

HOSPITAL FINDER

A PROJECT REPORT

Submitted by,

Mr. Modepalli Venkata Sathwik Reddy - 20201CSE0058

Ms. Harshitha Gowda R – 20201CSE0068

Mr. Sai Vikas G - 20201CSE0018

Ms. Vinisha S - 20201CSE0028

Under the guidance of,

Dr. Saritha K

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PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project report “HOSPITAL FINDER” being submitted by “Modepalli Venkata Sathwik Reddy, Harshitha Gowda R, Sai Vikas G, Vinisha S” bearing roll number(s) “20201CSE0058, 20201CSE0068, 20201CSE0018, 20201CSE0028” in partial fulfilment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

K Saritha
DR. SARITHA K

Associate Professor - Selection Grade
School of CSE
Presidency University

Pallavi
DR. PALLAVI R
HoD & Associate Professor
School of CSE
Presidency University

C Kalaiarasan
Dr. C. KALAIARASAN
Associate Dean
School of CSE&IS
Presidency University

L Shakkeera
Dr. L. SHAKKEERA
Associate Dean
School of CSE&IS
Presidency University

assane
Dr.Md. SAMEERUDDIN KHAN
Dean
School of CSE&IS
Presidency University

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **HOSPITAL FINDER** in partial fulfilment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Dr. Saritha K, Associate Professor, School of Computer Science and Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

Name:	Roll Number:	Signature:
Modepalli Venkata Sathwik Reddy	20201CSE0058	<u>Sathwik Reddy</u>
Harshitha Gowda R	20201CSE0068	<u>Harshitha Gowda</u>
Sai Vikas G	20201CSE0018	<u>Vikas</u>
Vinisha S	20201CSE0028	<u>Vinisha</u>

ABSTRACT

The Hospital Finder application is an innovative and advanced web-based platform that provides patients with a comprehensive interface to locate hospitals within their vicinity that offer specialized healthcare services tailored to their specific medical conditions. This user-friendly and highly intuitive application allows patients to search for hospitals and book appointments online, which helps to reduce the waiting times for patients to receive the necessary care and treatment they need to get better.

The primary objective of the Hospital Finder application is to help patients become more aware of their medical needs and the right specialists to attend to their healthcare needs. The application provides a wealth of information on hospitals, including the medical specialties offered, the qualifications of the physicians, and the availability of slots for appointments. Patients can choose the right specialist based on their health condition, book appointments at a suitable time and date, and benefit from high-quality healthcare services that are customized to their specific needs.

The Hospital Finder is an easy-to-use and highly efficient web application that offers a range of features to help patients locate the best healthcare providers in their area. The application is designed to be intuitive and user-friendly, with a simple interface that makes it easy for patients to navigate. Additionally, the Hospital Finder saves patients valuable time by eliminating the need to spend hours searching for the right specialist or hospital. Overall, the Hospital Finder application is an invaluable resource for patients seeking specialized medical care, offering convenience, efficiency, and high-quality healthcare services.

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Modepalli Venkata Sathwik Reddy

Harshitha Gowda R

Vinisha S

Sai Vikas G

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CHAPTER-1

INTRODUCTION

1.1.1 PURPOSE:

The internet has become an essential part of our daily lives, and almost everyone has access to it. People can use web applications through smartphones and laptops to communicate with a vast population seamlessly. Smartphones come equipped with various sensors like GPS position sensors, fingerprint sensors, gyroscopes, and accelerometers, making them highly efficient devices. Many households have people with health issues like cholesterol, blood pressure, and heart problems that require constant monitoring. Fortunately, various health-related apps are available on the Google Play store, and new ones are uploaded daily. These apps help manage health-related issues, including hospital locations, appointment scheduling, medicine reminders, and more.

A health-based web application goes a step further by making it easier and more accessible to manage one's health. Such applications are designed to cater to the specific needs of people with health issues, and they can make a significant difference in managing chronic conditions. For example, Hospital Finder is a web application that helps users locate nearby hospitals based on specific requirements, book appointments based on doctors' availability, and manage patient data. To ensure that the Hospital Finder web application is useful and easy to use, it is essential to regularly update hospital and doctor information. This can help users make informed decisions about their healthcare needs and make the process of finding and booking appointments more seamless.

So, web applications have revolutionized the healthcare industry and made it easier to manage health-related issues. With the right information and tools at their disposal, people can take charge of their health and make informed decisions about their well-being.

1.1.2 SCOPE:

The ultimate aim of our healthcare system is to elevate the standards of patient care, enhance accessibility, and ensure utmost efficiency across the entire healthcare industry. We believe that every individual deserves timely access to quality medical treatment, and that's precisely what our user-friendly platform strives to achieve. With a seamless and intuitive interface that enables users to easily locate healthcare facilities, we're committed to bridging the gap between patients and healthcare providers. Furthermore, we firmly believe that technology can play a pivotal role in optimizing patient management and treatment processes. By leveraging the power of cutting-edge technologies, we're constantly working towards streamlining healthcare operations and providing a hassle-free healthcare experience to all our users.

1. **User-Friendly Interface:** The focus on a user-friendly interface implies that your platform is crafted to provide an effortless and seamless experience to its users, enabling them to effortlessly navigate through the system's features. This ensures that healthcare providers and patients alike can utilize the system effectively, without encountering any unnecessary complexities or obstacles.
2. **Geolocation Feature:** The aforementioned situation often arises when people are in need

of medical attention but find themselves in an unfamiliar place. This can be a particularly challenging and stressful experience for individuals who may not be familiar with the healthcare system or medical facilities in the area.

3. **Time-saving:** The statement implies that the system is designed to assist individuals in saving their valuable time, indicating a strong emphasis on efficiency. In healthcare settings, where prompt access to medical services can have a significant impact on patient outcomes, time-saving capabilities can be especially crucial.
4. **Appointment Booking:** Our platform offers seamless integration with hospital systems, enabling users to conveniently book appointments with their preferred doctors or for specific services. Additionally, our system sends timely notifications and reminders to ensure that users never miss their scheduled appointments, thereby minimizing the risk of delays or cancellations. With our platform, booking and managing appointments has never been easier, safer, and more efficient.
5. **Empowering Healthcare Providers:** The notion of empowering healthcare providers implies that the system goes beyond mere automation and offers a range of sophisticated tools and resources to help healthcare professionals enhance the quality of patient care. These tools may include streamlined record-keeping and documentation processes, communication and collaboration tools, or decision support systems that enable healthcare providers to make informed decisions and provide personalized care to patients. Ultimately, this empowerment of healthcare providers aims to improve patient outcomes and deliver better care experiences.
6. **Convenience for Patients:** The healthcare industry is increasingly prioritizing the need to provide patients with more convenient access to essential care services. This reflects a growing commitment to enhancing the overall patient experience by offering features such as user-friendly appointment scheduling tools, virtual consultations with healthcare providers, and easy-to-access health information resources. By adopting such innovative solutions, healthcare providers can empower patients to take greater control of their health and well-being, while also streamlining the delivery of care services and optimizing healthcare outcomes.
7. **Doctor's Information:** The website should provide an extensive and comprehensive list of all the doctors associated with the medical practice or clinic. For each doctor, their name, contact details (such as phone number and email address), and website link should be provided. Additionally, the website should offer detailed information about the services offered by the medical practice, including emergency care, specialities, facilities, and medical equipment available. This information can help patients make informed decisions about their healthcare needs and choose the most suitable doctor or medical facility for their specific health concerns.

CHAPTER-2

LITERATURE SURVEY

2.1 (Online appointment System, Venkatesh Rallapalli, Dipti Menghani, Hema Gallani, Gaytri Aasija, Dr. Dashrath Mane):

In this paper, we will delve into the details of an innovative web-based system that has the potential to transform the way patients book doctor appointments. This cutting-edge system is designed to address the long-standing issue of scheduling appointments with physicians, which has been a time-consuming and often frustrating experience for patients. This system uses advanced technology to provide fast and high-quality medical services. It connects doctors and patients through a user-friendly platform for booking appointments. Patients can access the system from anywhere, at any time, using their computers or mobile devices, making it highly convenient and accessible. One of the key features of this system is its ability to provide patients with a wealth of information about the doctors available on the platform. Patients can view detailed profiles of the doctors, including their areas of specialization, experience, and other important details. This information empowers patients to make informed decisions about their healthcare and choose the best doctors to meet their unique needs. Patients can also read reviews and ratings from other patients, which can help them to make more informed decisions. This system is a game-changer in healthcare, offering convenience and accessibility to patients while ensuring the best possible care from qualified physicians. With innovative technology, it revolutionizes healthcare access, making it easier and more efficient.

2.2 (A Doctor Appointment Booking System, D. Bharadwaja, Ch. Bhavya Sri, G. Aswani, G. Sushma, Ch. Prabhu Kiran):

The main objective of this paper is to create a highly efficient and user-friendly web application that enables patients to easily book doctor appointments online. The platform will offer a personalized account for each patient, ensuring a secure and convenient way to manage their medical needs. Patients can schedule, reschedule, or cancel appointments with ease, and they will have access to their medical records and treatment plans through the platform. The web application will serve both doctors and patients, providing them with a streamlined and intuitive system for managing their healthcare needs. With this platform, patients will be able to book appointments with their preferred doctors and receive timely reminders to ensure they don't miss any appointments. Additionally, doctors will be able to use the system to manage their schedules, view patient records, and communicate with their patients. The web application will be designed with advanced security features to ensure the privacy and confidentiality of patient information. Overall, this platform will revolutionize the way patients and doctors manage healthcare needs, making the process more efficient and convenient for all parties involved.

2.3 (ANDROID-BASED HOSPITAL FINDER APPLICATION USING GLOBAL POSITIONING SYSTEM(GPS), Devayani.Ga, Hari Priya.R, Sruthi.S, C.Senthil Kumar, Assistant Professor):

The focus of this paper is on the latest generation of smartphones that utilize Global Positioning System (GPS) technology to locate the nearest hospitals and provide directions through Google Maps. The Hospital Finder App is a revolutionary smartphone application that aims to aid users in finding the closest hospital with a specific specialization within a radius of five kilometres. The app provides a user-friendly interface for medical assistance. It offers information on hospitals, doctors, their specialities, qualifications, and experience. This helps users to make informed decisions while choosing a hospital or doctor. The app lets users book appointments online and manage their medical records, making it a one-stop healthcare management tool. The app also features a secure data management system that allows users to store their medical records and history. This data can be accessed by authorized medical professionals in case of an emergency or consultation. The data management system is designed to ensure the privacy and security of user data, making it a safe and reliable tool for managing medical records. Overall, it is a game-changer in the healthcare industry, providing users with quick and efficient access to essential healthcare services. The app's features such as hospital and doctor information, online appointments, and medical record management make it an indispensable tool for anyone in need of medical assistance.

2.4 (Implementation of Hospital-Finder \, Shivam Bajpai, Tushar Modi, Vatsalya Vinay Sinha, Vidhi Jaiswal):

The primary focus of this paper is to discuss the utilization of location-based services that aim to enhance the overall functionality of smartphones by providing users with relevant information retrieval services based on their current location. This application has been developed to provide users with a user-friendly platform for finding the nearest Ayush hospital based on their current location. With this app, users can easily access detailed information about the hospital's exact location and other crucial details, ensuring a seamless experience. Whether you need to find an Ayush hospital for yourself or a loved one, this app is an excellent tool for simplifying the process. With this feature, users can easily locate hospitals from any location and access vital information such as opening and closing times, availability of doctors, and the number of beds available in the hospital. The application utilizes advanced location-based technologies to provide users with the most accurate and up-to-date information, allowing them to make informed decisions when seeking medical assistance. Furthermore, the application is designed to be user-friendly and intuitive, with a simple and easy-to-navigate interface that allows users to access the information they need quickly and efficiently. With this application, users can rest assured that they will be able to find the nearest Ayush hospital and obtain the necessary information to make informed decisions regarding their health and well-being.

2.5 (GPS-Based Android Application for Healthcare Dissemination ,Ajay Kumar G R, Akash Aman, Avinash Kumar, Harshith L):

The primary objective of this research paper is to develop a highly advanced and comprehensive system that can accurately predict diseases based on the symptoms exhibited by the patients. Additionally, the system aims to provide users with a seamless and hassle-free navigation system that helps them locate hospitals offering the required medical services. To achieve this, the proposed system integrates an intuitive Android application for navigation and disease prediction, along with a J2EE Web Application for user authentication and registration. The platform provides a comprehensive solution that integrates a multitude of features, such as hospital details, department information, available services, common symptoms, and prevalent diseases, all in an intuitive interface. The navigation system is bolstered by cutting-edge GPS technology, empowering users to effortlessly identify and reach the nearest hospital that caters to their specific medical requirements. The system's data is stored in a reliable and robust MySQL database, ensuring that users always have access to the latest information. This application is particularly useful during emergencies and critical situations where time is of the essence, and navigating to hospitals based on the services they offer is essential. With its diverse range of features, the application offers a one-stop solution for all your healthcare needs, making it an indispensable tool for patients, healthcare providers, and medical professionals alike.

2.6 (Android-Based Patient's Healthcare Management System, Sajeetha Thavareesan):

This research paper delves into the features and functionality of an innovative healthcare application called "MyCare." This application has been designed to provide a comprehensive solution for managing and tracking physical signs and daily activities related to health. The MyCare system leverages the latest in smartphone technology and wireless sensor networks to collect and store essential health data which is easily accessible to both patients and healthcare providers. MyCare is a healthcare application that focuses on seamless communication between patients and healthcare providers. It offers a communication channel that allows patients to stay in touch with their medical team via SMS and data transfer, ensuring timely medical advice and support. The MyCare application is also designed to be intuitive and user-friendly, which is especially important for patients who may not be tech-savvy. The interface has been crafted to provide an easy-to-use platform that allows patients to review their health data and track their progress over time. This makes it easier for patients to take an active role in managing their health. Overall, the MyCare system aims to provide a comprehensive and streamlined solution for managing and reviewing health-related data that is both patient-centered and healthcare provider-focused. By leveraging the latest in technology and communication channels, the MyCare application has the potential to revolutionize the way patients and healthcare providers interact and collaborate to achieve better health outcomes.

2.7 Domain-Specific Search of the Nearest Hospital and Healthcare Management System

GANAPATHI SHANKAR , DR. D. SUBBA RAO

This paper discusses the importance of electronic health records in mobile healthcare systems. It also mentions the benefits of the system for senior people and chronic patients. They use cloud computing technology for storing and retrieving health information. It mentions the functionality of the system, such as tracking the optimal hospital and generating electronic health records.

The system will maintain the health record of the user. the system will provide all health-related information of patients with prescriptions to the hospital.

Unlike, other healthcare systems this is useful and helpful for senior people and chronic patients Hospital Services are needed on an emergency and daily basis and play a crucial role. It also enables electronic healthcare data storage, updating, and health information systems that are still proprietary and retrieved using Cloud Computing. The life reminder function checks their health status at any time and anywhere via is useful and helpful for senior people and chronic mobile devices with the support of Web technologies. People can use electronic health Records (EHR) to keep and maintain their health records on the cloud for convenience and safety. Future work is to Implement a Nearest Distance Tracking Algorithm, Tracking Different Parameter of Blood modules and clinic Module. Hospital Information Maintenance and Database Update, Deployment on Cloud Improve the Graphics User Interface.

