# Hospital Management System for VIT-Bhopal

## **An Engineering Project in Community Service**

## Phase - II Report

Submitted by

No. Registration No Name

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in partial fulfillment of the requirements for the degree of

Bachelors of Engineering and Technology



VIT Bhopal University Bhopal Madhya pradhesh



### **Bonafide Certificate**

Certified that this project report titled "Hospital Management System" is the Bonafede work of "Aniket Das-21BAI10410, Aamna Jain-21BAI10226, Aditya Yadav-21BMR10025, Shreya Jha-21BSA10074, Deepanshu Yadav-21BCE11402, Dhananjay Nagpal-21BCG10061, Omar Arif Naim-21BAI10491, Shubham Shaily-21BAI10339 and Aniket Kumar Singh-21BSA10064" who carried out the project work under my supervision.

This project report (Phase II) is submitted for the Project Viva-Voce examination held on 6<sup>th</sup> March 2024

**Project Supervisor** 

**Comments & Signature (Reviewer 1)** 

**Comments & Signature (Reviewer 2)** 



## **Declaration of Originality**

We, hereby declare that this report entitled "Hospital Management System" represents our original work carried out for the EPICS project as a student of VIT Bhopal University and, to the best of our knowledge, it contains no material previously published or written by another person, nor any material presented for the award of any other degree or diploma of VIT Bhopal University or any other institution. Works of other authors cited in this report have been duly acknowledged under the section "References".

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### **ABSTRACT**

In the present work, we have proposed the development of a sophisticated Hospital Management System (HMS) tailored specifically for the Vellore Institute of Technology (VIT) in Bhopal. Recognizing the urgent need for an adaptable healthcare infrastructure in light of recent global challenges, including the COVID-19 pandemic and outbreaks of foodborne illnesses and infectious diseases, this project aims to address immediate concerns while positioning VIT Bhopal as a leader in healthcare innovation. More than just a technological upgrade, the proposed HMS reflects VIT's commitment to community welfare and aligns with its mission of excellence in education, research, and healthcare. This system enhances healthcare administration efficiency by fostering a proactive and resilient environment capable of navigating the dynamic nature of healthcare delivery. By focusing on key objectives such as efficient patient management, real-time information access, enhanced communication, and student details management, the proposed HMS aims to create a patient-centric ecosystem that remains adaptive to evolving healthcare needs. Informed by existing literature on the transformative potential of Hospital Management Systems, the proposed system builds upon previous work and integrates innovative features to address specific challenges faced by the institute. Ultimately, the VIT Bhopal Hospital Management System aspires to elevate the standard of healthcare services, reinforcing VIT's role as a leader in education, research, and healthcare innovation.

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### 1. INTRODUCTION

In the ever-evolving landscape of healthcare, the Vellore Institute of Technology (VIT) in Bhopal recognizes the pressing need for a sophisticated and responsive Hospital Management System (HMS). Recent global challenges, including the unprecedented impacts of the COVID-19 pandemic, instances of foodborne illnesses, and the prevalence of infectious diseases like eye flu, have underscored the critical importance of a resilient and adaptive healthcare infrastructure.

This project emerges as a targeted response to these challenges, envisioning a comprehensive HMS that not only addresses immediate concerns but also positions VIT Bhopal at the forefront of healthcare innovation. Beyond being a technological upgrade, the HMS represents a commitment to the welfare of the community and aligns with VIT's overarching mission of excellence in education, research, and healthcare.

The VIT-Bhopal Hospital Management System enhances the efficiency and effectiveness of healthcare administration. By introducing a system that is tailored to the unique needs of the institute, VIT aims to foster an environment that is proactive, resilient, and capable of adapting to the dynamic nature of healthcare delivery.

As the global landscape continues to change, the importance of an integrated approach to healthcare administration becomes increasingly evident. The VIT Bhopal HMS is not merely a technological solution but a strategic initiative that aligns with the institute's commitment to staying ahead of the curve in both education and healthcare.

This introduction sets the stage for a project that goes beyond immediate challenges, anticipating the future needs of healthcare administration. The VIT Bhopal Hospital Management System is poised to be a cornerstone in the institute's journey towards excellence, innovation, and the continual improvement of healthcare services.

### 1.1 Motivation

The genesis of the VIT Bhopal Hospital Management System is rooted in a response to the tumultuous events that have unfolded globally, shaking the very foundations of healthcare management. The upheavals caused by the COVID-19 pandemic, coupled with outbreaks of food poisoning and the pervasive threat of eye flu, have starkly illuminated the vulnerabilities of contemporary healthcare systems.

