEHA KUMARI
Son / Daughter of Mr / Smt. UDAY SHANKAR PRASAD
Has successfully completed BCA Final Year Major Project

CLINIC APPOINTMENT BOOKING SYSTEM

Using

HTML, CSS, JAVASCRIPT, PHP, MYSQL

Under Guidance of

Sri PRAVAT K. SINHA & Sri NIRMALLYA MITRA

Regn. No. 24/ARCC/CFYMJP/016

Issue date 31/05/2024



P. K. Sinha
Centre In-Charge / Co-ordinator
Asansol Chitra Rainbow Computer Centre

SELF CERTIFICATE

This is to certify that the dissertation/project report entitled “**CLINIC APPOINTMENT BOOKING SYSTEM**” is done by me is an authentic work carried out for the partial fulfilment of the requirements for the award of the degree of BCA under the guidance of **Mr. Subhasis Ghosh**. I also certify that that I am aware of the “BCA PROJECT & PROJECT REPORT STANDARD 2024, KAZI NAZRUL UNIVERSITY” issued by Kazi Nazrul University and this project report is based on that standard. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Signature of the student

Name: Saba Parween

Reg No:101211250040

Asansol Girls' College

SELF CERTIFICATE

This is to certify that the dissertation/project report entitled “**CLINIC APPOINTMENT BOOKING SYSTEM**” is done by me is an authentic work carried out for the partial fulfilment of the requirements for the award of the degree of BCA under the guidance of **Mr. Subhasis Ghosh**. I also certify that that I am aware of the “**BCA PROJECT & PROJECT REPORT STANDARD 2024, KAZI NAZRUL UNIVERSITY**” issued by Kazi Nazrul University and this project report is based on that standard. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Signature of the student

Name: Shahzin Ibrar

Reg No:101211250042

Asansol Girls' College

SELF CERTIFICATE

This is to certify that the dissertation/project report entitled “**CLINIC APPOINTMENT BOOKING SYSTEM**” is done by me is an authentic work carried out for the partial fulfilment of the requirements for the award of the degree of BCA under the guidance of **Mr. Subhasis Ghosh**. I also certify that that I am aware of the “**BCA PROJECT & PROJECT REPORT STANDARD 2024, KAZI NAZRUL UNIVERSITY**” issued by Kazi Nazrul University and this project report is based on that standard. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Signature of the student

Name: Jhilik Thakur

Reg No:101211250038

Asansol Girls' College

SELF CERTIFICATE

This is to certify that the dissertation/project report entitled “**CLINIC APPOINTMENT BOOKING SYSTEM**” is done by me is an authentic work carried out for the partial fulfilment of the requirements for the award of the degree of BCA under the guidance of **Mr. Subhasis Ghosh**. I also certify that that I am aware of the “**BCA PROJECT & PROJECT REPORT STANDARD 2024, KAZI NAZRUL UNIVERSITY**” issued by Kazi Nazrul University and this project report is based on that standard. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Signature of the student

Name: Sneha Kumari

Reg No:101211250019

Asansol Girls' College

The Synopsis

An appointment booking system revolutionizes scheduling processes across various industries, providing an efficient and convenient solution for both service providers and customers. This digital platform encompasses three primary panels: Admin Panel, Doctor Panel, and Patient Panel, each offering distinct functionalities to streamline scheduling, manage appointments.

Admin Panel:

The **Admin Panel** serves as the backbone of the system, offering comprehensive control over its functionalities. Administrators can manage user accounts, configure system settings, and oversee the entire appointment process. Key features of the Admin Panel include:

User Management: Admins can create, modify, or deactivate user accounts for doctors, staff, and patients. They can also assign roles and permissions to control access levels within the system.

Service Configuration: Admins have the authority to define available services, set appointment durations, and establish operating hours for different days of the week.

Calendar Management: The Admin Panel provides a centralized calendar view, allowing administrators to monitor appointment schedules across all departments and locations. They can add, edit, or cancel appointments as needed.

Doctor Panel:

The **Doctor Panel** caters to healthcare professionals, providing tools to manage their schedules, communicate with patients, and access relevant patient information. Key features of the Doctor Panel include:

Schedule Management: Doctors can view their appointment schedules, block off time slots for personal activities, and accept or reject appointment requests. They can also set preferences for appointment reminders and notifications.

Patient Panel:

The **Patient Panel** empowers individuals to book appointments, manage their healthcare schedules, and access personalized health information. Key features of the Patient Panel include:

Appointment Booking: Patients can search for available appointment slots, select preferred dates and times, and book appointments with their chosen healthcare providers. The system provides real-time availability and confirmation of bookings.

Index

Sl. No.	Contents	Pg. No
1.	Objective & Scope of the Project	1
2.	Theoretical Background	2
3.	Definition of the Problem	3
4.	System Requirements Specifications	4
5.	Pert Chart	5
6.	Scope for System Maintenance & Evolution	6-7
7.	Hardware and Software to Run the Project	8
8.	Justification	9-10
9.	Future Scope	11-12
10.	Data Flow Diagram	13
11.	Entity Relationship Diagram	14
12.	Screenshot	15-22
13.	Table Design of Database	23
14.	Software Engineering Process Involved	24
15.	Methodology Used for Testing	25-26
16.	Code Of Project	27-48
17.	Conclusion	49

Objective & Scope of the Project

Benefits:

Streamlined Operations: The Clinic Appointment Booking System automates administrative tasks such as appointment scheduling, patient record management, billing, and inventory management. This automation leads to increased efficiency and reduced workload for clinic staff, allowing them to focus more on patient care.

Improved Patient Care: With quick access to patient records, medical history, and treatment plans, healthcare providers can deliver personalized care and make informed clinical decisions. This system enhances patient outcomes by ensuring accurate and comprehensive patient information is readily available.

Enhanced Accessibility: As a web-based application, the Clinic Appointment Booking System is accessible from anywhere with an internet connection. This accessibility enables clinic staff to manage operations remotely and provides patients with convenient access to their health information and appointment scheduling.

Multi-user Capability: The system supports simultaneous access by multiple clinic staff members, facilitating collaboration and communication within the clinic team. This multi-user capability ensures efficient workflow management and coordination of tasks among staff members.

Category of the Project:

Web-based Application: The Clinic Appointment Booking System is developed as a web-based application, accessible through a web browser. This approach eliminates the need for installation and ensures cross-platform compatibility, allowing users to access the system from various devices.

Multi-user System: Designed to serve the needs of multiple users simultaneously, the system facilitates efficient collaboration and coordination among clinic staff members. This multi-user functionality ensures that all staff members can access and update appointment schedules and patient records as needed.

Technological Framework: The Clinic Appointment Booking System utilizes HTML, CSS, JavaScript, PHP, and SQL technologies for front-end, back-end, and database development. This robust technological framework ensures a scalable, reliable, and secure solution for managing clinic appointments and operations.

Theoretical Background

Software Overview:

HTML, CSS, JavaScript: These technologies serve as the backbone for front-end development in the Clinic Appointment Booking System. HTML provides the structural foundation for web pages, CSS styles the layout and appearance, while JavaScript adds dynamic functionality and interactivity, such as form validation and asynchronous data loading.

PHP: PHP plays a crucial role in server-side scripting, enabling dynamic content generation and server-side processing in the Clinic Appointment Booking System. It handles tasks such as user authentication, appointment scheduling logic, and database interactions, ensuring seamless functionality and data management on the server side.

SQL (Structured Query Language): SQL is instrumental in managing the database layer of the Clinic Appointment Booking System. It facilitates data storage, retrieval, manipulation, and querying operations within the system's relational database. SQL ensures efficient data management and integrity, enabling the system to handle patient records, appointment details, and other critical information.

System Architecture:

Client-Server Architecture: The Clinic Appointment Booking System adopts a client-server architecture, where clients (web browsers) communicate with a central server to access and manipulate data stored in the system's database. This architecture enables distributed computing and seamless interaction between users and the system.

Three-Tier Architecture: The system is structured using a three-tier architecture, comprising a presentation layer (client-side), application layer (server-side), and data layer (database). This modular design enhances scalability, maintainability, and flexibility by separating user interface, business logic, and data storage concerns into distinct layers.