2.8 Medilog – A Social Friendly Android Application for Maintaining Medical Logs And Locating Health Centres Bhuvaneswari A, Swathi N

This paper focuses on a project Medilog which is a mobile application that stores patient medical records, allowing doctors to access them by entering the patient's mobile number and generating an OTP, while also providing many features.

It also includes features such as pill reminders and a nearby hospital finder. The application aims to reduce the use of paper records and provide easy access to medical information. It is developed using the Android operating system and Firebase platform. The application allows patients to upload, classify, and access their medical records, as well as locate nearby hospitals in case of emergencies. Doctors can access patient records by entering their mobile phone number. The application provides a user-friendly interface and helps both patients and doctors in managing medical information. All fields are validated by the application, and if validation is successful, the medical records are stored. Both the patient and the doctor can classify and view the medical record based on their requirements after it has been uploaded as shown, or they can search for the report by typing text into the search bar. Every patient has a collection of documents, which they can categorize according to their needs.

2.9 An Android based Application for Determine a Specialized Hospital Nearest to Patient's Location Muhammad Wasim Munir, Syed Muhammad Omair ,M. Zeeshan Ul Haque

This paper presents an Android-based mobile application that can determine the nearest specialized hospital to a patient's location. The application was developed using Java programming language in the Eclipse IDE. It uses the Android SDK and collects data on doctors and hospitals from an informational survey conducted in Karachi, Pakistan. The app interface displays different medical specialization categories. Upon selecting one, it shows a list of nearby hospitals within 5 km using the device's GPS. It provides hospital and doctor profiles with contact details. Users can view routes to hospitals on Google Maps. The app aims to help patients easily find a suitable hospital in emergencies or for appointments. The application determines nearby hospitals to the user's location by utilizing the built-in Global Positioning System (GPS) feature of smartphones. It calculates the nearest position of hospitals within a radius of five kilometers. Once the user selects a medical specialization category, the app uses the GPS to find the route from the user's current location to the nearest hospitals within the specified radius. Additionally, it displays the distance and route to each hospital using the Google Maps application Program Interfaces (API).

2.10 Hospital Finder by Android Software, Egbal Ahmed Hassan Ahmed, Prof. Dr. Dieter Fritsch

This paper discusses the mechanism of an application that uses GPS to locate users and provide information about nearby health units. It emphasizes the potential of Android operating systems for creating useful applications. The goal is to motivate developers to create similar applications to meet the needs of people in Sudan. The text also mentions the use of GIS technology for spatial analysis of hospitals in Omdurman. The text outlines the steps in creating the application, including gathering information about hospitals, determining their coordinates using GPS, and storing the information in a WAMP server. The selection of hospitals is based on their distance from the user. They are gathering information about hospitals like specializations and health services to test the efficiency of the app and Determine the coordinates of the hospitals using the Global Positioning System (GPS) They store all the information and coordinates of hospitals in the WAMP server MySQL and Use Android Studio to create the system.

CHAPTER-3

RESEARCH GAPS OF EXISTING METHODS

- 3.1** To ensure that users can reach their intended medical facility without any difficulty, it is of utmost importance to input the precise address of the hospital within the application. By making use of maps that are integrated within the app, users will be able to locate the hospital with ease and convenience, without having to worry about getting lost or confused. This feature will go a long way in providing a seamless experience to users who are in need of medical assistance.
- 3.2** To ensure users' privacy and prevent data theft, we utilize various cryptographic methods to secure reports and data. These techniques involve transforming data into an unreadable format using mathematical algorithms and keys, making it inaccessible to unauthorized parties. Cryptography is a powerful tool that can prevent tampering, theft, and unauthorized access to sensitive information. By using strong cryptographic methods such as encryption, hashing, and digital signatures, we can safeguard user data and reports from potential cyber-attacks and data breaches. So, we take every necessary step to ensure that our users' data is always secure and well-protected.
- 3.3** Accessing reliable and up-to-date ratings for hospital facilities, doctors, and treatments is essential for making informed decisions about healthcare. By having access to this information, users can evaluate the quality of care offered by different healthcare providers in their area and choose the best option for their needs. Such ratings can provide valuable insights into factors such as the success rates of treatments, the experience and qualifications of healthcare professionals, and the overall quality of service provided by the hospital. This information can be particularly useful for those who are new to an area or seeking specialist care. By choosing the best rated hospital near them, users can feel confident that they are receiving the highest quality care possible.
- 3.4** One of the ways we can enhance the healthcare service is by introducing video call appointments for patients to consult doctors remotely. This means that patients can receive medical advice from the comfort of their own homes without having to physically visit the healthcare facility. It will also benefit people who live in remote areas or have mobility issues. These video call appointments can be scheduled at a convenient time, and doctors can provide a more personalized consultation. Additionally, it will reduce the burden on healthcare facilities and improve the overall patient experience.
- 3.5** To improve the facilities, we can incorporate a feature to book an ambulance. This can be made possible by adding an alert button on the platform, which, when clicked, will trigger the system to track the user's GPS location in real-time and automatically dispatch an ambulance to their whereabouts. This feature will greatly improve the safety and security of our users and provide them with a reliable and efficient way to request medical assistance whenever they need it.

CHAPTER-4

PROPOSED MOTHODOLOGY

The methodology followed consisted of two steps.

To begin the process, we conducted a comprehensive survey to gather relevant information about the hospital as well as the doctors working there. This survey helped us sort the list of doctors based on their respective specializations. Once this step was completed, we proceeded to the next stage which involved the implementation of a user-friendly web application.

To successfully carry out a project or develop a product, it is important to go through a series of phases.

4.1 Phases of the project:

- 4.1.1 Research:** This involves conducting a thorough investigation to gather information necessary for the project or our product development.
- 4.1.2 Prototyping:** In this phase, a preliminary version of the product was created to determine its design and functionality.
- 4.1.3 Testing:** The prototype was then subjected to various tests to evaluate its performance and identify any issues or flaws.
- 4.1.4 Implementation:** Once the prototype has been refined and tested, it is ready to be implemented or launched. This involves creating the final version of the product and making it available for use by the intended audience. The web application can be designed to be user-friendly and accessible to all patients of all ages and backgrounds. the phases will be iterative with regular testing and feedback from users to ensure the application meets their needs.

4.2 Software and tools used are-

- 4.2.1 HTML** - Hypertext Markup Language is a standard markup language used to create basic web pages and applications.
- 4.2.2 CSS** - Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in HTML or XML.
- 4.2.3 JavaScript** - A high-level, interpreted programming language that is used to make web pages interactive and dynamic.
- 4.2.4 XAMPP** - A free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.
- 4.2.5 PHP** - A popular server-side scripting language that is used to develop dynamic websites and web applications.
- 4.2.6 Windows 11** - The latest version of the Windows operating system, which features a revamped design, improved performance, and new productivity features. First, we

need to identify the user needs that is to gather the list of hospitals and doctor's information, Online booking appointments, and customer support and feedback.

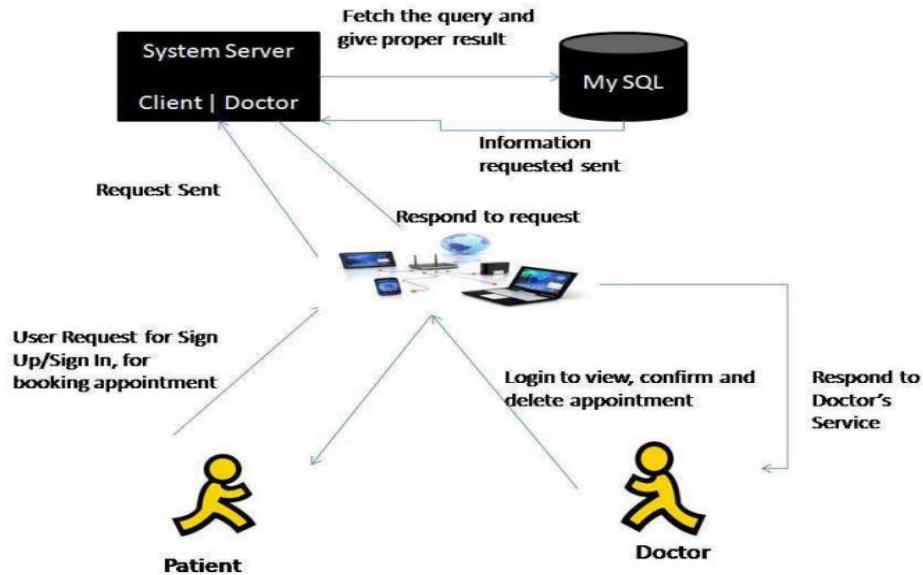


Fig 4.1 PROPOSED METHOD

Our next step was to focus on developing the user interface for our web application. The user interface needs to be designed with clean, simple layouts that allow users to easily navigate through the application. In order to make it easier for users to find the hospital they are looking for, we will provide filter options along with a search bar. We want to make the user experience as user-friendly as possible. To achieve this, every user will be required to create an account before booking appointments with a doctor in a particular hospital. This will allow users to easily manage their appointments and receive reminders. Once our application gains a good amount of views, we plan to include user reviews and feedback. This will help us improve the application and provide better service to our users.

Our web application utilizes PHP as the backend programming language to manage and store information such as user data, doctor's details, hospital records, and appointment schedules. PHP is a server-side scripting language that operates on the web server and generates dynamic content prior to sending it to the user's browser. This versatile language enables seamless interaction with various databases, including Oracle, MySQL, PostgreSQL, and others. It empowers the administrator to read, insert, update, and delete data from databases, thereby creating dynamic web pages, forms, and reports that are essential for the efficient functioning of our platform.

4.3 Doctors-

Doctors are provided with an account through a web application by submitting their personal information such as their name, qualifications, and area of specialization. Upon successful registration, doctors now have the ability to log in using a unique username and password. Once logged in, they can easily view their scheduled appointments as well as upcoming appointments. In addition, doctors can accept appointment requests from patients if their availability permits, and can also upload their prescribed medications to the platform.

4.4 Patients-

To start using our platform, patients need to create an account by providing some basic information such as their name, email address, age, and a secure password. Once they have logged in, they can easily book appointments with their preferred doctor and manage their appointments through our user-friendly interface. Patients have the convenience of accessing their complete medical history, which includes all the details about the medications prescribed by their doctor after consultation. This feature helps patients to gain a better understanding of their health and enables them to manage their health conditions more effectively.

4.5 Admin-

In medical settings, an admin plays a critical role as a mediator between the healthcare providers and patients. They are responsible for managing the appointments, ensuring that the patients receive the care they need while taking into account the doctors' availability. The admin acts as a bridge between the two parties, approving or declining the appointments based on the doctors' schedules and expertise so that patients can receive quality healthcare services.

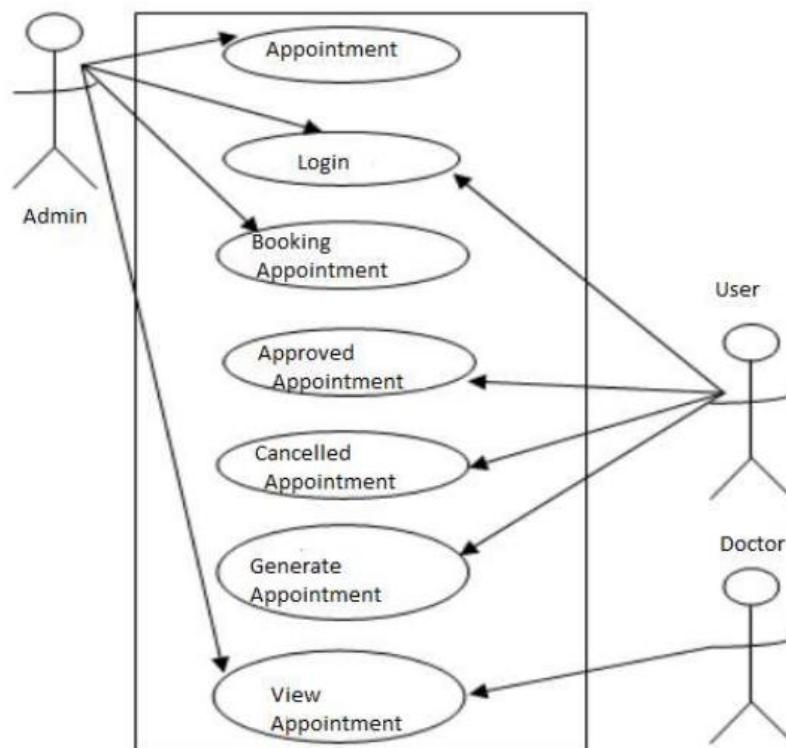


Fig 4.2 ARCHITECTURE

CHAPTER-5

OBJECTIVES

- 5.1** The application is designed to offer users comprehensive information about medical practitioners and healthcare facilities, presenting in-depth profiles that include their websites, physical addresses, and contact details. This highly effective tool helps patients quickly locate the nearest hospital with the medical specialist they require, ensuring they receive prompt and efficient medical treatment.
- 5.2** Our healthcare communication system aims to provide seamless and efficient communication between patients, doctors, and other stakeholders. This helps to ensure that healthcare services are delivered in a timely and effective manner. Our system allows patients to easily communicate with their doctors, schedule appointments, receive test results, and access other relevant health information. It also enables doctors and other healthcare professionals to collaborate more effectively, share patient information securely, and make better-informed decisions about patient care. We believe that our system can greatly improve the quality of healthcare services and delivery, and we are committed to making it accessible to as many people as possible.
- 5.3** To establish a comprehensive framework that will facilitate the provision of healthcare services to a larger number of citizens, regardless of their location or financial status. This framework will incorporate various initiatives and strategies, including the use of advanced technologies, to ensure that healthcare services are accessible, affordable, and of high quality. The goal is to improve the overall health and well-being of the population, by making healthcare services more readily available and responsive to the needs of the people.
- 5.4** Our goal is to develop a mobile platform that is designed to deliver a wide range of services that are both cost-effective and meet certain pre-established standards of quality. Our platform will be equipped with advanced features and functionalities that will enable users to access a variety of services on the go, such as transportation, food delivery, healthcare, education, and much more. Our team is dedicated to ensuring that the platform is user-friendly, secure, and reliable and that it meets the evolving needs of our users. We are committed to providing a seamless and hassle-free experience to our users, and we strive to exceed their expectations with every interaction.
- 5.5** To develop a software application that can be utilized effortlessly by its users without requiring them to acquire any new skills or knowledge. The aim is to make the interface inherently intuitive and user-friendly so that users can navigate through the application seamlessly. The end goal is to provide a seamless user experience that is both accessible and functional without any additional training or education.