In times of crisis, such as the outbreaks of food poisoning and eye flu, the institute witnessed firsthand the challenges posed to patient care, resource allocation, and efficient coordination among healthcare stakeholders. These events underscored the imperative for a robust Hospital Management System (HMS) that could seamlessly navigate through the chaos, ensuring optimal resource utilization, and elevating the standard of patient care.

The chaotic episodes within the hostel during these crises further highlighted the need for an integrated system that extends beyond healthcare, encompassing the comprehensive management of student details. The VIT Bhopal Hospital Management System, therefore, stands as a strategic response to not only healthcare challenges but also as a solution to ensure the overall well-being of the institute's community.

The motivation behind this initiative goes beyond a mere technological upgrade. It is a testament to the institute's commitment to addressing vulnerabilities exposed by crises and creating a healthcare infrastructure that is resilient, adaptive, and patient-centric. The chaos within the hostel during these events reinforced the necessity for a system that could seamlessly integrate student details management, fostering a holistic approach to information handling.

By implementing the VIT Bhopal Hospital Management System, the institute aspires not only to mitigate the impact of crises but also to proactively shape a healthcare ecosystem that can adapt dynamically to unforeseen challenges. This project represents a commitment to providing timely and efficient healthcare services while reinforcing VIT Bhopal's leadership role in education, research, and healthcare innovation.

In conclusion, the VIT Bhopal Hospital Management System is not merely a technological solution born out of recent global events. It is a strategic response to the chaos that unfolded during instances of food poisoning, eye flu outbreaks, and hostel crises. This initiative is a declaration of VIT Bhopal's dedication to advancing healthcare services, securing the well-being of patients, and fortifying the resilience of the entire institute community.

### 1.2 Objective

The VIT Bhopal Hospital Management System is strategically designed with a set of focused objectives, each tailored to address specific challenges in healthcare administration and enhance the overall quality of patient care. The project aims to achieve the following key objectives:

### **Efficient Patient Management:**

This objective revolves around streamlining the entire patient journey within the healthcare system. By implementing seamless processes from patient registration to discharge, the system aims to eliminate bottlenecks and enhance overall efficiency. Accurate record-keeping becomes paramount, reducing errors and facilitating the smooth flow of patient information, ensuring a more organized and patient-centric healthcare environment.

### **Real-time Information Access and Analysis:**

Providing authorized personnel with instant access to patient records, test results, and critical information is central to this objective. The system incorporates advanced analytical tools for real-time trend analysis, enabling healthcare professionals to make informed decisions promptly. This objective emphasizes the importance of harnessing data to enhance patient care strategies, ultimately improving healthcare outcomes.

### **Enhanced Communication:**

Communication lies at the heart of efficient healthcare delivery. By integrating features such as appointment scheduling, automated reminders, and improved communication channels, this objective aims to foster better coordination among doctors, patients, and staff. The goal is to establish a streamlined communication network that enhances collaboration and ensures timely and effective information exchange within the healthcare ecosystem.

### **Student Details Management:**

Beyond healthcare, the system extends its capabilities to encompass the management of student details. This objective recognizes the interconnected nature of education and healthcare, offering a comprehensive solution for adding, updating, deleting, and searching student information. By

seamlessly integrating student details management, the system contributes to the broader administrative needs of the institute, creating a unified platform for information management.

The VIT Bhopal Hospital Management System, through these refined objectives, strives to create a technologically advanced and patient-centric healthcare ecosystem. By focusing on efficient patient management, real-time information access and analysis, enhanced communication, and student details management, the project aims to elevate the standard of healthcare services while reinforcing VIT Bhopal's commitment to excellence in education, research, and healthcare innovation.

### 2. Existing Work / Literature Review

Healthcare management systems have been the subject of extensive research and development in response to the growing complexity of healthcare delivery and the increasing demand for efficient patient care. A comprehensive review of existing literature reveals several trends and key areas of focus in the realm of Hospital Management Systems (HMS).

One prominent theme in the literature is the emphasis on digitization and automation to enhance the efficiency of healthcare processes. Numerous studies highlight the advantages of integrated information systems in streamlining patient management, improving resource allocation, and facilitating data-driven decision-making. These systems have demonstrated the potential to reduce administrative burdens, minimize errors, and enhance overall hospital performance.

Real-time information access has emerged as a critical aspect of effective healthcare management. Research has consistently shown that providing authorized personnel with instantaneous access to patient records, test results, and critical information significantly contributes to quicker decision-making and improved patient care. This aligns closely with one of the primary objectives of the VIT Bhopal Hospital Management System – to leverage real-time information for enhanced healthcare outcomes.