Model-View-Controller (MVC) Design Pattern: The Clinic Appointment Booking System adheres to the MVC design pattern to organize code and promote separation of concerns. The model represents the data and business logic, the view handles the presentation layer, and the controller manages user interactions and orchestrates communication between the model and view. This design pattern fosters code modularity, reusability, and testability, facilitating system maintenance and evolution.

Definition of the Problem

Inefficient Clinic Management Processes:

Traditional clinic management systems often rely on manual and paper-based processes for appointment scheduling, patient record management, billing, and inventory tracking. These processes are prone to errors, inefficiencies, and delays, leading to decreased productivity and increased administrative burden on clinic staff.

Lack of Centralized Information:

Many clinics suffer from fragmented data storage, where patient information, medical records, and administrative data are scattered across disparate systems or paper files. This lack of centralization makes it difficult to access, update, and share information efficiently, resulting in duplication of efforts, inconsistencies in data, and challenges in tracking patient history and treatment plans.

Communication and Coordination Challenges:

Limited communication channels and coordination mechanisms between clinic staff members can impede collaboration and hinder effective patient care. Without a centralized system for communication and task management, important information may be overlooked, leading to gaps in care and patient dissatisfaction.

Accessibility and Patient Experience:

Patients often encounter challenges in scheduling appointments, accessing their medical records, and communicating with clinic staff. Traditional appointment booking methods may be time-consuming and inconvenient, while the absence of online portals or mobile applications limits patients' ability to actively engage in their healthcare.

Security and Compliance Concerns:

Paper-based records and decentralized systems pose security risks, such as unauthorized access, data breaches, and loss of sensitive patient information. Moreover, compliance with healthcare regulations, such as HIPAA (Health Insurance Portability and Accountability Act), may be challenging without robust data security measures and audit trails in place.

System Requirements Specifications

Hardware Components:

Computer:

Role: Serves as the development workstation for coding and testing the website.

Specifications: A standard laptop or desktop computer with basic hardware specifications, including a dual-core CPU, 4GB RAM, and sufficient storage capacity for development tools and project files.

Software Requirements:

Operating System:

Specifications: Windows, macOS, or Linux operating system, providing a platform for running development tools and executing web applications.

Development Environment:

Specifications:

HTML, CSS, and JavaScript code editors for front-end development (e.g., Visual Studio Code, Sublime Text).

PHP (version 7.x) installed on the local machine for server-side scripting.

MySQL Workbench or PhpMyAdmin for MySQL database management.

Database Management System:

Specifications: MySQL, a relational database management system (RDBMS) used for storing website data. Ensure compatibility with PHP for database connectivity.

Web Browser:

Specifications: A modern web browser (e.g., Google Chrome, or Microsoft Edge) for testing website functionality and compatibility during development.

Integration and Interconnections:

Development Server:

Specifications: A local web server environment supporting PHP, such as XAMPP, WAMP, or MAMP, for hosting and testing the website locally.

Database Connectivity:

Specifications: Direct connectivity between the PHP application and MySQL database for performing CRUD (Create, Read, Update, Delete) operations on local data during development and testing.

Pert Chart

Research	27/02/24								
Planning	05/03/24								
Design			12/03/24						
Coding				20/03/24					
Testing						10/04/24			
Launch								22/04/24	

Pert Chart of Clinic Appointment Booking System

Scope for System Maintenance & Evolution

Enhanced Search Functionality:

Current Status: Basic search functionality implemented for appointment scheduling and patient information.

Future Enhancement: Improve search capabilities to allow users to search based on various criteria such as patient demographics, appointment types, available time slots, and medical history.

Benefits: Enable clinic staff to quickly find relevant information, reduce search time, minimize errors, and enhance overall efficiency in managing appointments.

User Interface Design:

Current Status: Functional user interface designed for appointment booking, patient registration, and viewing appointments.

Future Enhancement: Redesign user interfaces to enhance usability, responsiveness, and visual appeal. Implement intuitive navigation, clear labeling, and consistent design elements.

Benefits: Improve user experience, increase user satisfaction, reduce training time for new users, and streamline the appointment booking process.

Continuous Improvement:

Feedback Collection: Establish mechanisms for collecting feedback from clinic staff and patients regarding their experience with the appointment booking system. Use surveys, interviews, and user analytics to gather insights.

Iterative Development: Plan regular updates and enhancements based on feedback received. Prioritize features and improvements that address the most pressing needs of users and align with the clinic's goals.

Benefits: Ensure that the appointment booking system remains user-centric, adaptable to changing requirements, and continuously improves its functionality and usability over time.

Security and Compliance:

Current Status: Basic security measures implemented to protect patient data and comply with relevant regulations (e.g., GDPR, HIPAA).

Future Enhancement: Strengthen security protocols by implementing encryption, access controls, and regular security assessments. Ensure compliance with updated regulations and standards.

Benefits: Enhance data security, protect patient privacy, mitigate the risk of data breaches, and maintain regulatory compliance, thereby building trust and confidence among patients and clinic staff.

Hardware and Software to Run the Project

Hardware Requirements:

Processor: Intel Core i3 processor or above

Hard Drive: 500GB or above

Memory (RAM): Minimum of 4GB RAM

Input Devices: Mouse, Keyboard

Software Requirements:

Operating System: Windows 8 or above

Database Management System: MySQL (version 5.7 or above)

PHP: PHP (version 7.0 or above)

Development Framework: No specific framework required, but you may choose to use one like Laravel or Symfony for PHP development.

Justification

Hardware Components:

Computer:

Description: A standard laptop or desktop computer serves as the development workstation for coding and testing Clinic Appointment Booking System.

Specifications: Windows 11 OS, 4GB RAM, Intel i5 11th gen processor, and 512GB SSD ensure adequate computing power and storage capacity for running development tools and executing the Clinic Appointment Booking System efficiently.

Local Development Server:

Description: Setting up a local development server on the workstation enables hosting and testing of the Clinic Appointment Booking System in a controlled environment.

Justification: This approach allows for rapid development iterations and facilitates testing of system features without reliance on external hosting services, improving efficiency and reducing dependencies.

Software Used for Development:

Operating System:

Description: Windows 11 is chosen as the operating system for its compatibility with development tools and broad support for software applications.

Justification: Windows 11 provides a familiar and user-friendly environment for developers, ensuring seamless execution of PHP scripts and SQL queries.

Programming Languages and Frameworks:

HTML, CSS, JavaScript, PHP: These languages and frameworks are selected for developing the frontend and backend logic of the Clinic Appointment Booking System.

Justification: HTML, CSS, and JavaScript are fundamental for building interactive and responsive user interfaces, while PHP is used for server-side scripting and SQL for database interactions.

Integrated Development Environment (IDE):

Description: Visual Studio Code (VS Code) is chosen as the integrated development environment (IDE) for coding and managing project files.

Justification: VS Code offers a rich set of features for HTML, CSS, JavaScript, PHP, and SQL development, enhancing productivity and facilitating collaborative development among team members.

Database Management System (DBMS):

Description: MySQL is selected as the relational database management system (RDBMS) for storing and managing clinic data.

Justification: MySQL is a widely used and reliable database system that offers robust features for managing relational data efficiently.

Web Browser:

Description: Google Chrome and Microsoft Edge are selected as the web browsers for testing website functionality and compatibility during development.

Justification: These browsers provide comprehensive developer tools, support modern web standards, and offer cross-platform compatibility, ensuring accurate testing and debugging of system features.

Development Tools and Environments:

Package Manager (Composer for PHP): Composer is used for installing and managing PHP packages and dependencies.

Justification: Composer simplifies dependency management, allowing developers to easily incorporate third-party libraries and frameworks into the Clinic Appointment Booking System, improving code modularity and scalability.

Future Scope

Integration of Payment Gateway:

Implementing a secure payment gateway to facilitate online transactions for clinic services, allowing patients to make payments conveniently through credit/debit cards, digital wallets, or other online payment methods.

Enabling seamless integration with popular payment gateways such as PayPal, Stripe, or Razorpay to ensure secure and efficient payment processing.