CHAPTER-6

SYSTEM DESIGN & IMPLEMENTATION

Project Module:

We use PHP and a SQL Server database in the project module to manage website details. The project is composed of three modules:

6.1 Admin:

- 6.1.1** Dashboard: The administrator of the system can access and monitor the overall count of patients registered, doctors available, appointments that have already been scheduled, as well as all the upcoming appointments until the end of this week.
- 6.1.2** Doctor: Within this tab, there exists a comprehensive list of doctors along with their respective details. Administrator hold the power to not only view this information but also edit or remove any details as needed for the web application.
- 6.1.3** Patients: Here is, a list of patients with their details. However, it is important to note that the administrator's access is limited to viewing the information of each patient. The system does not allow for any editing or removal of any of the details associated with each patient.
- 6.1.4** Schedule: On this tab, the administrator can have an overview of all the sessions that are scheduled for a week. Moreover, they can check how many appointments can be taken by a doctor in a day. The admin can view all the patients who have scheduled an appointment and can also cancel any session if deemed necessary.
- 6.1.5** Search: Admin has the option to easily search for appointments or sessions by specifying the date and the name of the doctor. This feature enables users to quickly locate and access the desired appointments or sessions, based on their preferences and requirements.
- 6.1.6** Appointments: Within this section, individuals can access and review comprehensive information regarding their scheduled appointments. This includes pertinent details such as the name of the patient, the name of the doctor they are scheduled to meet with, as well as the date and time of their consultation. Additionally, if necessary, they have the option to cancel the scheduled appointment.

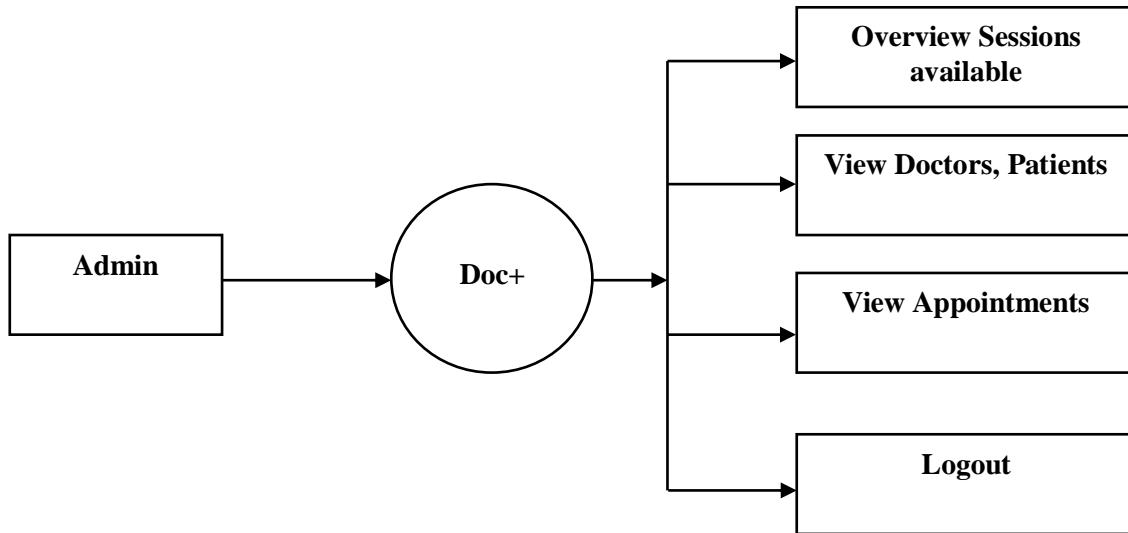


Fig 6.1 Admin Activity Data Flow Diagram

6.2 Doctor:

- 6.2.1** Dashboard: The doctor can easily access various information such as the number of sessions, newly scheduled appointments, as well as those that have been cancelled.
- 6.2.2** Appointment: Within this section of the system, medical professionals are able to access and review their upcoming appointments. Additionally, they are provided with the capability to modify or remove a scheduled appointment, if required.
- 6.2.3** Settings: They can modify and refresh their profile information by making edits or updates to them.
- 6.2.4** Search: To find available appointments in a specific area, a doctor can search using the user's appointment name or mobile phone number. Additionally, the doctor can filter the search results based on the desired date to view appointments that fit their schedule.
- 6.2.5** Sessions: They can view the daily schedule of available sessions for booking appointments. This allows you to easily see the number of sessions that have been scheduled and the time slots that are open for you to book an appointment.
- 6.2.6** My Patients: By accessing this feature, healthcare professionals can easily retrieve and review all relevant information about their patients who have sought medical advice from them. It enables a comprehensive view of their patient's medical history, diagnoses, medications, and treatment plans, allowing them to provide more informed and personalized care.

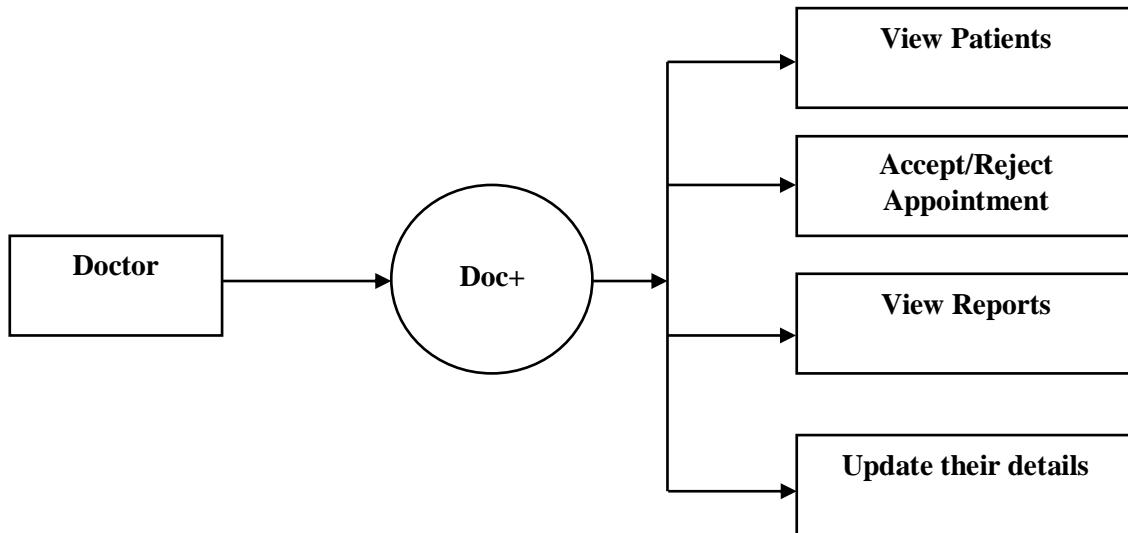


Fig 6.2 Doctor Activity Data Flow Diagram

6.3 Patient/User:

- 6.3.1** Home: On this tab, users will have the ability to preview their scheduled sessions for the upcoming days as well as the sessions that are scheduled for today. This feature allows them to stay on top of their schedule and be prepared for their upcoming engagements.
- 6.3.2** Doctors: The users get a comprehensive list of available doctors, along with their respective email IDs, mobile numbers, areas of specialization, and the sessions available for scheduling an appointment. This information enables users to make informed decisions while choosing the right doctor for their healthcare needs.
- 6.3.3** Sessions: Patients can book appointments through this platform, where they can access a variety of available sessions. This system provides a convenient and user-friendly way for patients to schedule their appointments, making the process quick and hassle-free.
- 6.3.4** My Bookings: This section will display a comprehensive list of all the bookings you have made in the past, along with the details of your upcoming bookings. You can easily keep track of your previous reservations and upcoming plans from this section.
- 6.3.5** Search: In this section, you can easily search for doctors by either their email address or their name. This feature allows you to quickly find the right doctor that you are looking for, making it easier for you to connect with them and seek the medical attention you need.
- 6.3.6** Settings: Users have the flexibility to modify and update their profile information as and when needed. They can easily make edits and refresh their profile details to keep it up-to-date.