Communication within the healthcare ecosystem has also been a key focus of existing literature. Studies underscore the importance of seamless communication channels between doctors,

patients, and staff. Integrated features such as appointment scheduling and automated reminders have been found to foster better coordination, leading to improved patient engagement and satisfaction. This aligns with the project's objective of enhancing communication channels to create a more connected and responsive healthcare environment.

While many existing systems have made substantial progress, challenges remain, particularly in the context of student details management within educational institutions. Limited literature exists on the integration of student information with healthcare management systems. The VIT Bhopal Hospital Management System, by extending its capabilities to include student details management, aims to address this gap and provide a holistic solution that caters to both healthcare and educational administrative needs.

In conclusion, the existing literature highlights the transformative potential of Hospital Management Systems in enhancing the efficiency and effectiveness of healthcare delivery. The VIT Bhopal Hospital Management System, informed by these insights, seeks to build upon existing work and contribute to the ongoing evolution of healthcare management systems by addressing specific challenges faced by the institute and incorporating innovative features that align with contemporary trends in healthcare administration

## 3. Topic of the work

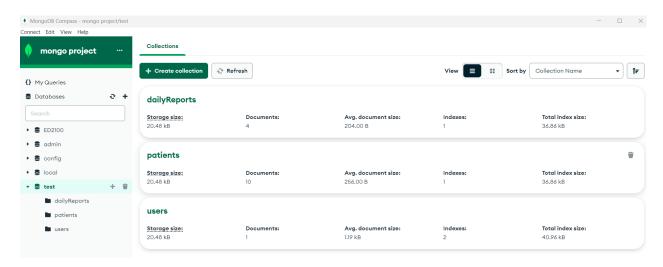
## a) System Design / Architecture-:

The architecture of the VIT Bhopal Hospital Management System is meticulously crafted to ensure scalability, efficiency, and seamless integration of various modules. The system follows a modular structure, comprising distinct components that collaboratively contribute to the overall functionality.

### **Database Management System:**

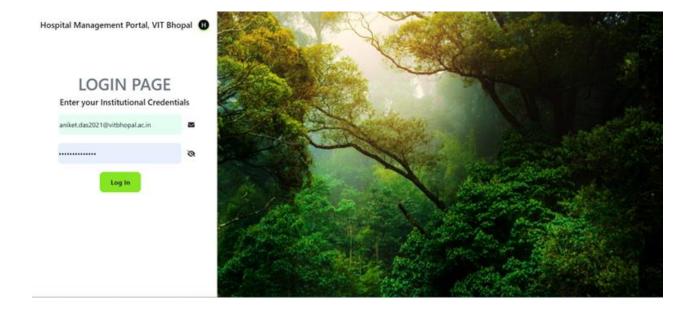
The system employs a robust and scalable database management system to store and manage extensive patient records, student details, and other critical information. This centralized database

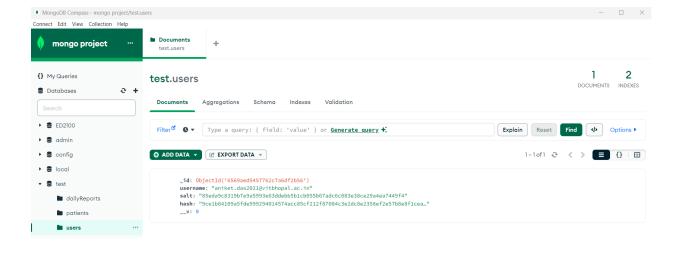
ensures data integrity, security, and efficient retrieval, catering to the growing needs of a dynamic healthcare environment.



### **User Authentication and Access Control:**

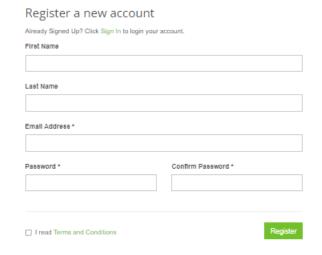
A secure and sophisticated authentication system is implemented to validate user credentials, differentiating between wardens, doctors, and other authorized personnel. Granular access control mechanisms are in place to ensure that users have appropriate permissions based on their roles within the healthcare ecosystem, bolstering data security.