Generation of Payment Receipts:

Enhancing the system to automatically generate and email payment receipts to patients upon successful completion of transactions.

Providing patients with detailed payment receipts containing transaction details, invoice numbers, date/time stamps, and payment confirmation for their records.

Transition to a Web Application:

Transforming the clinic appointment booking system into a fully functional web application accessible from any web browser, offering greater flexibility and convenience for users.

Developing responsive and user-friendly web interfaces optimized for different devices, including desktops, laptops, tablets, and smartphones.

Implementation of Appointment Reminders:

Introducing appointment reminder functionality to notify patients of upcoming appointments via email, SMS, or push notifications.

Allowing patients to confirm, reschedule, or cancel appointments directly from the reminder notifications, improving appointment scheduling efficiency and reducing no-show rates.

Enhanced Reporting and Analytics:

Expanding reporting capabilities to provide comprehensive insights into appointment scheduling patterns, patient demographics, appointment cancellation rates, and revenue analysis.

Incorporating advanced analytics features such as data visualization, trend analysis, and predictive modeling to help clinic administrators make informed decisions and optimize resource allocation.

Integration with Electronic Health Records (EHR) Systems:

Integrating the clinic appointment booking system with existing Electronic Health Records (EHR) systems to streamline patient data management and ensure seamless interoperability between healthcare providers.

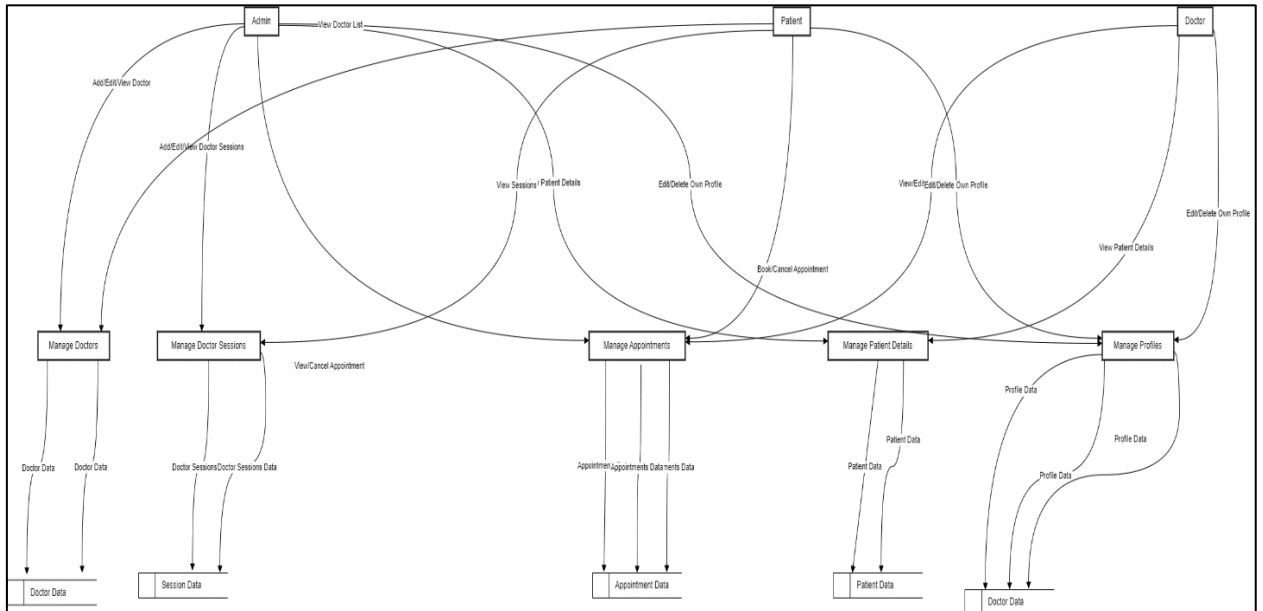
Enabling secure data exchange and synchronization between the appointment booking system and EHR platforms to maintain accurate and up-to-date patient records.

Implementation of Telemedicine Features:

Introducing telemedicine capabilities to enable remote consultations and virtual appointments between healthcare providers and patients.

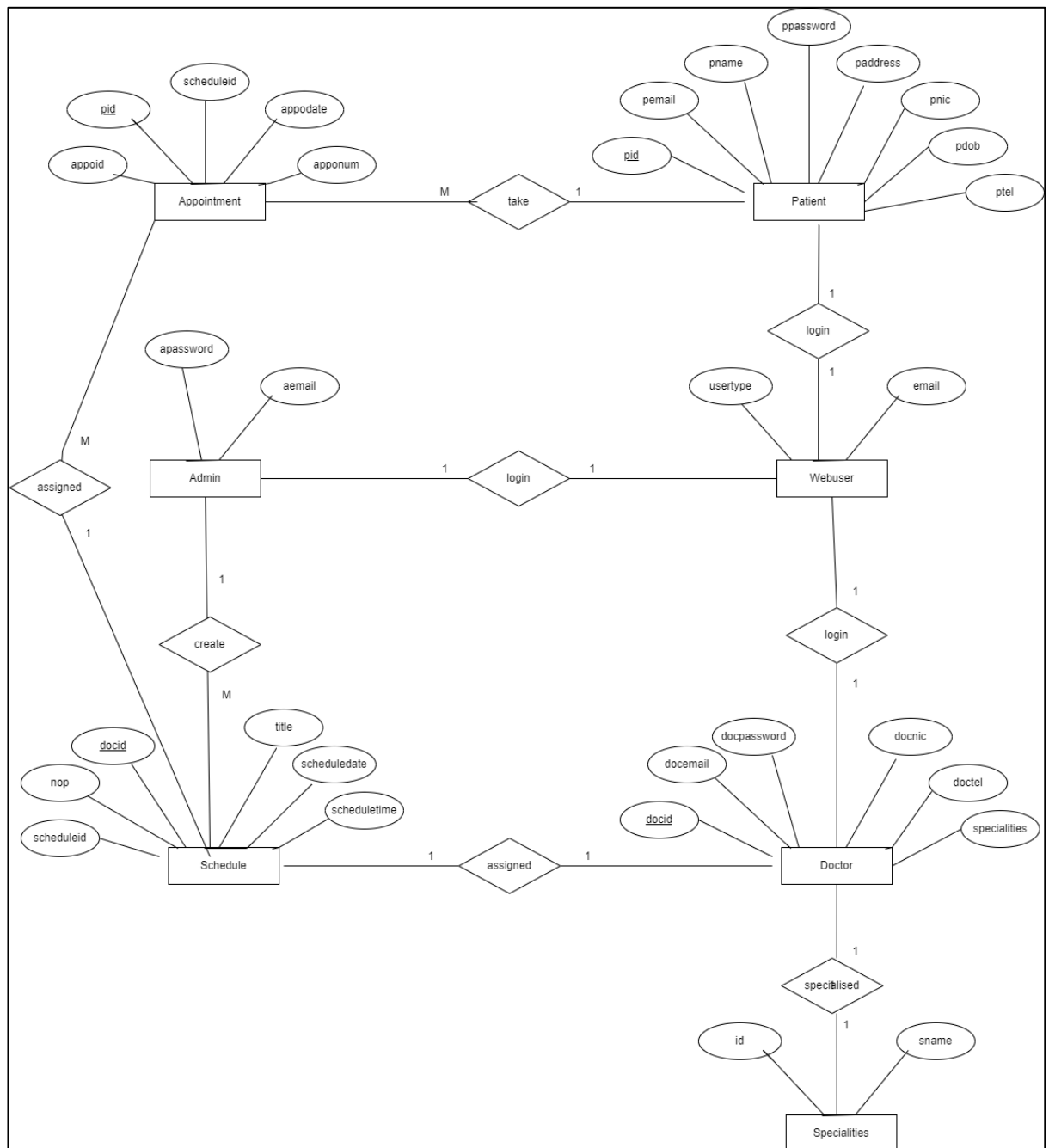
Integrating video conferencing, chat, and file-sharing functionalities into the system to facilitate real-time communication and collaboration during telemedicine sessions.