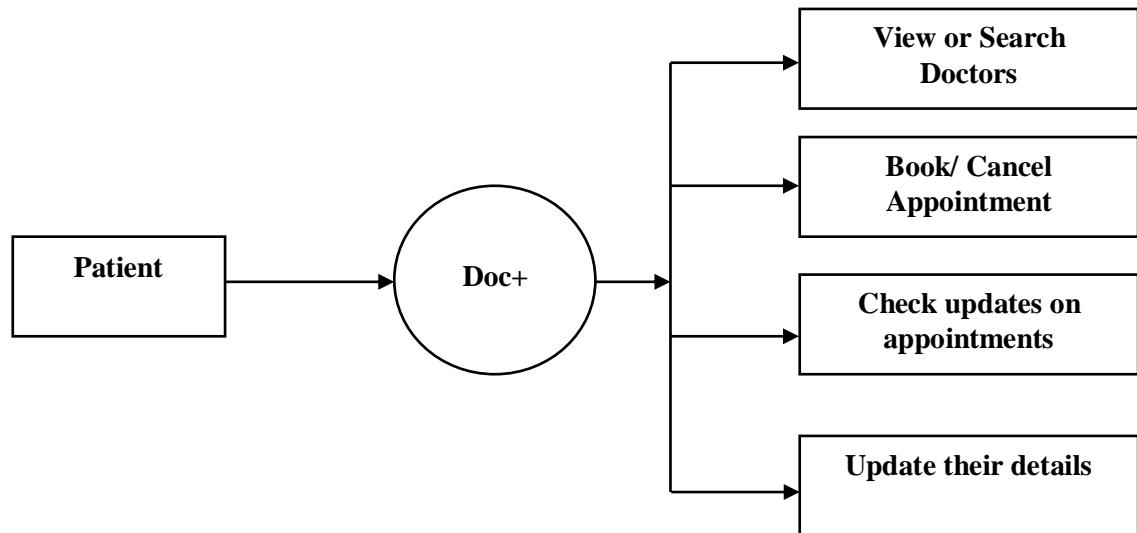


Fig 6.3 Patient Activity Data Flow Diagram

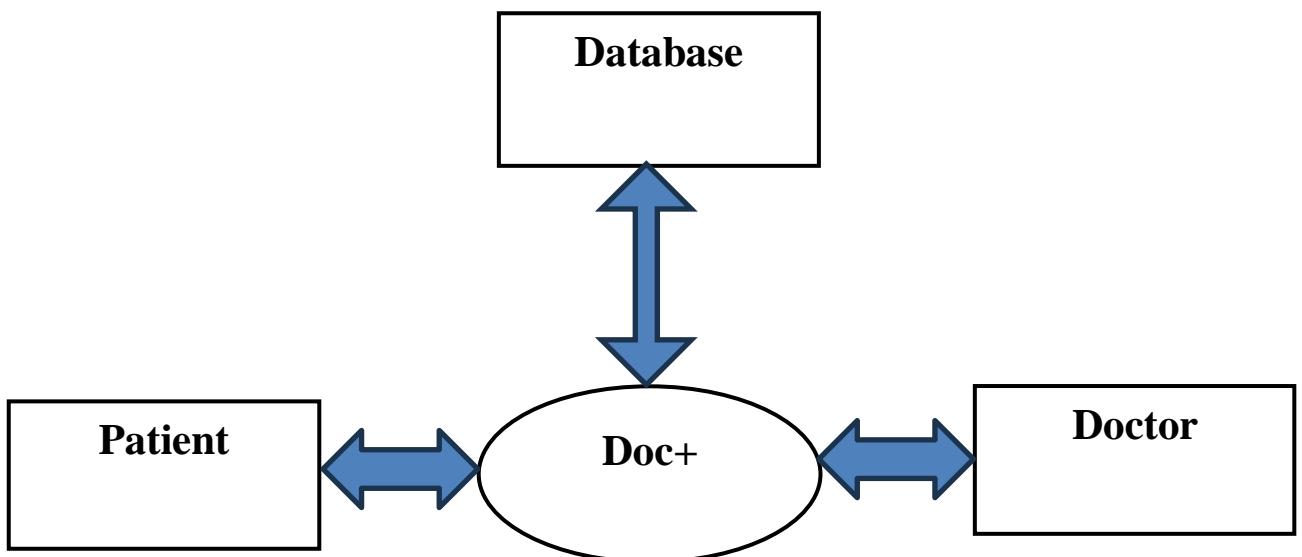


Fig 6.4 Context Level DFD of the System

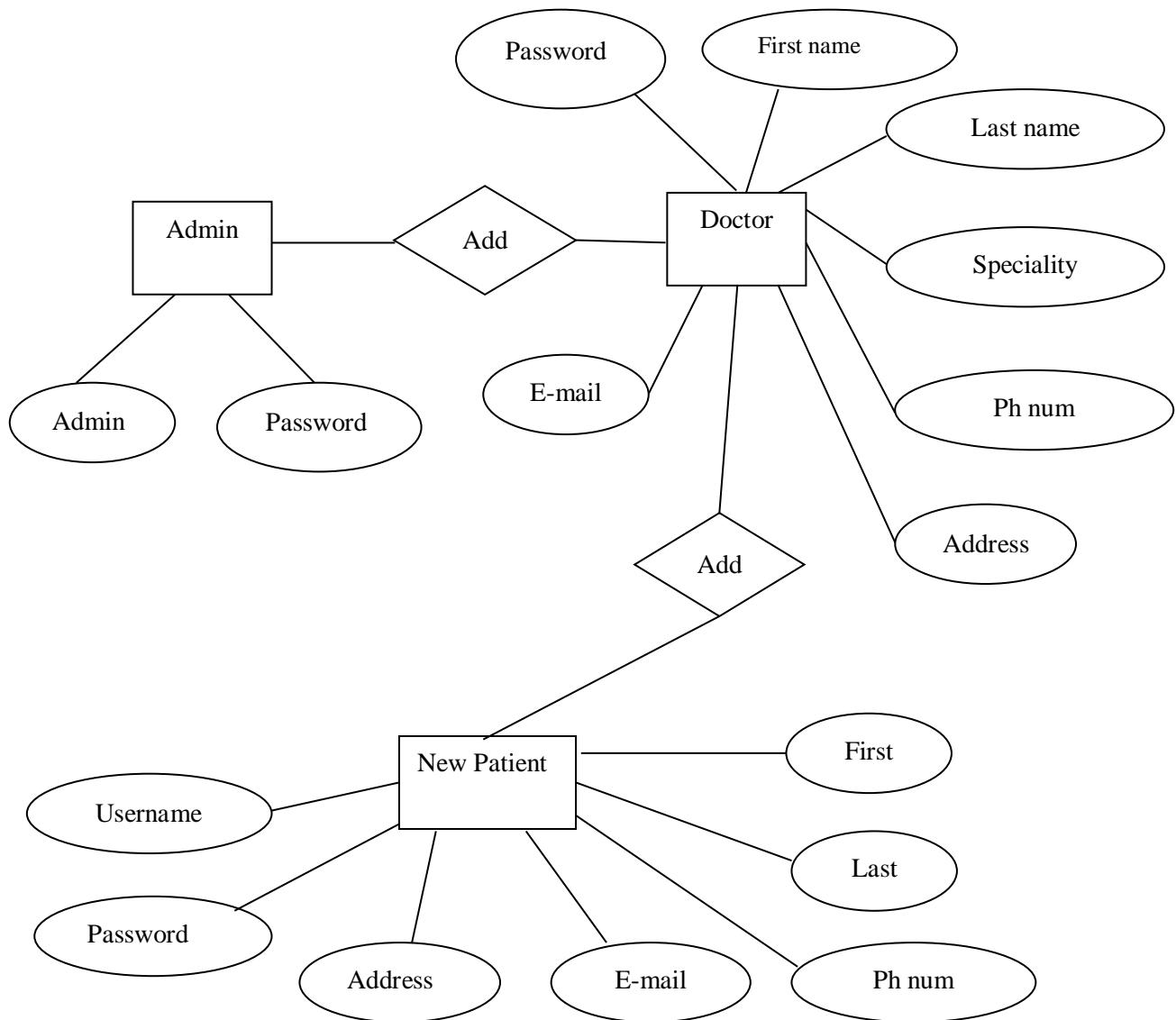


Fig 6.5 ER Diagram

Table 6.1 - Testing all Test Cases

TestCase Number	Testing Scenario	Expected result	Result
Registration Testing:			
TC – 01	Clicking submit without entering details	Alert "Please fill all details"	Pass
TC – 02	Clicking submit without entering first and last name	Alert "Please fill Username"	Pass
TC – 03	Clicking submit without entering address date of birth and date	Alert "Please fill Password"	Pass
TC – 04	Clicking submit without entering email id, phone number.	Alert "Please fill email id"	Pass
TC – 05	Clicking submit without entering passowrd.	Alert "Please fill contact number"	Pass
TC – 06	Clicking submit entering confirm password data which is not matching with password data	Alert "Password and Confirm Password do not match"	Pass
Login Testing:			
TC – 07	Clicking submit without entering login details	Alert "Please enter the username and password"	Pass
TC – 08	Clicking submit without entering password	Alert "Please enter the password"	Pass
TC – 10	Clicking submit entering wrong email	Alert "Invalid User"	Pass
TC – 11	Clicking submit entering wrong password	Alert "Invalid User"	Pass
In their Doctor/User account, Delete testing:			
TC-12	Clicking to delete account.	Alert "To confirm whether you want to delete account"	Pass
TC-13	Clicking cancel Appointment's	Alert "To confirm whether you want to delete the appointment"	Pass
TC-14	Clicking cancel session.	Alert "To confirm whether you want to delete the session"	Pass
In their Admin account, Delete testing:			
TC-15	Clicking remove doctor for the web application.	Alert "To confirm whether you want to delete the account of doctor/user"	Pass
TC-16	Clicking sessions/appointments remove	Alert "To confirm whether you want to delete the session/appointments"	Pass

CHAPTER-7

TIMELINE FOR EXECUTION OF PROJECT (GANTT CHART)

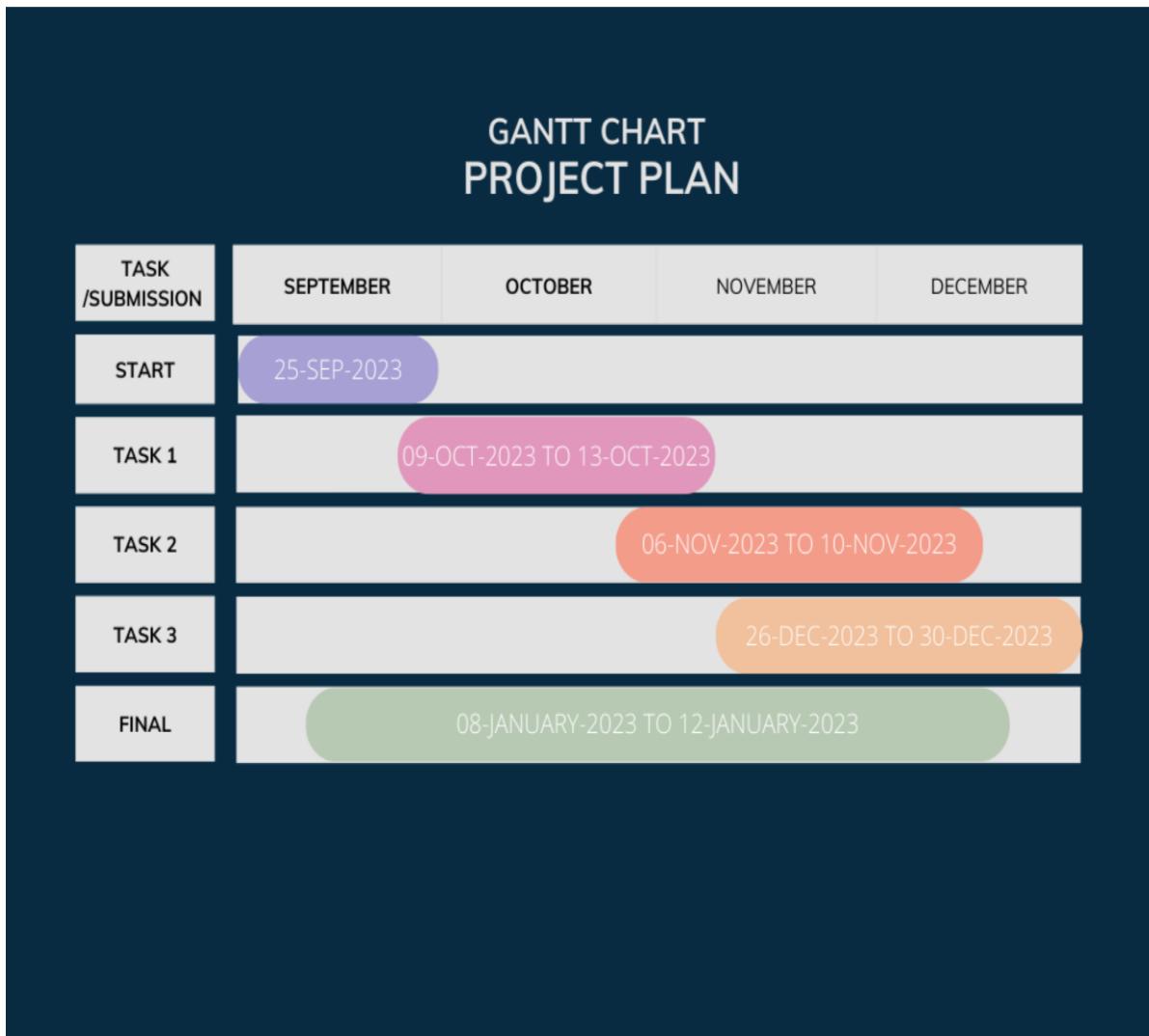


Fig 7.1 Timeline of the Project

CHAPTER-8

OUTCOMES

The application offers patients a huge number of benefits, which can significantly enhance their healthcare experience. Firstly, it provides patients with an easy and convenient platform to search for healthcare facilities and book appointments online, which can save them a considerable amount of time and reduce waiting times. Moreover, the application enables patients to choose the right specialist based on their medical condition, ensuring that they receive the most appropriate care and treatment. This feature can be particularly useful for patients with complex health conditions who require specialized care. Additionally, the application provides patients with valuable information about the medical specialities offered by different healthcare facilities, the qualifications of the physicians, and the availability of slots for appointments. This information can help patients make more informed decisions about their healthcare needs and ensure that they receive the best possible care. Overall, the application serves as a valuable tool for patients, empowering them to take control of their healthcare journey and make informed decisions about their health.

CHAPTER-9

RESULTS AND DISCUSSIONS

- 9.1** Patients can easily search for hospitals or doctors and book appointments online, saving time and reducing wait times.
- 9.2** This tool is designed to assist patients in identifying and selecting healthcare providers whose expertise and medical specialties align with their individual health needs. By using this tool, patients can easily schedule appointments with the most suitable doctor and receive the best possible medical care.
- 9.3** Once a patient books an appointment with a doctor, the appointment details - including the date and time - will be automatically added to both the patient and doctor's dashboard. This feature serves as a helpful reminder for both parties to ensure that they don't forget about the scheduled appointment. By having the appointment information readily available in their respective dashboards, they can easily check the date and time without having to search through their emails or notes.
- 9.4** After implementing the above-mentioned feature, we can take things up a notch by setting up SMS notifications. With this improvement, the system will automatically send reminders to users via SMS one day before and one hour before the scheduled appointment. This will help users stay on top of their schedules and ensure that they never miss an important meeting or event.
- 9.5** Further, we can also add for patients to provide reviews on doctors or medical facilities . These reviews can offer valuable insights into the quality of care, the expertise of the doctors, and the overall patient experience. By taking into account the opinions and experiences of others, patients can make more informed decisions about their healthcare choices.
- 9.6** Also, we can add online payment methods for appointment bookings or medical services without having to wait in long queues at the hospital reception to clear their bills. This feature will be designed to provide a hassle-free experience for patients, allowing them to focus on their recovery instead of being burdened with administrative tasks. Whether you need to pay for a consultation, medication, or any other medical facility, you can do so with just a few clicks.

CHAPTER-10

CONCLUSION

Our web application has been meticulously crafted to provide users with a comprehensive and detailed overview of hospitals in their city. Our goal is to empower patients seeking healthcare services, especially those in areas with limited resources, by equipping them with relevant and up-to-date information about nearby healthcare facilities. Our application simplifies the process of finding out about the specialities, locations, and other critical details of hospitals, thereby enabling users to make informed decisions about their healthcare needs. We firmly believe that by reducing wait times and enhancing the overall utilization of healthcare services, our application can make a significant difference in the lives of patients and their families.

During the development of this application, we encountered a significant challenge in obtaining precise and real-time data from the hospital's database regarding the medical services they provide. To overcome this hurdle, we collaborated with hospital staff to ensure that we have access to the most accurate information on their services, including details on doctors, beds, and treatments. Additionally, we ensured that the data is continuously updated to provide users or patients with the most current information. To accomplish this, we developed an efficient system that automatically updates the data as soon as it is available in the hospital's database. This enables users/patients to access the most precise information, such as the availability of doctors, beds, and treatments, even before going to the hospital. Overall, we recognize the importance of providing accurate and real-time information to users/patients, and we work tirelessly to ensure that the application has up-to-date data.

During our research, we found that crucial information regarding directions to hospitals is often missing when searching for hospital-related information. This can lead to confusion and delays in emergency situations. Our web application serves as a valuable solution to this problem by providing comprehensive information about hospitals, including directions, making it a valuable tool to have in times of need, especially in this digital age.

REFERENCES

- [1] International Journal of Scientific and Research Publications, Volume X, Issue X, Month 2018 Online Appointment System, Venkatesh Rallapalli, Dipti Menghani, Hema Gallani, Gaytri Aasija Dr. Dashrath Mane.
- [2] A Doctor Appointment Booking System,D. Bharadwaja, Ch. Bhavya Sri, G. Aswani, G. Sushma, Ch. Prabhu Kiran.
- [3] ANDROID-BASED HOSPITAL FINDER APPLICATION USING GLOBAL POSITIONING SYSTEM(GPS), Devayani.Ga, Hari Priya. R, Sruthi.S, C.Senthil Kumar,AssistantProfessor.
- [4] Implementation of Hospital-Finder,Shivam Bajpai, Tushar Modi, Vatsalya Vinay Sinha, Vidhi Jaiswal.
- [5] Android Application for Healthcare Dissemination Ajay Kumar G R, Akash Aman, Avinash Kumar, Harshith L.
- [6] Android Based Patient's Healthcare Management System, Sajeetha Thavareesan.
- [7] Domain-Specific Search of the Nearest Hospital and Healthcare Management System GANAPATHI SHANKAR , DR. D. SUBBA RAO.
- [8] Medilog – A Social Friendly Android Application for Maintaining Medical Logs And Locating Health Centres Bhuvaneswari A, Swathi N.
- [9] An Android based Application for Determine a Specialized Hospital Nearest to Patient's Location Muhammad Wasim Munir, Syed Muhammad Omair ,M. Zeeshan Ul Haque.
- [10] Hospital Finder by Android Software, Egbal Ahmed Hassan Ahmed, Prof. Dr. Dieter Fritsch.

APPENDIX-A

PSUEDOCODE

<!—Index.html File -->

HTML:

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/index.css"

Title: "eDoc"

Style:

table:

animation: transitionIn-Y-bottom 0.5s

Body:

Div class="full-height":

Center:

Table border="0":

Tr:

Td width="80%":

Font class="edoc-logo": "Doc+"

Font class="edoc-logo-sub": "| THE HEALING VIBES"

Td width="10%":

A href="login.php" class="non-style-link":

P class="nav-item": "LOGIN"

Td width="10%":

A href="signup.php" class="non-style-link":

P class="nav-item" style="padding-right: 10px;": "REGISTER"

Tr:

Td colspan="3":

P class="heading-text": "Avoid Hassles & Delays."

Tr:

Td colspan="3":

P class="sub-text2": "How is health today, Sounds like not good!
Don't worry. Find your doctor online Book as you wish with Doc+
We offer you a free doctor channeling service, Make your appointment now."

Tr:

Td colspan="3":

Center:

A href="login.php":

Input type="button" value="Make Appointment" class="login-btn btn-primary btn" style="padding-left: 25px;padding-right: 25px;padding-top: 10px;padding-bottom: 10px;"

Tr:

Td colspan="3":
P class="sub-text2 footer-hashen": "A Web Solution by UP-151."