### REGISTER







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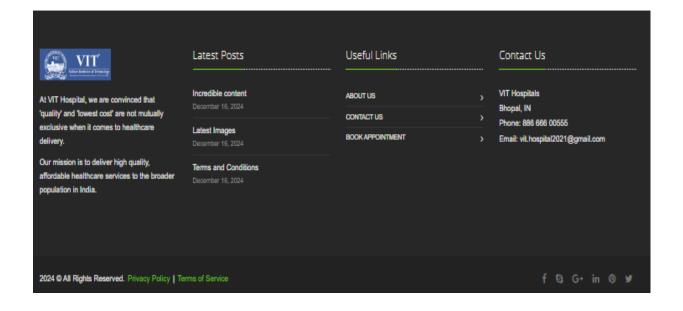
### LOGIN

## Login to your account

<u>A</u>	Email Address		
<u></u>	Password		
□ St	ay signed in Login		

### Forget your Password?

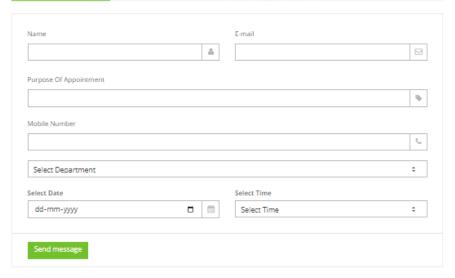
no worries, click here to reset your password.





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### Appointment Form



### Appointment Notes

You Only Can Book Your Appointment Between 8 AM to 10 PM.

In Other Times You Can Call Our Ambulance Which Is Available 24/7.

### **Business Hours**

Monday-Saturday: 24/7 Available. Sunday: 4 AM to 11 PM.

### Why Choose Us?

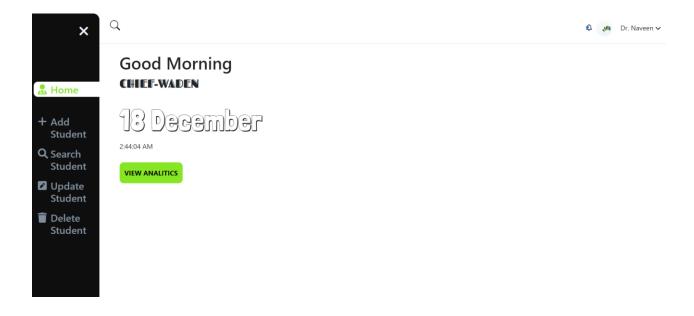
All healthcare facilities can be accessed here under one roof, making VIT Hospital a one point contact for all your healthcare needs.

- ✓ 24/7 Ambulance Support.
- ✓ Eminent and Experienced Doctors.
- Multiple Options For Treatment.



### **Frontend Interface:**

The system features an intuitive, responsive, and user-friendly frontend interface accessible through web browsers and mobile devices. This interface allows users to interact with the system seamlessly, performing tasks such as patient management, appointment scheduling, and student details management with an enhanced user experience.





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### ABOUT VIT

VIT VrT Hospital is a multisuper speciality hospital located at Bhopal, with state-of-the-art facilities & treatments at an affortable cost, encompassing wide spectrum of accurate diagnostics and elegant therapeutics created on the philosophical edifice of patient and ethical centricity ensuring humanistic dispensation.

- ✓ Multiple Options For Treatment.
- ✓ Full Of Latest Technologies and Equipments.

  ✓ Best Hospital Of 2024 Award Winner.

  ✓ 24/7 Ambulance Support. ✓ Eminent and Experienced Doctors
- As a leading health organization in our region, we want to be a strong influence for better health and prevention, and there's no better place to start than among our own employees.
- CEO VISHWANATHAN ANAND





Ensuring 'well being' as a humane commitment to enliven humanity.



The 'well being' ensured by extension of Available, Accessible, Affordable, Safe, Efficacious, Professional And Ethical.



## G CORE VALUES

Team Work, Integrity, Responsibility, Compassion And Ethics.

### OUR DEPARTMENTS

VIT Hospital is spread over a massive 6 acre campus providing 300+ beds and catering for nearly 45 super-specialties



### CARDIOLOGY

The department of cardiology at VIT Hospital comprises of top cardiac experts who have appreciable experience in dealing with various types of cases in the cardiology and perform accurate diagnosis



### DERMATOLOGY AND COSMETOLOGY

The dermatology department of VIT Hospital consists of a team of dermatologists and staff who are practicing in the field of dermatology and cosmetology for years and perform their best to treat the patients.



### EMERGENCY CARE, CCU, & ICU

At VIT Hospital, 24x7 care is provided to all our patients, keeping in mind patient dignity and ethical practice. Holistic care is ensured by our team of critical care experts who use a multidisciplinary approach.



### GENERAL SURGERY

At VIT Hospital, we have a team of experienced general surgeons who possess the skills to carry out the most complex surgeries



### HEALTH CHECKUP PACKAGES

VIT Hospital provides health check up packages in Bhopal at very affordable price. As we aim at imbibing hope, health, and happiness in the community at large, our health check up packages in help in early diagnosis.