Data Flow Diagram



Data Flow Diagram of Clinic Appointment Booking System


Entity Relationship Diagram



E-R Diagram of Clinic Appointment Booking System

Screenshots

Admin Panel



Saba Parween
admin@edoc.com

Log out

Dashboard

Doctors


Schedule

Appointment

Patients


Search

Today's Date
2024-05-25




Status


7
Doctors




2
Patients



0
NewBooking



0
Today Sessions



Upcoming Appointments until Next Saturday

Here's Quick access to Upcoming Appointments until 7 days
More details available in @Appointment section.

Appointment number	Patient name	Doctor	Session
1	Md Asif Raza	Dr. Aroop Mukherjee	session 2


Show all Appointments

Upcoming Sessions until Next Saturday

Here's Quick access to Upcoming Sessions that Scheduled until 7 days
Add, Remove and Many features available in @Schedule section.

Session Title	Doctor	Scheduled Date & Time
session 3	Dr. Ajaya Nand jha	2024-05-31 13:00
session 1	Dr. Pritam Mitra	2024-05-30 10:00
session 2	Dr. Aroop Mukherjee	2024-05-29 12:00

Show all Sessions



Saba Parween
admin@edoc.com

Log out

Dashboard

Doctors

Schedule


Appointment

Patients

← Back

Search






















Today's Date
2024-05-25




Add New Doctor

+ Add New

All Doctors (7)

Doctor Name	Email	Specialties	Events		
Dr. Shreya Sushil Poddar	shreya32@gmail.com	Dermatology			
Dr. Farhan Ansari	farhan123@doc.com	Endocrinology			
Dr. Ajaya Nand jha	ajaya42@gmail.com	Orthopaedics			
Dr. Aroop Mukherjee	ajayamukherjee@gmail	Neurosurgery			
Dr. Pritam Mitra	pritammitra@gmail.co	Dental, oral and max			
Dr. Amrita Sarkar	amritasarkar@gmail.c	Clinical biology			
Dr Ashim Kumar Ghosh	ashim6534@doc.com	Immunology			

Admin Panel



Saba Parween
admin@edoc.com

Log out

Dashboard

Doctors

Schedule

Appointment

Patients

← Back

Schedule Manager

Today's Date
2024-05-25

Schedule a Session

+ Add a Session


All Sessions (4)

Date:

Doctor:

Filter

Session Title	Doctor	Sheduled Date & Time	Max num that can be booked	Events	
session 3	Dr. Ajaya Nand jha	2024-05-31 13:00	8	View	Remove
session 1	Dr. Pritam Mitra	2024-05-30 10:00	10	View	Remove
session 2	Dr. Aroop Mukherjee	2024-05-29 12:00	6	View	Remove
session 4	Dr Ashim Kumar Ghosh	2024-05-26 16:00	11	View	Remove



Saba Parween
admin@edoc.com

Log out

Dashboard

Doctors

Schedule

Appointment

Patients

← Back

Appointment Manager

Today's Date
2024-05-25


All Appointments (3)

Date:

Doctor:

Filter

Patient name	Appointment number	Doctor	Session Title	Session Date & Time	Appointment Date	Events
Md Asif Raza	1	Dr. Aroop Mukherjee	session 2	2024-05-29 12:00	2024-05-23	Cancel



Saba Parween
admin@edoc.com

Log out

Dashboard

Doctors

Schedule

Appointment

Patients

← Back

Search Patient name or Email


Search

Today's Date
2024-05-25

All Patients (2)

Name	Aadhar No	Telephone	Email	Date of Birth	Events
Md Asif Raza	987654321	0700154264	asif@gmail.com	2006-02-01	View
Arpan Dutta	987654323	0700154264	arpan@gmail.com	2001-09-18	View

Doctor Panel



Dr. Shreya S..
shreya32@gmail.com

Log out

Dashboard

My Appointments

My Sessions

My Patients

Settings

Dashboard

Today's Date
2024-05-25

Welcome!

Dr. Shreya Sushil Poddar.

Thanks for joinng with us. We are always trying to get you a complete service
You can view your daily schedule, Reach Patients Appointment at home!

View My Appointments

Status

7
All Doctors


3
All Patients

1
NewBooking

0
Today Sessions

Your Up Coming Sessions until Next week

Session Title	Scheduled Date	Time
session 3	2024-05-31	13:00
session 1	2024-05-30	10:00
session 2	2024-05-29	12:00



Dr. Shreya S..

shreya32@gmail.com

Log out

Dashboard

My Appointments

My Sessions

My Patients

Settings

← Back

Appointment Manager


Today's Date
2024-05-25

My Appointments (1)

Date: dd-mm-yyyy

Filter

Patient name	Appointment number	Session Title	Session Date & Time	Appointment Date	Events
Sneha Kumari	1	session 5	2024-07-15 @17:00	2024-05-25	<div>Cancel</div>



Dr. Shreya S..

shreya32@gmail.com

Log out

Dashboard

My Appointments

My Sessions

My Patients

Settings

← Back

My Sessions


Today's Date
2024-05-25

My Sessions (1)

Date: dd-mm-yyyy

Filter

Session Title	Sheduled Date & Time	Max num that can be booked	Events
session 5	2024-07-15 17:00	10	<div>View</div> <div>Cancel Session</div>



Dr. Shreya S..
shreya32@gmail.com

Log out

Dashboard

My Appointments

My Sessions

My Patients

Settings

← Back


Search

Today's Date
2024-05-25

My Patients (1)

Show Details About : My patients Only Filter

Name	NIC	Telephone	Email	Date of Birth	Events
Sneha Kumari	987654322	0700154264	sneha@gmail.com	2003-05-25	<div>View</div>



Dr. Shreya S..
shreya32@gmail.com

Log out

Dashboard

My Appointments

My Sessions


My Patients


Settings


← Back

Settings


Today's Date
2024-05-25

 **Account Settings**
Edit your Account Details & Change Password

 **View Account Details**
View Personal information About Your Account

 **Delete Account**
Will Permanently Remove your Account

Patient Panel

**Md Asif Raza..**
asif@gmail.com

Log out

[Home](#)[All Doctors](#)[Scheduled Sessions](#)[My Bookings](#)[Settings](#)

Home

Today's Date
2024-05-25

Welcome!

Md Asif Raza.

Haven't any idea about doctors? no problem let's jumping to "All Doctors" section or "Sessions"
Track your past and future appointments history.
Also find out the expected arrival time of your doctor or medical consultant.

Channel a Doctor Here

Status

7
All Doctors


3
All Patients

1

0

Your Upcoming Booking

Appoint. Number	Session Title	Doctor	Scheduled Date & Time
1	session 2	Dr. Aroop Mukherjee	2024-05-29 12:00

**Md Asif Raza..**
asif@gmail.com

Log out


[Home](#)[All Doctors](#)[Scheduled Sessions](#)[My Bookings](#)[Settings](#)

[< Back](#)

Today's Date
2024-05-25

All Doctors (7)

Doctor Name	Email	Specialties	Events	
Dr. Shreya Sushil Poddar	shreya32@gmail.com	Dermatology	View	Sessions
Dr. Farhan Ansari	farhan123@doc.com	Endocrinology	View	Sessions
Dr. Ajaya Nand Jha	ajaya42@gmail.com	Orthopaedics	View	Sessions
Dr. Aroop Mukherjee	ajayamukherjee@gmail	Neurosurgery	View	Sessions
Dr. Pritam Mitra	pritammitra@gmail.co	Dental, oral and max	View	Sessions
Dr. Amrita Sarkar	amritasarkar@gmail.c	Clinical biology	View	Sessions
Dr Ashim Kumar Ghosh	ashim6534@doc.com	Immunology	View	Sessions



Md Asif Raza..
asif@gmail.com

Log out

Home

All Doctors

Scheduled Sessions

My Bookings

Settings


← Back

Q

Search Doctor name or Email or Date (YYYY-MM-DD)

Search

Today's Date
2024-05-25



All Sessions(7)

session 4

Dr. Ashim Kumar Ghosh
2024-05-28
Starts: @16:00 (24h)