<!—Login.php File -->

HTML:

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/login.css"

Title: "Login"

Body:

PHP:

Start session

Initialize session variables

Set timezone to 'Asia/Kolkata'

Include("connection.php")

If POST request:

Retrieve email and password from POST

Initialize error message

Query database for user with the given email

If user exists:

Check user type

If patient:

Query patient table for credentials

If credentials match:

Set session variables

Redirect to patient dashboard

Else:

Set error message

If admin:

Query admin table for credentials

If credentials match:

Set session variables

Redirect to admin dashboard

Else:

Set error message

If doctor:

Query doctor table for credentials

If credentials match:

Set session variables

Redirect to doctor dashboard

Else:

Set error message

```
Else:  
Set error message  
Center:  
Div class="container":  
Table border="0" style="margin: 0;padding: 0;width: 60%":  
Tr:  
Td:  
P class="header-text": "Welcome Back!"  
Div class="form-body":  
Tr:  
Td:  
P class="sub-text": "Login with your details to continue"  
Tr:  
Form action="" method="POST":  
Td class="label-td":  
Label for="useremail" class="form-label": "Email: "  
Td class="label-td":  
Input type="email" name="useremail" class="input-text" placeholder="Email Address"  
required  
Td class="label-td":  
Label for="userpassword" class="form-label": "Password: "  
Td class="label-td":  
Input type="password" name="userpassword" class="input-text" placeholder="Password"  
required  
Tr:  
Td:  
PHP echo $error  
Tr:  
Td:  
Input type="submit" value="Login" class="login-btn btn-primary btn"  
Tr:  
Td:  
Br  
Label for="" class="sub-text" style="font-weight: 280;": "Don't have an account? "  
A href="signup.php" class="hover-link1 non-style-link": "Sign Up"  
Br Br Br
```

<!—Signup.php File -->

```
HTML:  
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/signup.css"
```

Title: "Sign Up"
Body:
PHP:
Start session
Initialize session variables
Set timezone to 'Asia/Kolkata'
Check if POST request:
Set session variables with personal details
Print personal details
Redirect to "create-account.php"
Center:
Div class="container":
Table border="0":
Tr:
Td colspan="2":
P class="header-text": "Let's Get Started"
P class="sub-text": "Add Your Personal Details to Continue"
Tr:
Form action="" method="POST":
Td class="label-td" colspan="2":
Label for="name" class="form-label": "Name: "
Tr:
Td class="label-td":
Input type="text" name="fname" class="input-text" placeholder="First Name" required
Td class="label-td":
Input type="text" name="lname" class="input-text" placeholder="Last Name" required
Tr:
Td class="label-td" colspan="2":
Label for="address" class="form-label": "Address: "
Tr:
Td class="label-td" colspan="2":
Input type="text" name="address" class="input-text" placeholder="Address" required
Tr:
Td class="label-td" colspan="2":
Label for="nic" class="form-label": "NIC: "
Tr:
Td class="label-td" colspan="2":
Input type="text" name="nic" class="input-text" placeholder="NIC Number" required
Tr:
Td class="label-td" colspan="2":
Label for="dob" class="form-label": "Date of Birth: "
Tr:
Td class="label-td" colspan="2":
Input type="date" name="dob" class="input-text" required
Tr:
Td class="label-td" colspan="2":
Tr:
Td:

Input type="reset" value="Reset" class="login-btn btn-primary-soft btn"
 Td:
 Input type="submit" value="Next" class="login-btn btn-primary btn"
 Tr:
 Td colspan="2":
 Br
 Label for="" class="sub-text" style="font-weight: 280;": "Already have an account? "
 A href="login.php" class="hover-link1 non-style-link": "Login"
 Br Br Br

<!—PatientAppointment.php File -->

```

<?php
session_start();
if(!isset($_SESSION["user"]) || $_SESSION["user"] == "" || $_SESSION['usertype'] != 'p') {
header("location: ../login.php");
} else {
$useremail = $_SESSION["user"];
}
include("../connection.php");
$sqlmain = "SELECT * FROM patient WHERE pemail=?";
$stmt = $database->prepare($sqlmain);
$stmt->bind_param("s", $useremail);
$stmt->execute();
$userrow = $stmt->get_result()->fetch_assoc();
$userid = $userrow["pid"];
$username = $userrow["pname"];
$sqlmain = "SELECT appointment.appoid, schedule.scheduleid, schedule.title,
doctor.docname, patient.pname, schedule.scheduledate, schedule.scheduletime,
appointment.apponum, appointment.appodate FROM schedule INNER JOIN appointment
ON schedule.scheduleid = appointment.scheduleid INNERJOIN patient ON patient.pid =
appointment.pid INNER JOIN doctor ON schedule.docid = doctor.docid WHERE
patient.pid=$userid ";
if($_POST && !empty($_POST["sheduledate"])) {
$sheduledate = $_POST["sheduledate"];
$sqlmain .= " AND schedule.scheduledate='$sheduledate' ";
}
$sqlmain .= " ORDER BY appointment.appodate ASC";
$result = $database->query($sqlmain);
?>
<!DOCTYPE html>
<html lang="en">
<head>
<!-- Head section content -->
</head>
<body>
<!-- Body content -->
</body>
</html>

```

```
<!--DoctorAppointment.php File -->
<!DOCTYPE html>
<html lang="en">
<head>
<!-- Meta tags and stylesheets --&gt;
&lt;meta charset="UTF-8"&gt;
&lt;meta http-equiv="X-UA-Compatible" content="IE=edge"&gt;
&lt;meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;
&lt;link rel="stylesheet" href="../css/animations.css"&gt;
&lt;link rel="stylesheet" href="../css/main.css"&gt;
&lt;link rel="stylesheet" href="../css/admin.css"&gt;
&lt;title&gt;Appointments&lt;/title&gt;
&lt;style&gt;
.popup {
    animation: transitionIn-Y-bottom 0.5s;
}
.sub-table {
    animation: transitionIn-Y-bottom 0.5s;
}
/* Additional styles... */
&lt;/style&gt;
&lt;/head&gt;
&lt;body&gt;
&lt;?php
// PHP code for session handling and database connection
?&gt;
&lt;div class="container"&gt;
&lt;!-- Menu section --&gt;
&lt;?php
// PHP code for generating menu items
?&gt;
&lt;!-- Dashboard body --&gt;
&lt;div class="dash-body"&gt;
&lt;!-- Main content --&gt;
&lt;table border="0" width="100%" style="border-spacing: 0; margin: 0; padding: 0; margin-top: 25px;"&gt;
&lt;!-- Content rows and columns --&gt;
&lt;?php
// PHP code for generating dynamic content
?&gt;
&lt;/table&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;?php
// PHP code for handling additional actions based on GET parameters
?&gt;</pre>
```

```

</body>
</html>
<!--Patient'sDoctor.php File -->
<!DOCTYPE html>
<html lang="en">
<head>
<!-- Head content, including stylesheets -->
</head>
<body>
<?php
// PHP code for user authentication and database connection
?>
<div class="container">
<!-- Main container for the page -->
<div class="menu">
<!-- Navigation menu -->
</div>
<div class="dash-body">
<!-- Main content body -->
<?php
// PHP code for fetching and displaying doctor details
?>
<table>
<!-- HTML table for displaying doctors -->
<thead>
<!-- Table header -->
</thead>
<tbody>
<?php
// PHP code for populating the table with doctor details
?>
</tbody>
</table>
</div>
</div>
<?php
// PHP code for handling pop-up actions (if any)
?>
</body>
</html>

```

<!--Doctor'sPatient.php File -->

```

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

```

```

$useremail = $_SESSION["user"];
}
include("../connection.php");
$userrow = $database->query("select * from doctor where docemail='$useremail'");
$userfetch = $userrow->fetch_assoc();
$userid = $userfetch["docid"];
$username = $userfetch["docname"];
$selecttype = "My";
$current = "My patients Only";
if ($_POST) {
if (isset($_POST["search"])) {
$keyword = $_POST["search12"];
$sqlmain = "select * from patient where pemail='$keyword' or pname='$keyword' or pname
like '$keyword%' or pname like '%$keyword' or pname like '%$keyword%'";
$selecttype = "my";
}
if (isset($_POST["filter"])) {
if ($_POST["showonly"] == 'all') {
$sqlmain = "select * from patient";
$selecttype = "All";
$current = "All patients";
} else {
$sqlmain = "select * from appointment inner join patient on patient.pid=appointment.pid
inner join schedule on schedule.scheduleid=appointment.scheduleid where
schedule.docid=$userid;";
$selecttype = "My";
$current = "My patients Only";
}
}
}
} else {
$sqlmain = "select * from appointment inner join patient on patient.pid=appointment.pid
inner join schedule on schedule.scheduleid=appointment.scheduleid where
schedule.docid=$userid;";
$selecttype = "My";
}

?>
<!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>Patients</title>
<style>
```

```
/* Add your styles here */</style></head><body>
<div class="container">
<!-- Your HTML content here -->
</div>
<?php
if ($_GET) {
$id = $_GET["id"];
$action = $_GET["action"];
$sqlmain = "select * from patient where pid='$id'";
$result = $database->query($sqlmain);
$row = $result->fetch_assoc();
$name = $row["pname"];
$email = $row["pemail"];
$nic = $row["pnic"];
$dob = $row["pdob"];
$tele = $row["ptel"];
$address = $row["paddress"];
echo '
<!-- Your popup HTML content here -->
';
}
?>
</body>
</html>
```

<!--Database File -->

```
-- Create Database
CREATE DATABASE IF NOT EXISTS `edoc`;
-- Use Database
USE `edoc`;
-- Table admin
CREATE TABLE IF NOT EXISTS `admin` (
`aemail` VARCHAR(255) NOT NULL,
`apassword` VARCHAR(255) DEFAULT NULL,
PRIMARY KEY (`aemail`)
);
-- Insert data into admin table
INSERT INTO `admin` (`aemail`, `apassword`) VALUES
('admin@edoc.com', '123');
-- Table appointment
CREATE TABLE IF NOT EXISTS `appointment` (
`appoid` INT(11) NOT NULL AUTO_INCREMENT,
`pid` INT(10) DEFAULT NULL,
`apponum` INT(3) DEFAULT NULL,
`scheduleid` INT(10) DEFAULT NULL,
`appodate` DATE DEFAULT NULL,
PRIMARY KEY (`appoid`),
KEY `pid` (`pid`),
```

```

KEY `scheduleid` (`scheduleid`)
);
-- Insert data into appointment table
INSERT INTO `appointment` (`appoid`, `pid`, `apponum`, `scheduleid`, `appodate`)
VALUES
(1, 1, 1, 1, '2023-11-30'),
(2, 2, 2, 2, '2023-12-09');

-- Table doctor
CREATE TABLE IF NOT EXISTS `doctor` (
`docid` INT(11) NOT NULL AUTO_INCREMENT,
`docemail` VARCHAR(255) DEFAULT NULL,
`docname` VARCHAR(255) DEFAULT NULL,
`docpassword` VARCHAR(255) DEFAULT NULL,
`docnic` VARCHAR(15) DEFAULT NULL,
`doctel` VARCHAR(15) DEFAULT NULL,
`specialties` INT(2) DEFAULT NULL,
PRIMARY KEY (`docid`),
KEY `specialties` (`specialties`)
);
-- Insert data into doctor table
INSERT INTO `doctor` (`docid`, `docemail`, `docname`, `docpassword`, `docnic`, `doctel`,
`specialties`) VALUES
(1, 'geetha@gmail.com', 'Geetha', '123', '35', '0110000000', 5),
(2, 'tanuja@gmail.com', 'Tanuja', '123', '36', '0123456789', 1),
(3, 'sirisha@gmail.com', 'Sirisha', '123', '36', '0987654321', 20);

-- Table patient
CREATE TABLE IF NOT EXISTS `patient` (
`pid` INT(11) NOT NULL AUTO_INCREMENT,
`pemail` VARCHAR(255) DEFAULT NULL,
`pname` VARCHAR(255) DEFAULT NULL,
`ppassword` VARCHAR(255) DEFAULT NULL,
`paddress` VARCHAR(255) DEFAULT NULL,
`pnic` VARCHAR(15) DEFAULT NULL,
`pdob` DATE DEFAULT NULL,
`ptel` VARCHAR(15) DEFAULT NULL,
PRIMARY KEY (`pid`)
);
-- Insert data into patient table
INSERT INTO `patient` (`pid`, `pemail`, `pname`, `ppassword`, `paddress`, `pnic`, `pdob`,
`ptel`) VALUES
(1, 'harshitha@gmail.com', 'Harshitha Gowda R', '123', 'Bengaluru', '21', '2002-09-11',
'0123456789'),
(2, 'sathwik@gmail.com', 'Sathwik Reddy', '123', 'Kadapa', '21', '2002-05-09', '0789654321'),
(3, 'vinisha@gmail.com', 'Vinisha S', '123', 'Bengaluru', '21', '2002-05-02', '0987654321'),
(4, 'saivikas@gmail.com', 'Sai Vikas G', '123', 'Andhra', '20', '2003-03-23', '0678954321');

-- Table schedule
CREATE TABLE IF NOT EXISTS `schedule` (