### NEUROLOGY

The team at the Neurology department of VIT Hospital comprises of highly-trained, skilled, and well-experienced learn of Neurologists, Neurosurgeons, interventional radiologists, Neurophysiotherpists and rehabilitation teams who make sure that the patients receive the best qualify treatments.



Terms and Conditions

- VIT Hospital Bhopal, IN Phone: 886 666 00555 Email: vit.hospital2021@gr

2024 

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### Our Specialities





24/7 Ambulance support
24 Haus Aeladance Service Energency
Andidance Service Providers in India.

Dedicated Stroke Centre

We specially have dedicated gode centre with its
very handy in critical stutions.

Dedicated Stroke Centre

We specially have dedicated gode retrieves in its Centre

We have have dedicated Joer Réglacement

Centre







LASIK Vision Correction Treatment
We have LASK Vision restricts which is the lated.
In the world.

These Operation Theatres are full of latest technologies and experience.

17 State of the-art Operation
Theatres
Theatres
2 Endoscopy Suites are with latest equipments and very faithr as compared to offers.

### Health Packages

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### **DOCTORS**



DR. SHUBHAM SHAILLY Child care

DR. ANIKET DAS

Neurology



DR. VINOD SHAILLY

General Surgery



DR. OMAR ARIF NAIM





DR. ADITYA YADAV





DR. SHREYA JHA

Eye Specialist



DR. AMNA JAIN

CCU & ICU



DR. ANIKET KUMAR YADAV

Health Checkup





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### GALLERY





OPD AREA



OPD AREA

ROOMS FOR PATIENTS







PARKING AREA





PLATINUM WING HOSPITAL



### **BLOGS**



### How to maintain bone and joint health during winters?

It is usually due to restricted absorption of Vitamin D (sunlight) in your body during winter or due to decreased blood flow to bones to increase body temperature or due to restricted mibility to conserve energy which allows accumulation of inflammatory markers or toxins in jorinst. This leads to stiffness and pain in joints. Ignoring problems related to bones and joints which can lead to further deterioration.

These are few tips to keep your joints and muscles healthy during this winter :

- A balanced diet is key to overall healthy living. Eat a diet which comprises of fruits, vegetables, cereals, dairy products and pulses.
   29 Eat foods froit Nitamin (D. Dad 29) Eat foods froit Nitamin (D. Dad Co. 3) Physical activity is also important. Exercising strengthens the muscles and maintains.

weight.
4) Do not over eat and reduce weight.

By Dr. virachalli | O December 31, 2024



### Body Weight - What you must know!

- Q: Why is body weight so important to us?
- A: Bodyweight is a vital part of our physical and mental health.
- Q: What is an ideal body weight?
- A: There is no single defined value for an ideal weight. The ideal weight for a person depends on their height and age.
- A: Your weight depends upon a number of factors. These include your age, muscle ma fat mass, gender and body shape.

By Dr. suneet joshi | O December 31, 2024



### Robot Assisted Kidney Transplant in France

First robot assisted kidney transplart (RAKT) was performed in France in 2002. Since then, it is gradually gaining foothold in transplant arena. Majority of work is being done in india and few centres in USA. World wide experience has established its functional outcomes comparable to open transplant. The patient has got multiple benefits.

- 1) Lesser pain early mobility, early recovery
- 2) Less chance of wound infection no adverse effect on graft function
- 3) Less blood loss, Minimal scars, improved cosmetic effects

Max Super Specialty Hospital, Saket, New Delhi is amongst the few centres across the world routinely doing RAKT.

By Dr. Anant kant shukla | Ø December 31, 2024



### IMPORTANCE OF SLEEP IN BRAIN HEALTH

Those mood swings are for real... Your brain regulates the hormones and the neurotrasnmitters. These chemicals are basically responsible for the way you feel. Chemical compounds like dopamine, serdorini, oxylocin help us feeling good, happy and upbeat. Sleep plays an important role in their regulation. Lack of sleep can make you irritated, impulsive and angry. The moments when you over react and have an outburst are more likely to happen when you have not slept well.

Lack of sleep makes you slow. Sleep deprivation slows down the brain's ability to react quickly. Tired drivers and plots tend to have more accidents and that is a well known fact. Sleep deprivation slows down the brain akin to getting drunk. Just like you should not be driving under the influence of alcohol the same applies to sleep deprivation.