Book Now

session 2

Dr. Aroop Mukherjee
2024-05-29
Starts: @12:00 (24h)

Book Now

session 1

Dr. Pritam Mitra
2024-05-30
Starts: @10:00 (24h)

Book Now

session 3

Dr. Ajaya Nand jha
2024-05-31
Starts: @13:00 (24h)

Book Now

session 7


Dr. Farhan Ansari
2024-07-04
Starts: @10:00 (24h)

Book Now

session 5

Dr. Shreya Sushil Poddar
2024-07-15
Starts: @17:00 (24h)

Book Now



Md Asif Raza..
asif@gmail.com

Log out

Home

All Doctors

Scheduled Sessions


My Bookings

Settings

← Back

My Bookings history


Today's Date
2024-05-25



My Bookings (1)

Date:

dd-mm-yyyy



Filter

Booking Date: 2024-05-23
Reference Number: OC-000-6


session 2

Appointment Number:
01

Dr. Aroop Mukherjee
Scheduled Date: 2024-05-29
Starts: @12:00 (24h)

Cancel Booking

[21]



Md Asif Raza..
asif@gmail.com

Log out

Home

All Doctors

Scheduled Sessions


My Bookings

Settings


← Back

Settings


Today's Date
2024-05-25



Account Settings
Edit your Account Details & Change Password

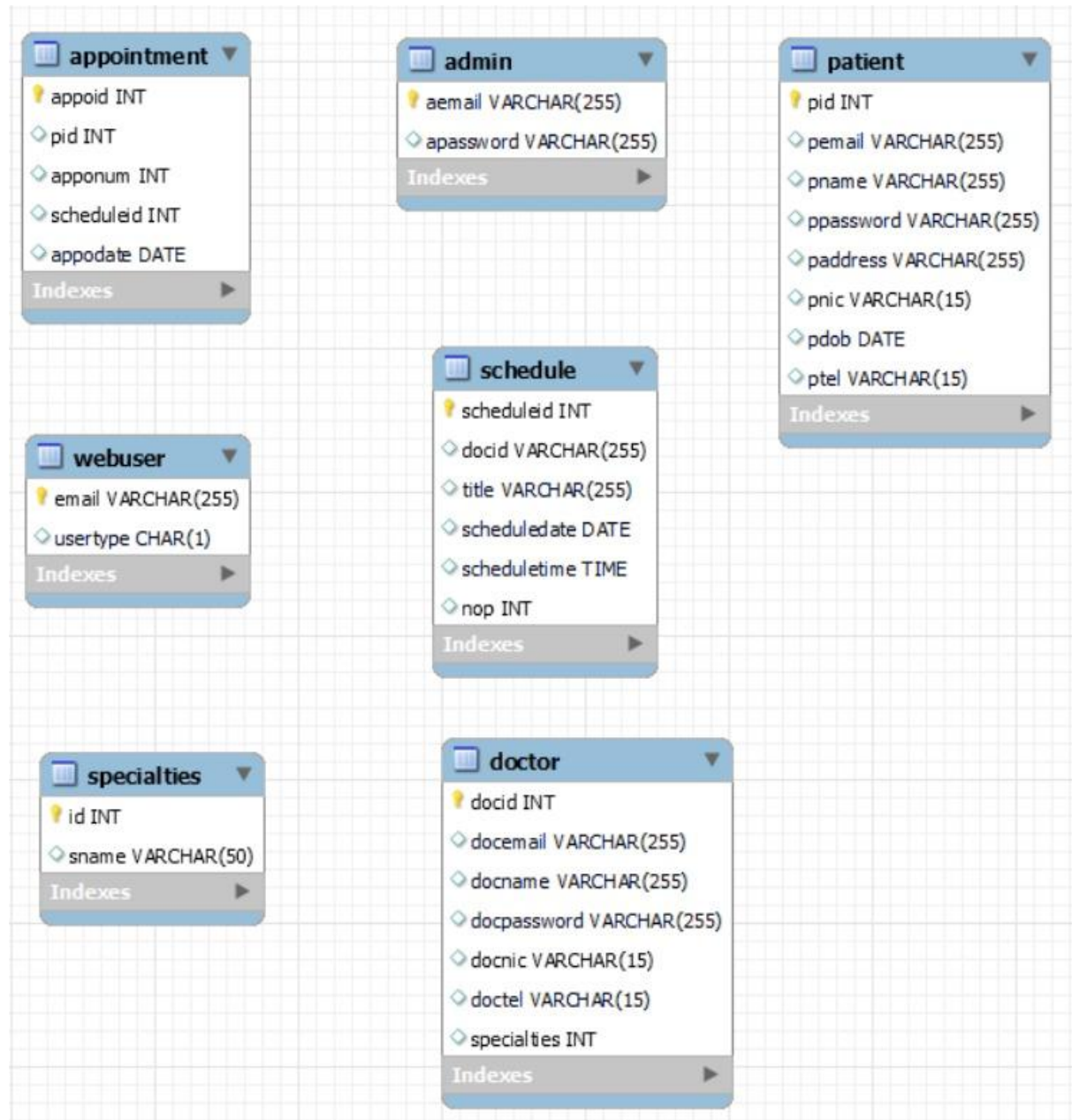


View Account Details
View Personal information About Your Account

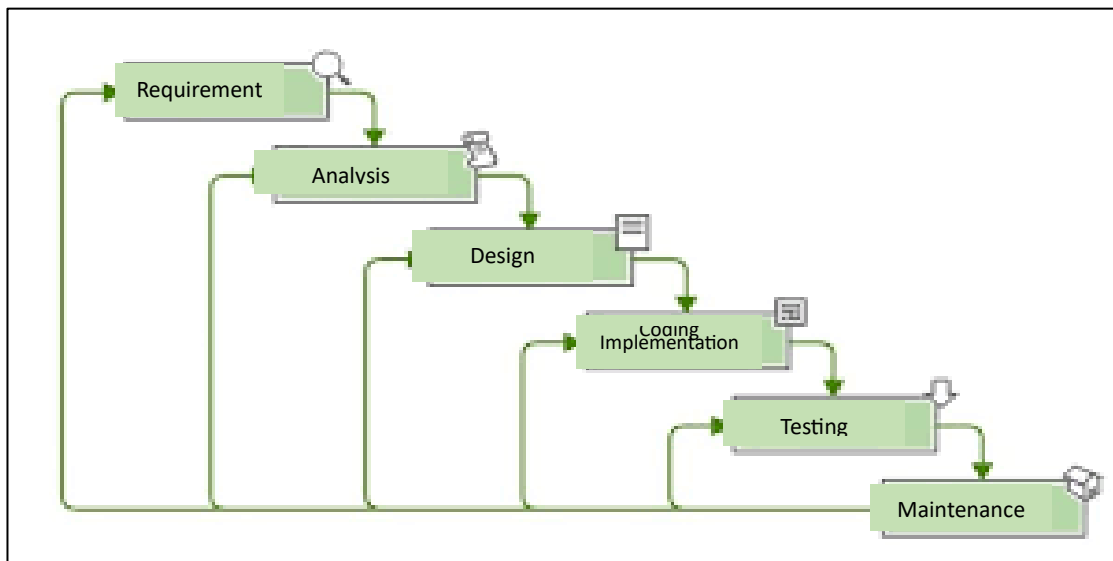


Delete Account
Will Permanently Remove your Account

Table Design of Database



Software Engineering Process Involved



We choose the WATERFALL MODEL due to the following reasons:

1. This model is chosen because our requirements are very well known, clear and fixed.
2. Product definition is stable.
3. There are no ambiguous requirements in our project.
4. The project is short.
5. This model is simple and easy to understand and use.
6. It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.
7. In this model, phases are processed and completed one at a time. Phases do not overlap.
8. Waterfall model works well for smaller projects where requirements are very well understood.

First of all, the feasibility study is done. Once that part is over the requirement analysis and project planning begins. After the requirements study is done, the design process begins, followed by the coding process. Once the programming is completed the testing is done.