```

```

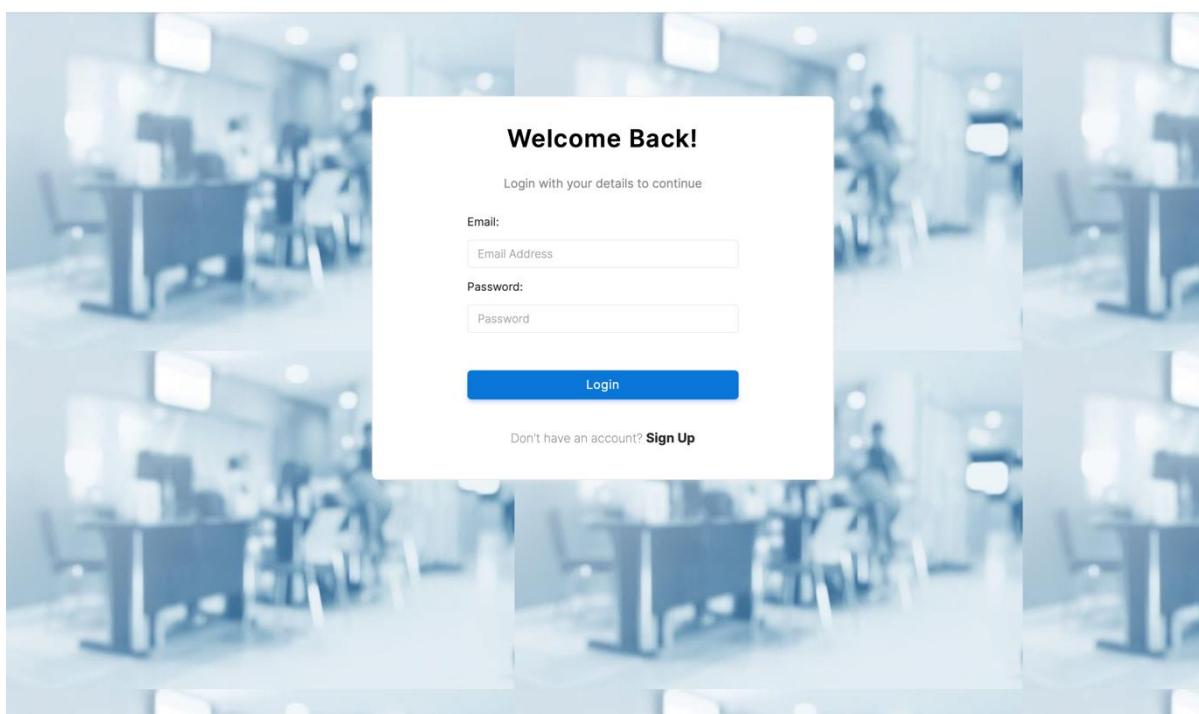
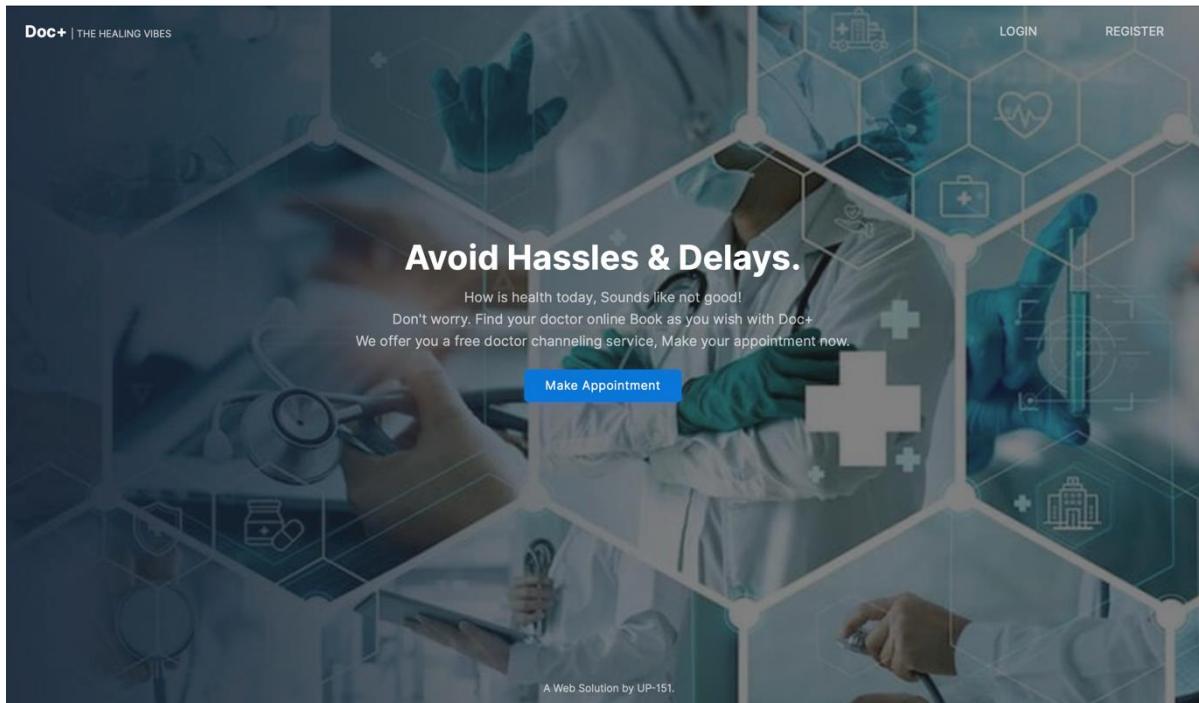
`scheduleid` INT(11) NOT NULL AUTO_INCREMENT,
`docid` VARCHAR(255) DEFAULT NULL,
`title` VARCHAR(255) DEFAULT NULL,
`scheduledate` DATE DEFAULT NULL,
`scheduletime` TIME DEFAULT NULL,
`nop` INT(4) DEFAULT NULL,
PRIMARY KEY (`scheduleid`),
KEY `docid` (`docid`)
);
-- Insert data into schedule table
INSERT INTO `schedule` (`scheduleid`, `docid`, `title`, `scheduledate`, `scheduletime`,
`nop`) VALUES
(1, '1', 'Test Session', '2023-12-30', '18:00:00', 2),
(2, '1', 'General Checkup', '2023-12-30', '18:20:00', 2),
(3, '2', 'General Checkup', '2023-12-30', '18:33:00', 1),
(4, '2', 'Checkup', '2023-12-31', '18:40:00', 5),
(5, '3', 'Checkup', '2023-12-31', '20:45:00', 2);
-- Table specialties
CREATE TABLE IF NOT EXISTS `specialties` (
`id` INT(2) NOT NULL,
`sname` VARCHAR(50) DEFAULT NULL,
PRIMARY KEY (`id`)
);
-- Insert data into specialties table
INSERT INTO `specialties` (`id`, `sname`) VALUES
(1, 'Ayurvedic'),
(2, 'Accident and emergency medicine'),
-- ... (remaining specialties)
-- Table webuser
CREATE TABLE IF NOT EXISTS `webuser` (
`email` VARCHAR(255) NOT NULL,
`usertype` CHAR(1) DEFAULT NULL,
PRIMARY KEY (`email`)
);
-- Insert data into webuser table
INSERT INTO `webuser` (`email`, `usertype`) VALUES
('admin@edoc.com', 'a'),
('geetha@gmail.com', 'd'),
('tanuja@gmail.com', 'd'),
('sirisha@gmail.com', 'd'),
('harshitha@gmail.com', 'p'),
('vinisha@gmail.com', 'p'),
('sathwik@gmail.com', 'p'),
('saivikas@gmail.com', 'p');

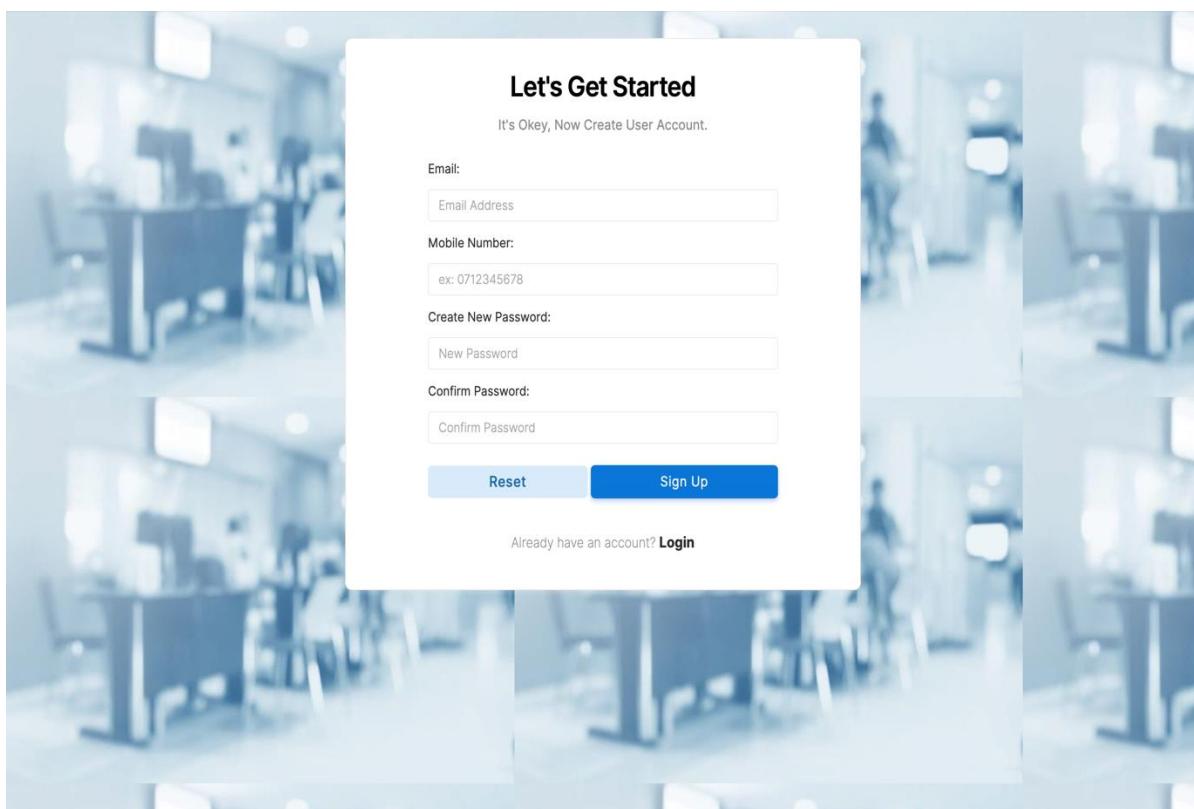
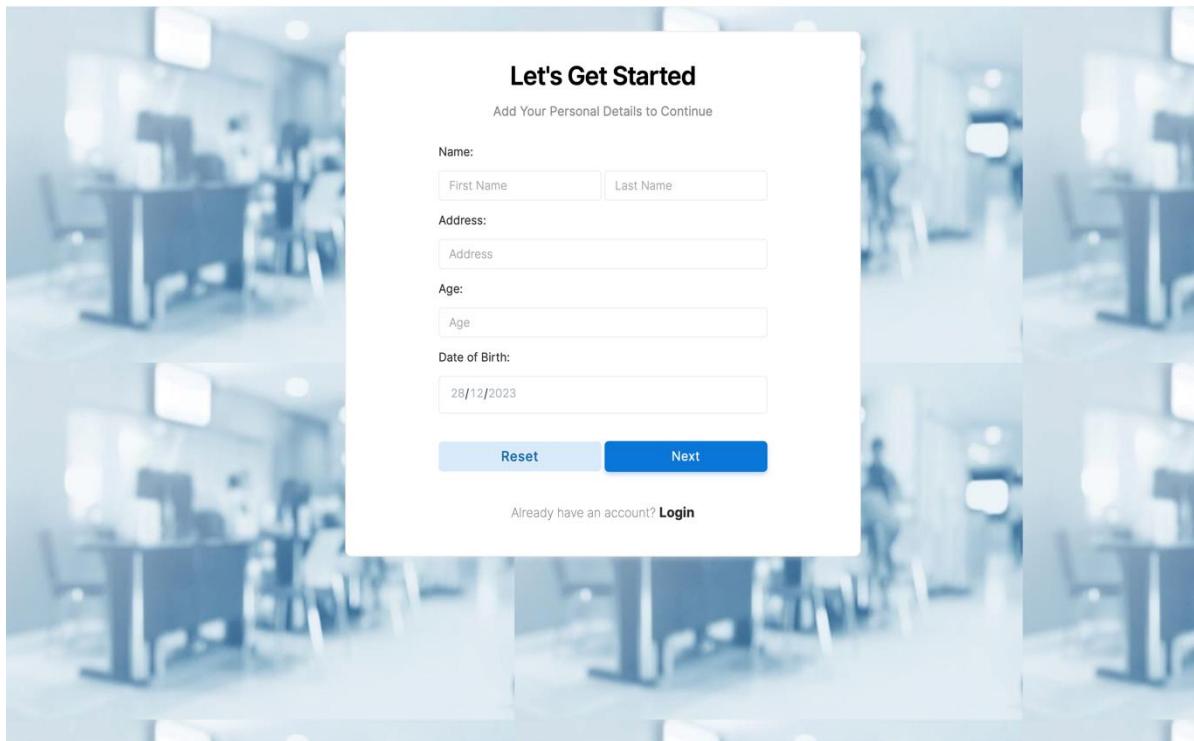
```

APPENDIX-B

SCREENSHOTS

SCREENSHOTS







Harshitha Gow..
harshitha@gmail.com

[Log out](#)

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

Home

Today's Date
04-01-24

Welcome!

Harshitha Gowda R.

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

Search

Status

3 All Doctors		4 All Patients	
2 NewBooking		0 Today Sessions	

Your Upcoming Booking

Appoint. Number	Session Title	Doctor	Scheduled Date & Time
1	Test Session	Geetha	2023-12-30 18:00



Harshitha Gow..
harshitha@gmail.com

[Log out](#)

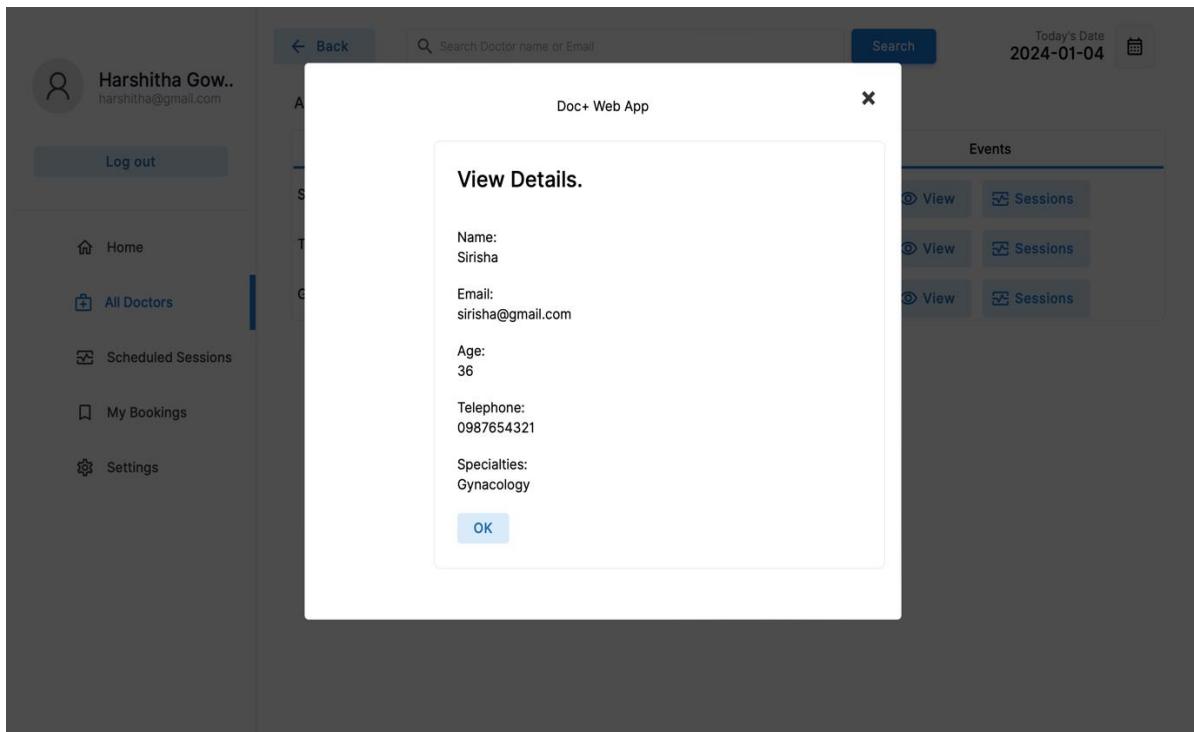
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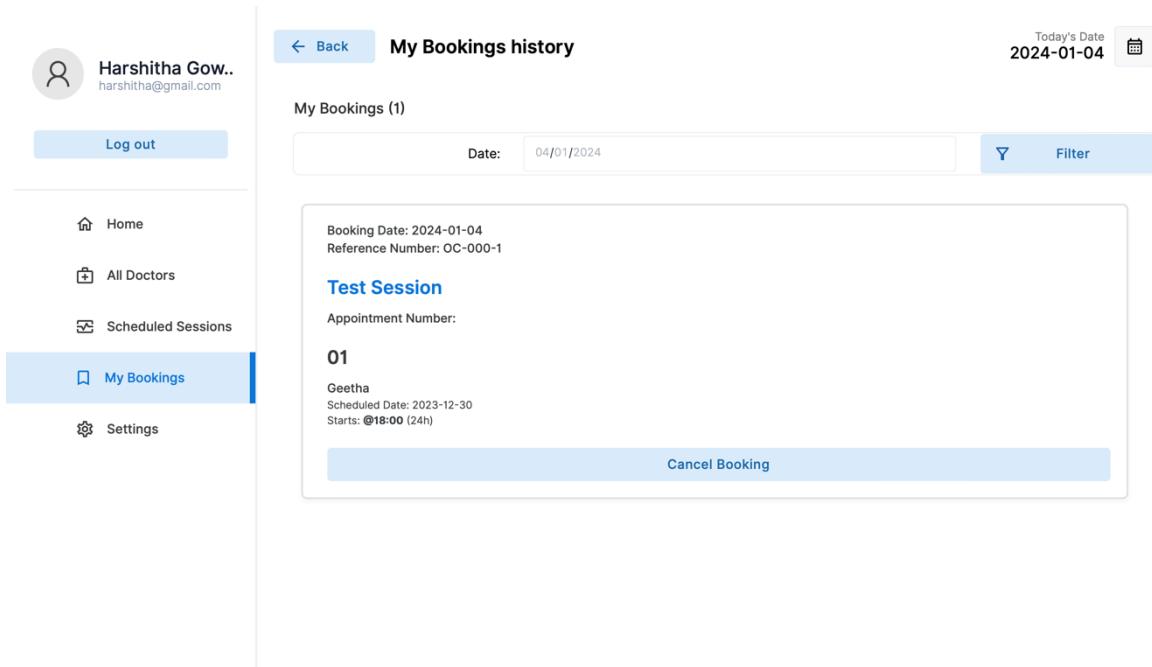
Search
Today's Date
2024-01-04

All Doctors (3)

Doctor Name	Email	Specialties	Events
Sirisha	sirisha@gmail.com	Gynacology	View Sessions
Tanuja	tanuja@gmail.com	Ayurvedic	View Sessions
Geetha	geetha@gmail.com	Cardiology	View Sessions



X





Geetha..
geetha@gmail.com

[Log out](#)

- [Dashboard](#)
- [My Appointments](#)
- [My Sessions](#)
- [My Patients](#)
- [Settings](#)

Dashboard

Welcome!