By Dr. Priyanka roy | ② December 31, 2024



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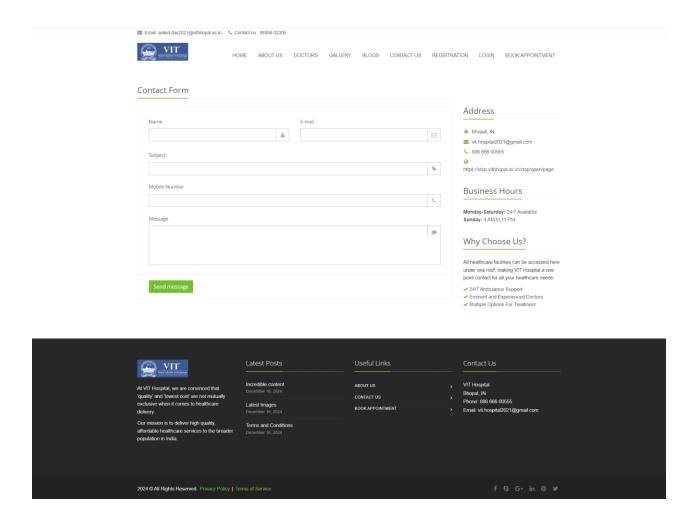
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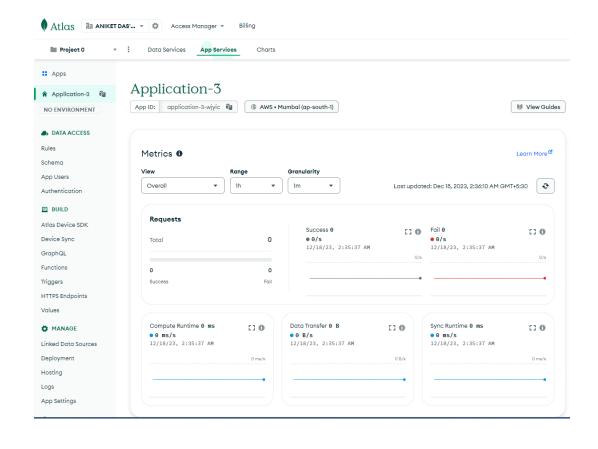
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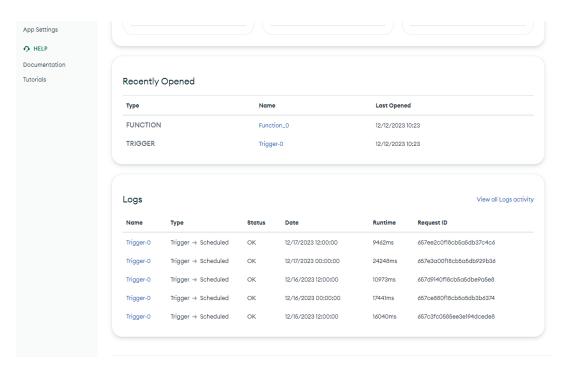
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### Middleware Integration:

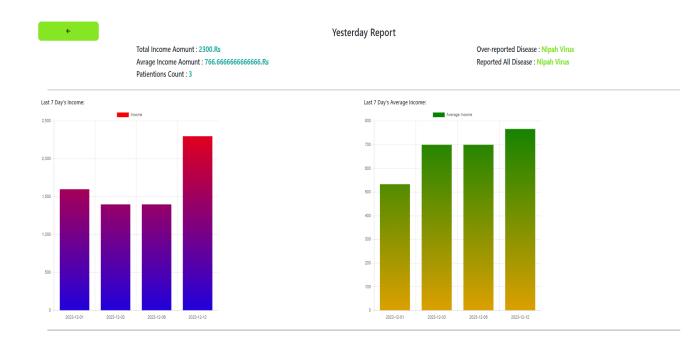
Middleware components facilitate robust communication between the frontend and backend modules. This integration ensures real-time data exchange and supports the smooth functioning of various features, including appointment scheduling, communication channels, and seamless coordination between different facets of the healthcare system.