In this model, the sequence of activities performed in a software development project are: -

- | | |
|-------------------------|---------------------------------|
| 1. Requirement Analysis | 5. Coding |
| 2. Project Planning | 6. Unit testing |
| 3. System design | 7. System integration & testing |
| 4. Detail design | |

Methodology Used for Testing

Unit Testing:

Description: Unit testing focuses on verifying individual components of the clinic management system, such as forms, classes, and functions.

Testing Approach: Each form, class, and function within the system is tested individually to ensure proper functionality and behavior.

Testing Scope: Control paths, interfaces, local data structures, logical decisions, boundary conditions, and error handling are thoroughly tested.

Testing Activities: Testing includes saving, retrieving, updating, deleting, and searching records within the system's database tables.

Integration Testing:

Description: Integration testing verifies the interaction and integration between different modules or components of the Clinic Appointment Booking System.

Testing Approach: Unit tested components, including forms and classes, are combined into subsystems, and their interactions are tested to ensure seamless integration.

Testing Scope: The focus is on validating the functionality and communication between subsystems to ensure they work together effectively.

Testing Activities: Testing involves checking the interoperability of various components and ensuring that data flows correctly between different modules.

System Testing:

Description: System testing evaluates the entire Clinic Appointment Booking System as a whole to ensure it meets the specified requirements and functions correctly.

Testing Approach: The system is tested in its entirety, including all integrated components and functionalities, to validate its compliance with the defined requirements.

Testing Scope: Emphasis is placed on verifying system-wide functionality, performance, usability, security, and reliability.

Testing Activities: Testing encompasses end-to-end scenarios, user interactions, data flows, error handling, and system responses under different conditions.

Acceptance Testing:

Description: Acceptance testing assesses whether the developed Clinic Appointment Booking System meets the needs and expectations of its intended users.

Testing Approach: Users and stakeholders actively participate in testing the system to determine its suitability for deployment and use in real-world scenarios.

Testing Scope: User acceptance criteria, feedback, and requirements are used as benchmarks for evaluating the system's acceptability.

Testing Activities: Testing involves user-driven scenarios, user interface evaluations, usability assessments, and validation against predefined acceptance criteria.

Code of the Project

Connection.php

```
<?php
$host="localhost";
$user="root";
$password="";
$db="hms_new";
$database= new mysqli($host,$user,$password,$db);
if ($database->connect_error){
    die("Connection failed: ".$database->connect_error);
}
?>
```

Admin Index. Php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="../css/animations.css">
    <link rel="stylesheet" href="../css/main.css">
    <link rel="stylesheet" href="../css/admin.css">

    <title>Dashboard</title>
    <style>
        .dashbord-tables{
            animation: transitionIn-Y-over 0.5s;
        }
        .filter-container{
            animation: transitionIn-Y-bottom 0.5s;
        }
        .sub-table{
            animation: transitionIn-Y-bottom 0.5s;
        }
    </style>
</head>
<body>
    <?php
    session_start();

    if(isset($_SESSION["user"])){
        if(($_SESSION["user"]=="" or $_SESSION['usertype']!='a'){
            header("location: ../login.php");
        }
    }

    }else{
        header("location: ../login.php");
    }
    //import database
    include("../connection.php");
    ?>
    <div class="container">
```

```

<div class="menu">
  <table class="menu-container" border="0">
    <tr>
      <!-- SideBar Start -->

      <td style="padding:10px" colspan="2">
        <table border="0" class="profile-container">
          <tr>
            <td width="30%" style="padding-left:20px" >
              
            </td>
            <td style="padding:0px;margin:0px;">
              <p class="profile-title"><?php echo $_SESSION['user'] ?></p>
            </td>
          </tr>
          <tr>
            <td colspan="2">
              <a href="../../logout.php" ><input type="button" value="Log out" class="logout-btn btn-primary-soft
btn"></a>
            </td>
          </tr>
        </table>
      </td>
    </tr>
    <tr class="menu-row" >
      <td class="menu-btn menu-icon-dashbord menu-active menu-icon-dashbord-active" >
        <a href="index.php" class="non-style-link-menu non-style-link-menu-active"><div><p class="menu-
text">Dashboard</p></a></div></a>
      </td>
    </tr>
    <tr class="menu-row">
      <td class="menu-btn menu-icon-doctor ">
        <a href="doctors.php" class="non-style-link-menu "><div><p class="menu-text">Doctors</p></a></div>
      </td>
    </tr>
    <tr class="menu-row" >
      <td class="menu-btn menu-icon-schedule">
        <a href="schedule.php" class="non-style-link-menu"><div><p class="menu-text">Schedule</p></div></a>
      </td>
    </tr>
    <tr class="menu-row">
      <td class="menu-btn menu-icon-appointment">
        <a href="appointment.php" class="non-style-link-menu"><div><p class="menu-text">Appointment</p></a></div>
      </td>
    </tr>
    <tr class="menu-row" >
      <td class="menu-btn menu-icon-patient">
        <a href="patient.php" class="non-style-link-menu"><div><p class="menu-text">Patients</p></a></div>
      </td>
    </tr>
  </table>
</div>
<!-- SideBar End -->
<!-- DashBody Start-->
<div class="dash-body" style="margin-top: 15px">
  <table border="0" width="100%" style=" border-spacing: 0;margin:0;padding:0;" >
    <tr >
      <td colspan="2" class="nav-bar" >

```



```

<table width="100%" border="0" class="dashbord-tables">
  <tr>
    <td>
      <p style="padding:10px;padding-left:48px;padding-bottom:0;font-size:23px;font-weight:700;color:var(--primarycolor);">
        Upcoming Appointments until Next <?php
        echo date("l",strtotime("+1 week"));
        ?>
      </p>
      <p style="padding-bottom:19px;padding-left:50px;font-size:15px;font-weight:500;color:#212529e3;line-height: 20px;">
        Here's Quick access to Upcoming Appointments until 7 days<br>
        More details available in @Appointment section.
      </p>
    </td>
    <td>
      <p style="text-align:right;padding:10px;padding-right:48px;padding-bottom:0;font-size:23px;font-weight:700;color:var(--primarycolor);">
        Upcoming Sessions until Next <?php
        echo date("l",strtotime("+1 week"));
        ?>
      </p>
      <p style="padding-bottom:19px;text-align:right;padding-right:50px;font-size:15px;font-weight:500;color:#212529e3;line-height: 20px;">
        Here's Quick access to Upcoming Sessions that Scheduled until 7 days<br>
        Add,Remove and Many features available in @Schedule section.
      </p>
    </td>
  </tr>
  <tr>
    <td width="50%">
      <center>
        <div class="abc scroll" style="height: 200px;">
          <table width="85%" class="sub-table scrollldown" border="0">
            <thead>
              <tr>
                <th class="table-headin" style="font-size: 12px;">
                  Appointment number
                </th>
                <th class="table-headin">
                  Patient name
                </th>
                <th class="table-headin">
                  Doctor
                </th>
                <th class="table-headin">
                  Session
                </th>
              </tr>
            </thead>
            <tbody>
              <?php
              $nextweek=date("Y-m-d",strtotime("+1 week"));

```



```
$sqlmain= "select
appointment.appoid,schedule.scheduleid,schedule.title,doctor.docname,patient.pname,schedule.scheduledate,schedule.sched
uletime,appointment.apponum,appointment.appodate from schedule inner join appointment on
schedule.scheduleid=appointment.scheduleid inner join patient on patient.pid=appointment.pid inner join doctor on
schedule.docid=doctor.docid where schedule.scheduledate>='$today' and schedule.scheduledate<='$nextweek' order by
schedule.scheduledate desc";
```

```
$result= $database->query($sqlmain);
```

```
if($result->num_rows==0){
    echo '<tr>
        <td colspan="3">
        <br><br><br><br>
        <center>
        

        <br>
        <p class="heading-main12" style="margin-left: 45px;font-size:20px;color:rgb(49, 49, 49)">We
couldnt find anything related to your keywords !</p>
        <a class="non-style-link" href="appointment.php"><button class="login-btn btn-primary-soft btn"
style="display: flex;justify-content: center;align-items: center;margin-left:20px;">&nbsp;   Show all Appointments
&nbsp;  </font></button>

        </a>
        </center>
        <br><br><br><br>
        </td>
        </tr>';
}
```

```
else{
    for ( $x=0; $x<$result->num_rows;$x++){
        $row=$result->fetch_assoc();
        $appoid=$row["appoid"];
        $scheduleid=$row["scheduleid"];
        $title=$row["title"];
        $docname=$row["docname"];
        $scheduledate=$row["scheduledate"];
        $scheduletime=$row["scheduletime"];
        $pname=$row["pname"];
        $apponum=$row["apponum"];
        $appodate=$row["appodate"];
        echo '<tr>

                <td style="text-align:center;font-size:23px;font-weight:500; color: var(--
btnnicetext);padding:20px;">

                    '.$apponum.'