Geetha.

Thanks for joining 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](#)

3
All Doctors



4
All Patients



2
NewBooking



0
Today Sessions



Your Up Coming Sessions until Next week

Session Title	Scheduled Date	Time
 We couldnt find anything related to your		



Geetha..
geetha@gmail.com

[Log out](#)

- [Dashboard](#)
- [My Appointments](#)
- [My Sessions](#)
- [My Patients](#)
- [Settings](#)

[← Back](#) **Appointment Manager**

Today's Date
2024-01-04 

My Appointments (2)

Patient name	Appointment number	Session Title	Session Date & Time	Appointment Date	Events
Harshitha Gowda R	1	Test Session	2023-12-30 @18:00	2024-01-04	 Cancel
Sathwik Reddy	2	General Checkup	2023-12-30 @18:20	2024-01-05	 Cancel



Geetha..
geetha@gmail.com

[Log out](#)

- [Dashboard](#)
- [My Appointments](#)
- [My Sessions](#)
- [My Patients](#)
- [Settings](#)

My Sessions

My Sessions (2)

Session Title	Scheduled Date & Time	Max num that can be booked	Events
Test Session	2023-12-30 18:00	2	 View Cancel Session
General Checkup	2023-12-30 18:20	2	 View Cancel Session



Geetha..
geetha@gmail.com

[Log out](#)

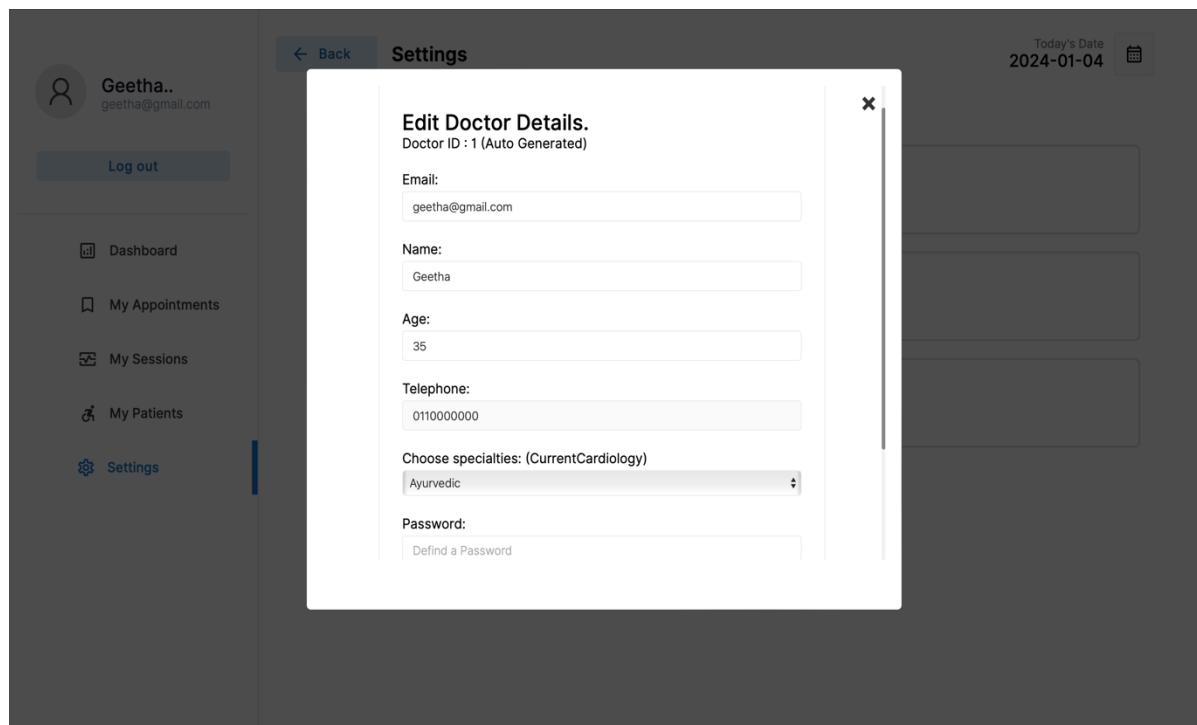
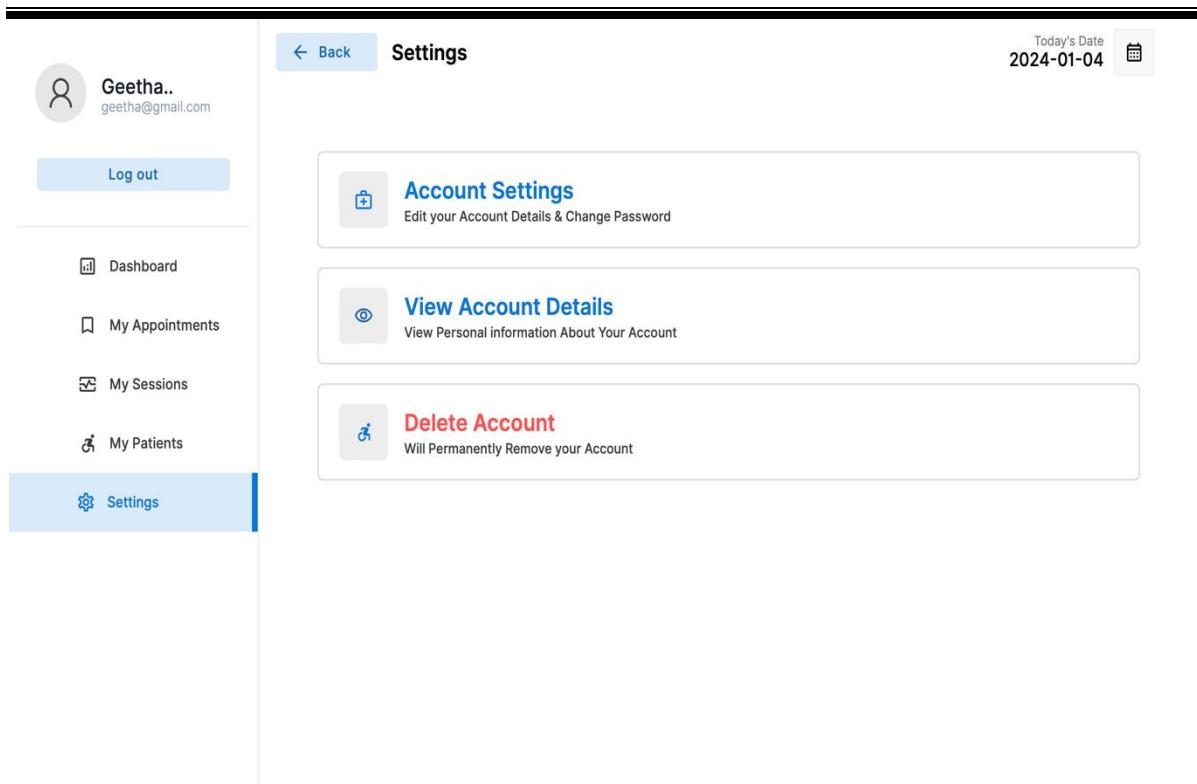
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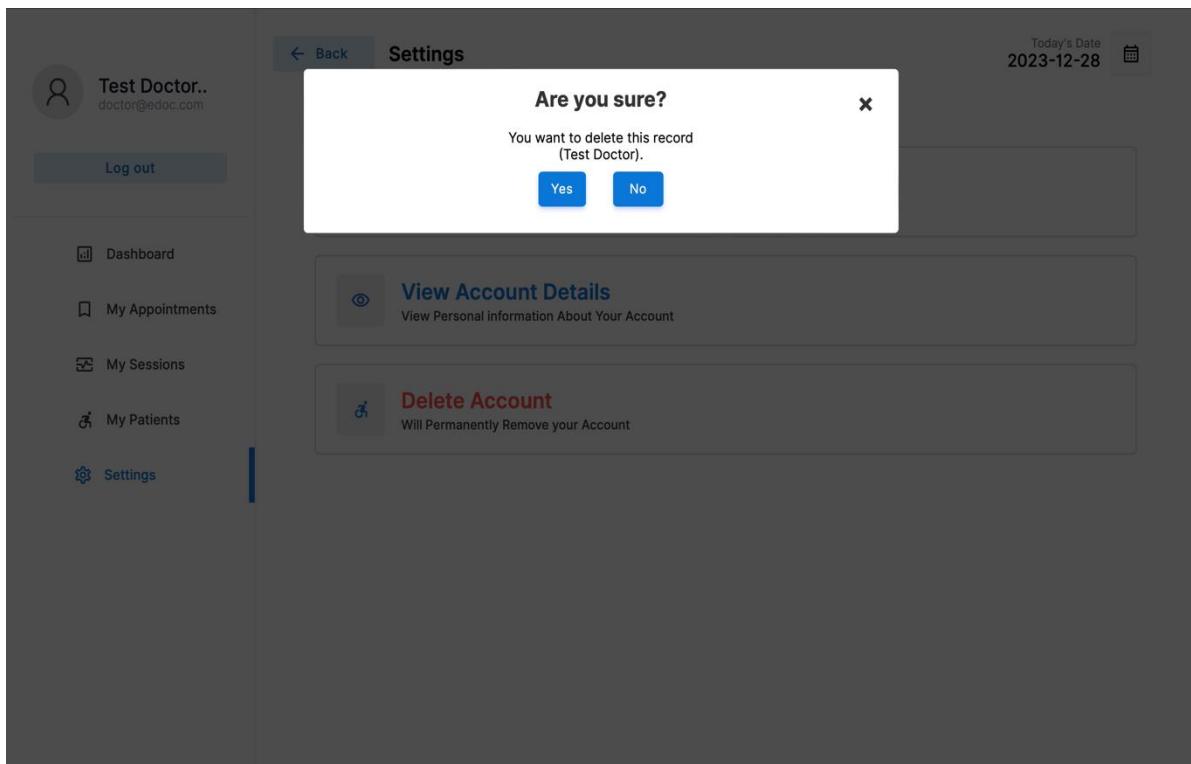
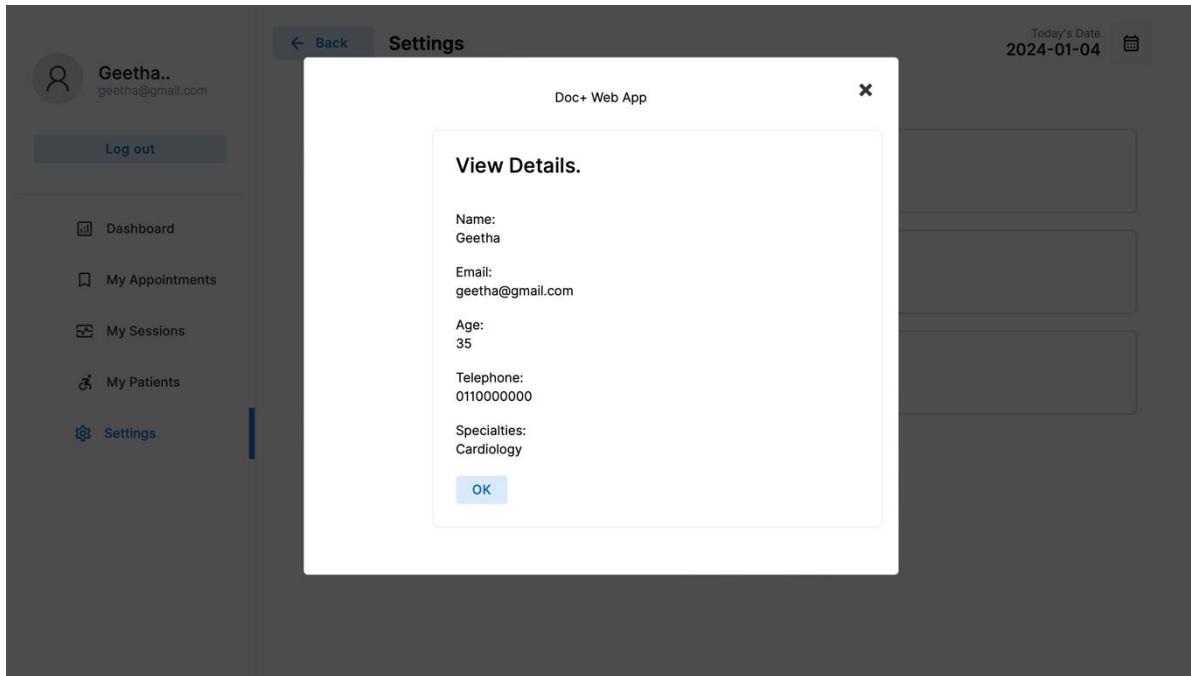
Today's Date
2024-01-04

My Patients

My Patients (2)

Show Details About : My patients Only						Filter
Name	Age	Telephone	Email	Date of Birth	Events	
Harshitha Gowda R	21	0123456789	harshitha@gmail.com	2002-09-11		 View
Sathwik Reddy	21	0789654321	sathwik@gmail.com	2002-05-09		 View





Administrator
admin@edoc.com

[Log out](#)

Dashboard

Doctors

Schedule

Appointment

Patients

Search

Today's Date
2024-01-04

Status

3
Doctors

4
Patients

2
NewBooking

0
Today Sessions

Upcoming Appointments until Next Thursday

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

Appointment number	Patient name	Doctor	Session

Show all Appointments

Upcoming Sessions until Next Thursday

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

Show all Sessions

Administrator
admin@edoc.com

[Log out](#)

Dashboard

Doctors

Schedule

Appointment

Patients

[Back](#)

Search

Today's Date
2024-01-04

Add New Doctor

[+ Add New](#)

All Doctors (3)

Doctor Name	Email	Specialties	Events
Sirisha	sirisha@gmail.com	Gynacology	Edit View Remove
Tanuja	tanuja@gmail.com	Ayurvedic	Edit View Remove
Geetha	geetha@gmail.com	Cardiology	Edit View Remove

School of Computer Science and Engineering, Presidency University.