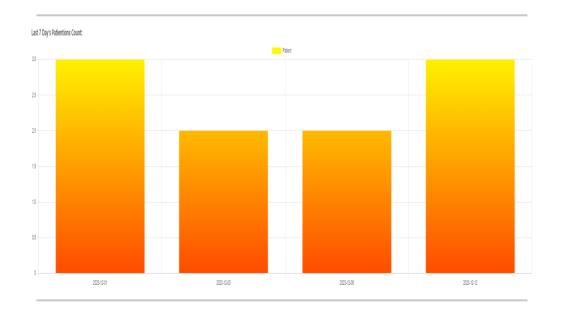


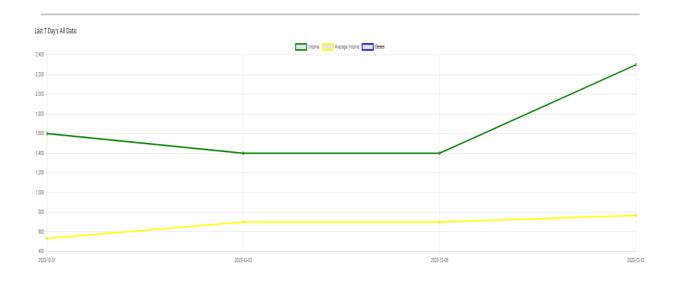


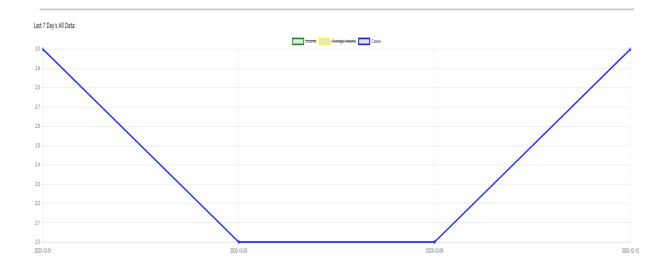
### **Analytics Dashboard:**

An advanced analytics dashboard is integrated into the system, providing stakeholders with comprehensive insights into hospital operations. This dashboard harnesses cutting-edge data analytics tools to present trends, patterns, and forecasts, facilitating informed decision-making for healthcare professionals and administrators.









### b) Working Principle

The VIT Bhopal Hospital Management System operates on the principle of integration and automation to enhance the efficiency of healthcare processes. The system begins with robust user authentication, ensuring that only authorized personnel gain access to the system, thereby fortifying the system against unauthorized access and data breaches.

Once authenticated, users interact with an exceptionally user-friendly interface that provides a myriad of functionalities ranging from swift patient registration to meticulous student details

management. The system's efficiency is further underscored by its ability to streamline patient management processes, including registration, admission, and discharge, with a focus on real-time information access for healthcare professionals.

Efficient appointment scheduling features enhance communication channels between doctors and patients, optimizing resource utilization and improving the overall patient experience. The working principle also revolves around seamless integration of student details management, acknowledging the interconnected nature of healthcare and education within the institute. Middleware components ensure uninterrupted communication between different modules, fostering a cohesive and interconnected healthcare ecosystem.

### c) Expected Results

The implementation of the VIT Bhopal Hospital Management System is anticipated to yield a plethora of tangible and intangible results, contributing to a more efficient and patient-centric healthcare environment:

### **Enhanced Operational Efficiency:**

The streamlined processes and automation within the system are expected to significantly reduce administrative burdens, minimizing manual errors, and enhancing overall hospital efficiency, leading to a more agile and responsive healthcare system.

### **Improved Patient Care:**

Real-time information access, efficient appointment scheduling, and enhanced communication channels are expected to result in a quantum leap in patient care. Quicker access to critical information and a more personalized healthcare experience are poised to elevate the standard of care provided by the hospital.

### **Optimized Resource Allocation:**

Integration of various departments and automation of routine tasks are projected to optimize resource allocation. This optimization is geared towards reducing redundancy, cutting costs, and

improving overall resource utilization, thereby contributing to a more sustainable healthcare model.

### **Comprehensive Analytics:**

The analytics dashboard is anticipated to provide stakeholders with not just data but actionable insights into hospital operations. This analytical prowess is poised to enable data-driven decision-making and strategic planning for future healthcare initiatives, ensuring the hospital stays at the forefront of innovative and effective healthcare delivery.

### **Holistic Information Management:**

The integration of student details management within the system is expected to create a more comprehensive and interconnected information management system. This holistic approach addresses administrative needs beyond healthcare, creating synergies between healthcare and educational aspects, fostering a well-rounded institutional environment.

In summary, the VIT Bhopal Hospital Management System is designed with the expectation of significantly improving the efficiency of healthcare administration, enhancing patient care, and providing invaluable insights for strategic decision-making within the institute. The emphasis on robust architecture, seamless integration, and advanced analytics underscores the commitment to excellence and innovation in healthcare management.

### 4. CONCLUSION (Phase – II)

The successful completion of Phase I marks a significant milestone in the development and implementation of the VIT Bhopal Hospital Management System. This phase focused on laying the foundation for a robust, scalable, and integrated healthcare solution that aligns with the institute's commitment to excellence in healthcare administration.

During this phase, meticulous attention was given to system design and architecture. The adoption of a modular structure ensures adaptability and facilitates seamless integration of various modules, creating a cohesive ecosystem for healthcare management. The implementation of a secure and

efficient database management system underscores the commitment to data integrity, security, and accessibility.

User authentication and access control mechanisms were carefully implemented to safeguard sensitive information and differentiate between various roles within the healthcare ecosystem. The frontend interface, designed for accessibility and ease of use, reflects a dedication to providing a superior user experience for all stakeholders.