                </td>

                <td style="font-weight:600;"> &nbsp;  '.

                    substr($pname,0,25)
                    .'</td >

                <td style="font-weight:600;"> &nbsp;  '.

                    substr($docname,0,25)
                    .'</td >
            </tr>';
    }
```

```

        <td>
        '.substr($title,0,15).'
        </td>

    </tr>';

    }
}

?>

</tbody>

</table>
</div>
</center>
</td>
<td width="50%" style="padding: 0;">
    <center>
        <div class="abc scroll" style="height: 200px;padding: 0;margin: 0;">
            <table width="85%" class="sub-table scrollldown" border="0" >
                <thead>
                    <tr>
                        <th class="table-headin">

                            Session Title

                        </th>

                        <th class="table-headin">
                            Doctor
                        </th>
                        <th class="table-headin">

                            Sheded Date & Time

                        </th>

                    </tr>
                </thead>
                <tbody>

                    <?php
                    $nextweek=date("Y-m-d",strtotime("+1 week"));
                    $sqlmain= "select
schedule.scheduleid,schedule.title,doctor.docname,schedule.scheduledate,schedule.scheduledtime,schedule.nop from schedule
inner join doctor on schedule.docid=doctor.docid where schedule.scheduledate>='$today' and
schedule.scheduledate<='$nextweek' order by schedule.scheduledate desc";
                    $result= $database->query($sqlmain);

                    if($result->num_rows==0){
                        echo '<tr>
                        <td colspan="4">
                        <br><br><br><br>
                        <center>

```

```



<br>
<p class="heading-main12" style="margin-left: 45px;font-size:20px;color:rgb(49, 49, 49)">We
couldnt find anything related to your keywords !</p>
<a class="non-style-link" href="schedule.php"><button class="login-btn btn-primary-soft btn"
style="display: flex;justify-content: center;align-items: center;margin-left:20px;">&nbsp;   Show all Sessions
&nbsp;  </font></button>

</a>
</center>
<br><br><br><br>
</td>
</tr>';

}
else{
for ( $x=0; $x<$result->num_rows;$x++){
$row=$result->fetch_assoc();
$scheduleid=$row["scheduleid"];
$title=$row["title"];
$docname=$row["docname"];
$scheduledate=$row["scheduledate"];
$scheduletime=$row["scheduletime"];
$nop=$row["nop"];
echo '<tr>
<td style="padding:20px;"> &nbsp;  '.
substr($title,0,30)
.'</td>
<td>
'.substr($docname,0,20).'
</td>
<td style="text-align:center;">
'.substr($scheduledate,0,10).' '.substr($scheduletime,0,5).'
</td>

</tr>';

}
}

?>

</tbody>

</table>
</div>
</center>
</td>
</tr>
<tr>
<td>
<center>
<a href="appointment.php" class="non-style-link"><button class="btn-primary btn"
style="width:85%">Show all Appointments</button></a>
</center>
</td>

```

```

                <td>
                    <center>
                        <a href="schedule.php" class="non-style-link"><button class="btn-primary btn" style="width:85%">Show
all Sessions</button></a>
                    </center>
                </td>
            </tr>
        </table>
    </td>

</tr>
</table>
</center>
</td>
</tr>
</table>
</div>
</div>

</body>
</html>

```

Doctor Index. Php

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="../css/animations.css">
    <link rel="stylesheet" href="../css/main.css">
    <link rel="stylesheet" href="../css/admin.css">

    <title>Dashboard</title>
    <style>
        .dashbord-tables,.doctor-heade{
            animation: transitionIn-Y-over 0.5s;
        }
        .filter-container{
            animation: transitionIn-Y-bottom 0.5s;
        }
        .sub-table,#anim{
            animation: transitionIn-Y-bottom 0.5s;
        }
        .doctor-heade{
            animation: transitionIn-Y-over 0.5s;
        }
    </style>

</head>
<body>
    <?php

    session_start();

```

```

if(isset($_SESSION["user"])){
    if(($_SESSION["user"]==" or $_SESSION['usertype']!= 'd'){
        header("location: ../login.php");
    }else{
        $useremail=$_SESSION["user"];
    }

}else{
    header("location: ../login.php");
}

//import database
include("../connection.php");
$userrow = $database->query("select * from doctor where docemail='$useremail'");
$userfetch=$userrow->fetch_assoc();
$userid= $userfetch["docid"];
$username=$userfetch["docname"];

//echo $userid;
//echo $username;

?>
<div class="container">
    <div class="menu">
        <table class="menu-container" border="0">
            <tr>
                <td style="padding:10px" colspan="2">
                    <table border="0" class="profile-container">
                        <tr>
                            <td width="30%" style="padding-left:20px" >
                                
                            </td>
                            <td style="padding:0px;margin:0px;">
                                <p class="profile-title"><?php echo substr($username,0,13) ?>..</p>
                                <p class="profile-subtitle"><?php echo substr($useremail,0,22) ?></p>
                            </td>
                        </tr>
                        <tr>
                            <td colspan="2">
                                <a href="../logout.php" ><input type="button" value="Log out" class="logout-btn btn-primary-soft
btn"></a>
                            </td>
                        </tr>
                    </table>
                </td>
            </tr>
            <tr class="menu-row" >
                <td class="menu-btn menu-icon-dashbord menu-active menu-icon-dashbord-active" >
                    <a href="index.php" class="non-style-link-menu non-style-link-menu-active"><div><p class="menu-
text">Dashboard</p></a></div></a>
                </td>
            </tr>
            <tr class="menu-row">
                <td class="menu-btn menu-icon-appointment">

```

```

        <a href="appointment.php" class="non-style-link-menu"><div><p class="menu-text">My
Appointments</p></a></div>
    </td>
</tr>

<tr class="menu-row" >
    <td class="menu-btn menu-icon-session">
        <a href="schedule.php" class="non-style-link-menu"><div><p class="menu-text">My Sessions</p></div></a>
    </td>
</tr>
<tr class="menu-row" >
    <td class="menu-btn menu-icon-patient">
        <a href="patient.php" class="non-style-link-menu"><div><p class="menu-text">My Patients</p></div>
    </td>
</tr>
<tr class="menu-row" >
    <td class="menu-btn menu-icon-settings">
        <a href="settings.php" class="non-style-link-menu"><div><p class="menu-text">Settings</p></div>
    </td>
</tr>

</table>
</div>
<div class="dash-body" style="margin-top: 15px">
    <table border="0" width="100%" style="border-spacing: 0;margin:0;padding:0;" >

        <tr >

            <td colspan="1" class="nav-bar" >
                <p style="font-size: 23px;padding-left:12px;font-weight: 600;margin-left:20px;"> Dashboard</p>

            </td>
            <td width="25%">

            </td>
            <td width="15%">
                <p style="font-size: 14px;color: rgb(119, 119, 119);padding: 0;margin: 0;text-align: right;">
                    Today's Date
                </p>
                <p class="heading-sub12" style="padding: 0;margin: 0;">
                    <?php
                    date_default_timezone_set('Asia/Kolkata');

                    $today = date('Y-m-d');
                    echo $today;

                    $patientrow = $database->query("select * from patient;");
                    $doctorrow = $database->query("select * from doctor;");
                    $appointmentrow = $database->query("select * from appointment where appodate>='$today'");
                    $schedulerow = $database->query("select * from schedule where scheduledate='$today'");

                    ?>
                </p>
            </td>
            <td width="10%">