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The screenshot shows the 'Schedule Manager' page. At the top right, it displays 'Today's Date' as 2024-01-04. On the left, a sidebar menu includes 'Administrator' (admin@edoc.com), 'Log out', and links for 'Dashboard', 'Doctors', 'Schedule' (which is highlighted in blue), 'Appointment', and 'Patients'. The main content area is titled 'Schedule Manager' with a 'Back' button. It features a 'Schedule a Session' button and a '+ Add a Session' button. Below this is a section titled 'All Sessions (5)'. A search bar allows filtering by 'Date' (04/01/2024) and 'Doctor' (Choose Doctor Name from the list). The table lists five sessions:

Session Title	Doctor	Scheduled Date & Time	Max num that can be booked	Events
Checkup	Tanuja	2023-12-31 18:40	5	<button>View</button> <button>Remove</button>
Checkup	Sirisha	2023-12-31 20:45	2	<button>View</button> <button>Remove</button>
Test Session	Geetha	2023-12-30 18:00	2	<button>View</button> <button>Remove</button>
General Checkup	Geetha	2023-12-30 18:20	2	<button>View</button> <button>Remove</button>
General Checkup	Tanuja	2023-12-30 18:33	1	<button>View</button> <button>Remove</button>

This screenshot shows the same 'Schedule Manager' interface, but with a modal dialog box in the center asking 'Are you sure?'. The dialog contains the message: 'You want to delete this record (Checkup.)'. It has two buttons: 'Yes' (highlighted in blue) and 'No'. The background of the page is dimmed.



Administrator
admin@edoc.com

[Log out](#)

- [Dashboard](#)
- [Doctors](#)
- [Schedule](#)
- [**Appointment**](#)
- [Patients](#)

Appointment Manager

[← Back](#) Today's Date **2024-01-04**

All Appointments (2)

Patient name	Appointment number	Doctor	Session Title	Session Date & Time	Appointment Date	Events
Harshitha Gowda R	1	Geetha	Test Session	2023-12-30 18:00	2024-01-04	
Sathwik Reddy	2	Geetha	General Checkup	2023-12-30 18:20	2024-01-05	

[Filter](#)



Administrator
admin@edoc.com

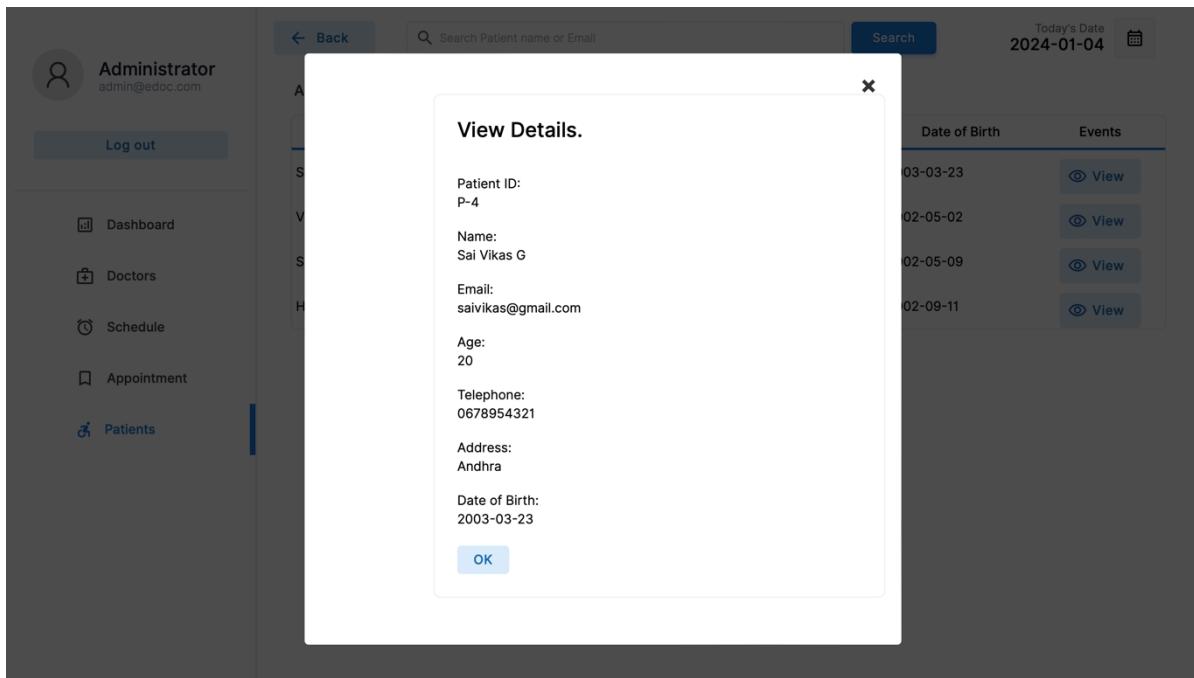
[Log out](#)

- [Dashboard](#)
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- [Schedule](#)
- [Appointment](#)
- [Patients](#)

All Patients (4)

[← Back](#) Search Patient name or Email Today's Date **2024-01-04**

Name	Age	Telephone	Email	Date of Birth	Events
Sai Vikas G	20	0678954321	saivikas@gmail.com	2003-03-23	
Vinisha S	21	0987654321	vinisha@gmail.com	2002-05-02	
Sathwik Reddy	21	0789654321	sathwik@gmail.com	2002-05-09	
Harshitha Gowda R	21	0123456789	harshitha@gmail.com	2002-09-11	



APPENDIX-C

ENCLOSURES

Research Paper Acceptance letter:



Paper Accepted- IJRASET57912

1 message

<noreply@ijraset.com>
Reply to: NoReply@server.ijraset.info
To: vinishas524@gmail.com, ijraset@gmail.com

Mon, 8 Jan, 2024 at 10:22 am



PAPER ACCEPTED

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Dear Author/Research Scholar,

I am pleased to inform you that IJRASET would like to publish your manuscript “**Doc +: Appointment Booking and Hospital Finder**” in Volume 12 Issue I January 2024. Acceptance for the paper is sent on the recommendation of experts after peer review.

In order to proceed to publish your submission we will need you to follow below process:

1. Paper will be published within 48 Hours (Guaranteed Publication within given time) after the submission of publication fee.
2. Soft Copy of the certificates will be provided immediately (within 04 hours) after paying the fee for accepted papers. You can download your certificates/check paper status online through this link-
<https://www.ijraset.com/status.php>
3. Submit Copyright form online. Link to submit Copyright online: [Click here](#)
4. Please find the Publication fee details, Account Details & Payment Methods in below table.

Publication Fee Detail.

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-----------------------	--

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Indian Authors (More than 05 Authors-Max. 08)	Rs. 1350 (Including DOI by Crossref) Click here to Pay
Payment via Paytm/Google Pay/Phonepe/BHIM	https://www.ijraset.com/ijraset-payment-upi.php
DOI(Digital Object Identifier) Number by Crossref	Free - DOI Number will be given to all authors. You can find your paper anywhere on the Internet by the assigned DOI Number.
E-Certificate	Free - Immediately (within 04 hours) after paying the fee for accepted papers
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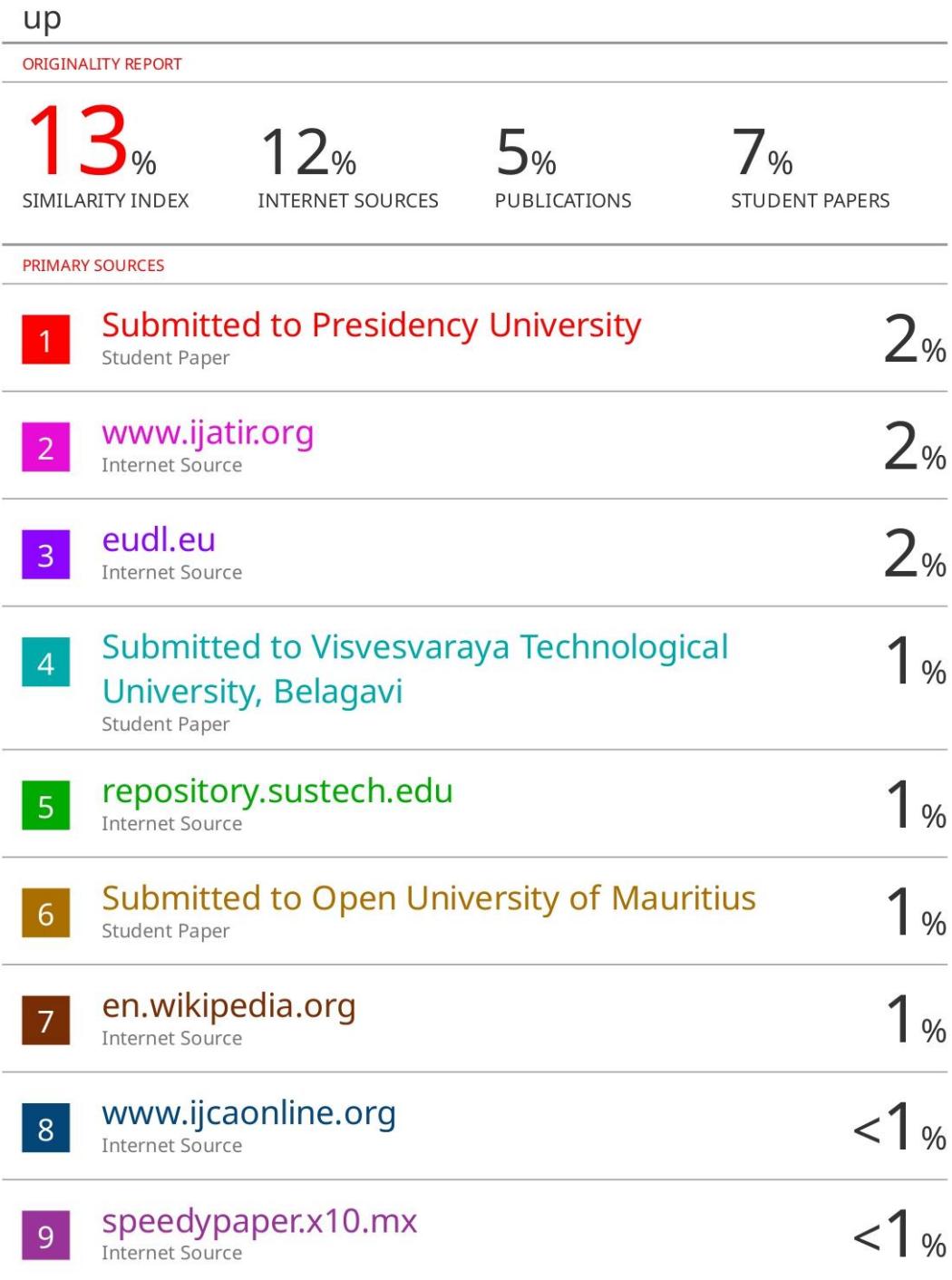
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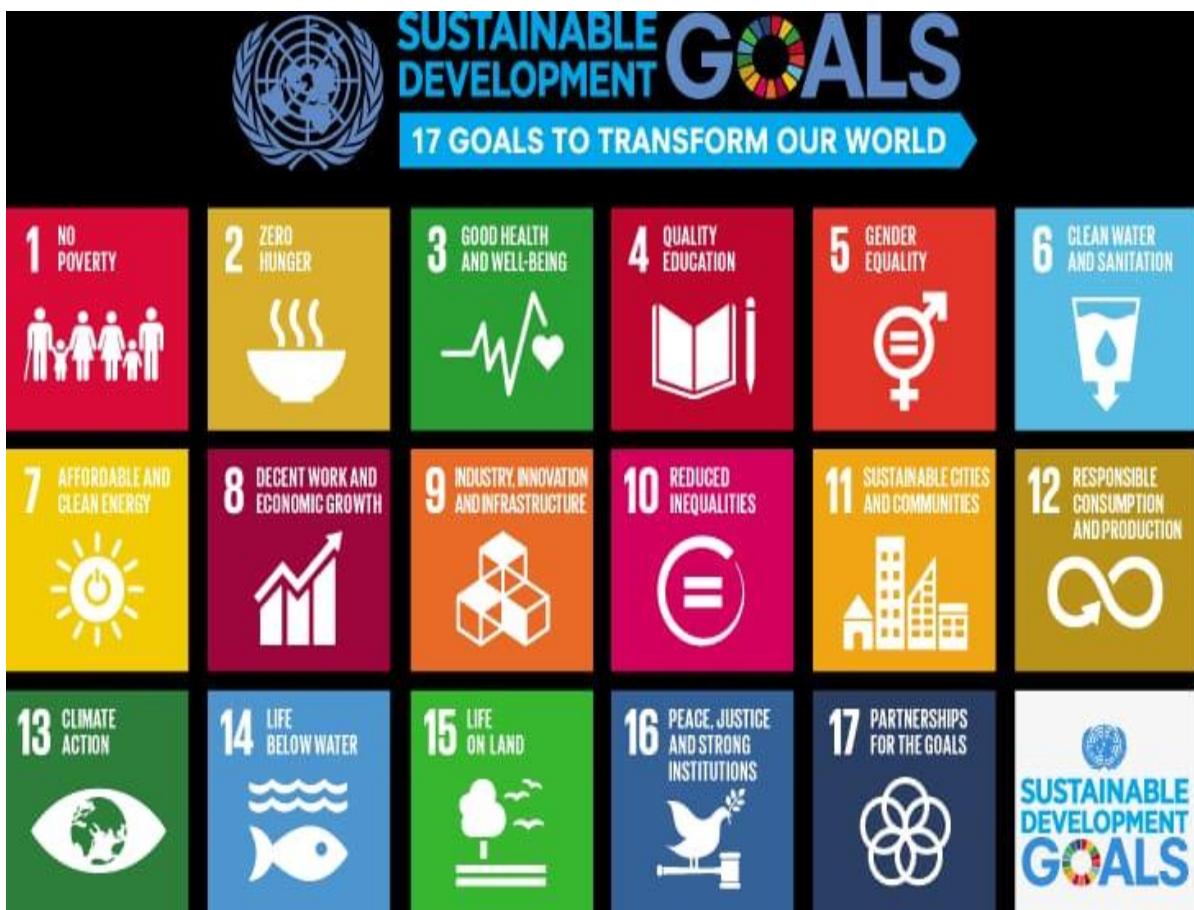
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The project work carried out here is mapped to:

1. SDG 3 - Good Health and Well-being
2. SDG 9 - Industry, Innovation, and Infrastructure,
3. SDG 10 - Reduced Inequalities

Firstly, the Hospital Finder application can help in achieving **SDG 3** - Good Health and Well-being, by providing patients with a platform to easily locate hospitals and book appointments online. This can help reduce waiting times and ensure timely access to healthcare services, which is crucial for preventing and treating illnesses. Secondly, the application can also contribute to **SDG 9** - Industry, Innovation, and Infrastructure, by promoting the use of technology to improve healthcare services. The Hospital Finder application is an innovative and advanced web-based platform that leverages technology to provide patients with a convenient and efficient way to access healthcare services. Thirdly, the application can also contribute to **SDG 10** - Reduced Inequalities by improving access to healthcare services for marginalized communities and individuals. The Hospital Finder application provides patients with a comprehensive interface to locate hospitals within their vicinity that offer specialized healthcare services tailored to their specific medical conditions, which can help address the healthcare needs of diverse communities. Overall, the Hospital Finder and appointment booking application can help in achieving Sustainable Development Goals by improving access to quality healthcare services and promoting health and well-being for all.