Middleware integration has been a key focus, allowing for real-time data exchange between the frontend and backend modules. This integration is crucial for the smooth functioning of features such as appointment scheduling and communication channels, laying the groundwork for efficient healthcare processes.

The inclusion of an analytics dashboard sets the stage for data-driven decision-making. This tool provides stakeholders with valuable insights into hospital operations, empowering them to make informed choices and strategically plan for the future. The emphasis on comprehensive information management, including student details, highlights the system's holistic approach to addressing diverse institutional needs.

As we conclude Phase I, we anticipate tangible outcomes, including enhanced operational efficiency, improved patient care, optimized resource allocation, and comprehensive analytics. The groundwork laid in this phase creates a solid foundation for subsequent developments, leading the way for a transformative healthcare management system at VIT Bhopal.

The collaboration, dedication, and expertise demonstrated by the project team during Phase I are commendable. The successful completion of this phase not only showcases technical proficiency but also a commitment to delivering a system that aligns with the highest standards of healthcare management.

Looking ahead, Phase II will build upon the achievements of Phase I, incorporating advanced functionalities, refining user experiences, and ensuring the seamless integration of additional features. The journey towards a modern, efficient, and patient-centric hospital management system

at VIT Bhopal continues, with a collective vision of setting new benchmarks in healthcare administration.

In conclusion, the completion of Phase I is not just a milestone; it is a testament to the dedication, expertise, and collaborative spirit driving the VIT Bhopal Hospital Management System project. The journey towards a transformative healthcare solution has begun, and we are poised for even greater accomplishments in the phases to come.

### 5. Reference:

- 1. Naoual El aboudi, Laila Benhlima, "Big Data Management for Healthcare Systems: Architecture, Requirements, and Implementation", Hindawi Advances in Bioinformatics Volume 2018, Article ID 4059018, 21 June 2018.
- 2. Premkumar.B, Dr. Kalpana, "E –Hospital Management & Hospital Information Systems Changing Trends", I.J. Information Engineering and Electronic Business, 2013, 1, 50-58
- 3. Gunathilake C.D., Theebanraj U., Ananthan Y., Kanishkar R., D.I. De Silva and Samitha Vidhanarachchi, "Hospital Management & Hospital Information System Use of IOT", International Journal of Engineering and Management Research, e-ISSN:2250-0758 p-ISSN:2394-6962 Vol-12, Issue-5 October 2022.
- 4. K.Nishanthan, S.Mathyvathana, R.Priyanthi, A.Thusara, D.I. De Silva and Dulanji Cooray, "The Hospital Management System", International Journal of Engineering and Management Research, e-ISSN: 2250-0758 | p-ISSN: 2394-6962, Volume-12, Issue-5 (October 2022).

### 6. Bio-Data of Members:

### 1. Personal Information:



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- Registration Number 21BAI10410
- Email aniket.das2021@vitbhopal.ac.in

### 2. Education:

- Vellore Institute of Technology, Bhopal Bachelor's Degree (CSE AIML)
- Ryan International School, Greater Noida High school Diploma (PCM)

### 3. Technical skills:

- Web Development HTML, CSS-Bootstrap, Google Fonts, Nodejs.
- Database Design and Development MongoDB Server Application Hosting.

### Personal Information:

- Full Name -
- Registration Number -
- Email -

### 2. Education:

- Vellore Institute of Technology, Bhopal Bachelor's Degree (CSE AIML)
- XYXX School, CITY High school Diploma (PCM)

### 3. Technical skills:

- skill 1
- skill2

### 1. Personal Information:

	•	Full Name -	
	•	Registration Number -	
	•	Email -	
2.	Education:		
	•	Vellore Institute of Technology, Bhopal - Bachelor's Degree (CSE AIML)	
	•	XYXX School, CITY - High school Diploma (PCM)	
3.	Technic	cal skills:	
	•	skill 1	
	•	skill2	
1.	Person	al Information:	
	•	Full Name -	
	•	Registration Number -	
	•	Email -	
2.	Education:		
	•	Vellore Institute of Technology, Bhopal - Bachelor's Degree (CSE AIML)	
	•	XYXX School, CITY - High school Diploma (PCM)	
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	•	skill2	
1.	Personal Information:		
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	•	Email -	
2.	Education:		

	•	Vellore Institute of Technology, Bhopal - Bachelor's Degree (CSE AIML)		
	•	XYXX School, CITY - High school Diploma (PCM)		
3.	Technical skills:			
	•	skill 1		
	•	skill2		
1.	Personal Information:			
	•	Full Name -		
	•	Registration Number -		
	•	Email -		
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skill2

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