```

[illegible]


```

Next week</p>
<p id="anim" style="font-size: 20px;font-weight:600;padding-left: 40px;">Your Up Coming Sessions until

<center>
  <div class="abc scroll" style="height: 250px;padding: 0;margin: 0;">
    <table width="85%" class="sub-table scrolldown" border="0" >
      <thead>

        <tr>
          <th class="table-headin">

            Session Title

          </th>

          <th class="table-headin">
            Sheduled Date
          </th>
          <th class="table-headin">

            Time

          </th>

        </tr>
      </thead>
      <tbody>

        <?php
          $nextweek=date("Y-m-d",strtotime("+1 week"));
          $sqlmain= "select
schedule.scheduleid,schedule.title,doctor.docname,schedule.scheduledate,schedule.scheduledtime,schedule.nop from schedule
inner join doctor on schedule.docid=doctor.docid where schedule.scheduledate>='$today' and
schedule.scheduledate<= '$nextweek' order by schedule.scheduledate desc";
          $result= $database->query($sqlmain);

          if($result->num_rows==0){
            echo '<tr>
              <td colspan="4">
                <br><br><br><br>
                <center>
                  

                <br>
                <p class="heading-main12" style="margin-left: 45px;font-size:20px;color:rgb(49, 49, 49)">We
couldnt find anything related to your keywords !</p>
                <a class="non-style-link" href="schedule.php"><button class="login-btn btn-primary-soft btn"
style="display: flex;justify-content: center;align-items: center;margin-left:20px;">&nbsp;&nbsp;  Show all Sessions
&nbsp;&nbsp;&nbsp;</font></button>

                </a>
              </center>
              <br><br><br><br>
            </td>
          </tr>';
          }

```



```

        .dashbord-tables{
            animation: transitionIn-Y-over 0.5s;
        }
        .filter-container{
            animation: transitionIn-Y-bottom 0.5s;
        }
        .sub-table,.anime{
            animation: transitionIn-Y-bottom 0.5s;
        }
    </style>

</head>
<body>
    <?php

        session_start();

        if(isset($_SESSION["user"])){
            if(($_SESSION["user"]=="" or $_SESSION['usertype']!= 'p'){
                header("location: ../login.php");
            }else{
                $useremail=$_SESSION["user"];
            }

        }else{
            header("location: ../login.php");
        }

        //import database
        include("../connection.php");

        $sqlmain= "select * from patient where pemail=?";
        $stmt = $database->prepare($sqlmain);
        $stmt->bind_param("s",$useremail);
        $stmt->execute();
        $userrow = $stmt->get_result();
        $userfetch=$userrow->fetch_assoc();

        $userid= $userfetch["pid"];
        $username=$userfetch["pname"];

    ?>
    <div class="container">
        <div class="menu">
            <table class="menu-container" border="0">
                <tr>
                    <td style="padding:10px" colspan="2">
                        <table border="0" class="profile-container">
                            <tr>
                                <td width="30%" style="padding-left:20px" >
                                    
                                </td>
                                <td style="padding:0px;margin:0px;">
                                    <p class="profile-title"><?php echo substr($username,0,13) ?>..</p>
                                </td>
                            </tr>
                        </table>
                    </td>
                </tr>
            </table>
        </div>
    </div>

```

```

        <p class="profile-subtitle"><?php echo substr($useremail,0,22) ?></p>
    </td>
</tr>
<tr>
    <td colspan="2">
        <a href="../logout.php" ><input type="button" value="Log out" class="logout-btn btn-primary-soft
btn"></a>
    </td>
</tr>
</table>
</td>
</tr>
<tr class="menu-row" >
    <td class="menu-btn menu-icon-home menu-active menu-icon-home-active" >
        <a href="index.php" class="non-style-link-menu non-style-link-menu-active"><div><p class="menu-
text">Home</p></a></div></a>
    </td>
</tr>
<tr class="menu-row">
    <td class="menu-btn menu-icon-doctor">
        <a href="doctors.php" class="non-style-link-menu"><div><p class="menu-text">All Doctors</p></a></div>
    </td>
</tr>

<tr class="menu-row" >
    <td class="menu-btn menu-icon-session">
        <a href="schedule.php" class="non-style-link-menu"><div><p class="menu-text">Scheduled
Sessions</p></div></a>
    </td>
</tr>
<tr class="menu-row" >
    <td class="menu-btn menu-icon-appointment">
        <a href="appointment.php" class="non-style-link-menu"><div><p class="menu-text">My Bookings</p></a></div>
    </td>
</tr>
<tr class="menu-row" >
    <td class="menu-btn menu-icon-settings">
        <a href="settings.php" class="non-style-link-menu"><div><p class="menu-text">Settings</p></a></div>
    </td>
</tr>

</table>
</div>
<div class="dash-body" style="margin-top: 15px">
    <table border="0" width="100%" style="border-spacing: 0;margin:0;padding:0;" >

        <tr >

            <td colspan="1" class="nav-bar" >
                <p style="font-size: 23px;padding-left:12px;font-weight: 600;margin-left:20px;">Home</p>

            </td>
            <td width="25%">

            </td>
            <td width="15%">
                <p style="font-size: 14px;color: rgb(119, 119, 119);padding: 0;margin: 0;text-align: right;">
                    Today's Date

```



```

        Session Title

    </th>

    <th class="table-headin">
        Doctor
    </th>
    <th class="table-headin">

        Sheduled Date & Time

    </th>

</tr>
</thead>
<tbody>

<?php
$nextweek=date("Y-m-d",strtotime("+1 week"));
$sqlmain= "select * from schedule inner join appointment on
schedule.scheduleid=appointment.scheduleid inner join patient on patient.pid=appointment.pid inner join doctor on
schedule.docid=doctor.docid where patient.pid=$userid and schedule.scheduledate>='$today' order by
schedule.scheduledate asc";
//echo $sqlmain;
$result= $database->query($sqlmain);

if($result->num_rows==0){
    echo '<tr>
    <td colspan="4">
    <br><br><br><br>
    <center>
    

    <br>
    <p class="heading-main12" style="margin-left: 45px;font-size:20px;color:rgb(49, 49, 49)">Nothing
to show here!</p>

    <a class="non-style-link" href="schedule.php"><button class="login-btn btn-primary-soft btn"
style="display: flex;justify-content: center;align-items: center;margin-left:20px;">&nbsp;   Channel a Doctor
&nbsp;  </font></button>

    </a>
    </center>
    <br><br><br><br>
    </td>
    </tr>';
}
else{
for ( $x=0; $x<$result->num_rows;$x++){
    $row=$result->fetch_assoc();
    $scheduleid=$row["scheduleid"];
    $title=$row["title"];
    $apponum=$row["apponum"];
    $docname=$row["docname"];
    $scheduledate=$row["scheduledate"];
    $schedulesetime=$row["schedulesetime"];

```



```

echo '<tr>
  <td style="padding:30px;font-size:25px;font-weight:700;"> &nbsp;   '.
$apponum
.'</td>
  <td style="padding:20px;"> &nbsp;   '.
substr($title,0,30)
.'</td>
  <td>
    '.substr($docname,0,20).'
  </td>
  <td style="text-align:center;">
    '.substr($scheduledate,0,10).' '.substr($schedulesite,0,5).'
  </td>

</tr>';

}
}

?>

</tbody>

</table>
</div>
</center>

</td>
</tr>
</table>
</td>
<tr>
</table>
</div>
</div>

</body>
</html>

```

Conclusion

The Clinic Appointment Booking System offers a comprehensive set of features, including patient registration, appointment scheduling, medical records management, billing, and reporting capabilities. By leveraging technologies such as HTML, CSS, JavaScript, PHP, and SQL, the system provides a user-friendly and intuitive interface for both healthcare providers and patients, facilitating seamless interaction and information exchange.

In summary, the Clinic Appointment Booking System represents a valuable asset for healthcare facilities seeking to optimize their operations, improve patient outcomes, and deliver high-quality care. By embracing innovation and leveraging technology, the system contributes to the advancement of healthcare delivery and supports the overarching goal of enhancing the patient experience.