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MEDI ASSIST PORTAL

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Abstract-Service institutions are considered one of the most important institutions in our time, and they have become a great place in our lives The health institutions are considered the most important, because they provide many types of required health services and related to the safety of the health of individuals, and through cooperation between the academic study and the health sector. This research paper presented a proposal Medical assist portal system project is primarily focused on managing medical-related records within a hospital. More precisely, this system helps track medical reports. The system also shows all available employees and patients. more ever, the system can total inventory and pharmacy records, this system containing of two major sections: database structure, and GUI frames (created in PHP, HTML, and CSS). The database constructed with MYSQL and the GUI frame make it easier for novitiate users to utilize the suggested system. at the latest this paper describes a hospital system that can be used to manage and analyses hospital information related to patients, treatments, and appointments. The practical implications of this system are: It can help hospitals to manage their operations more easily by providing a centralized system for managing patient info, treat records, The system can be of assistance hospital administrators to make data-driven decisions by providing them with real-time information about hospital operations, and improve patient care by providing doctors with easy and user friendly access to patient information and treatment records, The system can be beneficial to reduce errors and improve accuracy by automating many of the manual processes involved in managing hospital information. Overall, the MH described in this paper has the ability to increase efficiency, accuracy, and quality of hospital operations, which can ultimately lead to better patient outcomes.

Keywords: hospital system, pharmacy, health, patient

I. INTRODUCTION

Hospitals are the most expensive and complicated health-care institutions, Hospital administrators' ability to make sound decisions is critical to providing safe and effective patient care. The extensive responsibility of a hospital executive is to guarantee that the hospital offers exclusive and best services and care for its patients. Everyday hospital performance metrics are viewed using this PHP Framework. This portal is also a enabled hospital administrators to monitor
hospital operating data in a user-friendly manner. Therefore, it reduces hospital labour. The goal in computerizing hospital administration is to transform all paper records into electronic records, the doctor can access them to everything related to the health institution through an web page, where the first benefit of the system is the doctor to be able to follow up on his patients in an easy, make simple and more accurate effective manner. Also MAP is to collect the data of the institution in one database. Ease of data recapture and processing and modifications. In addition to saving data from damage or miss use and loss through backup copies and providing protection for it, which leads to the required speed and accuracy in completing the work.

II. LITERATURE SURVEY/BACKGROUND

The previous studies that the researcher reviewed were limited to suggestions for her program and their application in building medical records and designing the system according to the following studies, which we see in order from the most recent to the oldest.

The study focuses on created a web-based information system for patient referrals to addressing the deficiency of the present typical assignation mechanism for patient service. The system was created to deliver timely and reliable patient data without need a referral letter or hard copy from the clinic. The system was created to utilizing an object-oriented system design
methodology, which successfully addressed issues with referral system circulation and delivered more optimum and integrated referral patient data information and underwent black box testing to ensure user-friendliness and efficiency. The interface design of the system containing several components, including the main home page, registration form , administrator login page, patient information input interface, doctor input interface, user information input the interface, diagnostic data inputs interface, and reporting interface. Through the registration form interface, the system allowing users to submit their data, which was then saved in the patient section/account. The patient data input interface was used to enter patient referral data into the database, while the admin login page was used to handle the overall system data. Researchers employed Unified Modelling Language tools and object-oriented system analysis is used to examine the study's findings and create the application. In the application design, use case diagrams were utilized to describe the behaviors of the users. [1]

The outcome of the research paper shows that a simple, easy and basic program was developed to manage a system that maintain keeps track of various details. The project has provided useful insights into the functioning of hospitals, good understanding of database design, also improves time management skills, collaboration, and increasing the confidence in handling real-life projects. The project also highlighting the importance of changeover from paper-based records to electronic systems. Overall, the project aims to address the problem of manual record-keeping in hospitals and contribute to the advancement of technology in the healthcare sector. [2]

The paper focuses on the development of healthcare application using, specifically targeting hospital management systems. The results of the study indicate that the developed system provides an easy and user-friendly interface for end users. The study also highlights hospital administrators' requirements as well as the ecosystem in which they function. It goes through the internal and external environmental facet that impact and grows day-to-day hospital activities and decision-making operations. High demand pressure, consumer satisfaction, and low profit margins are among the issues discussed in the article. The study adds to the planning, design, and development of hospital management systems by identifying key variables to consider. [3]

Finding success indicators for Hospital Systems (HS) is the paper's main objective and highlights the performance indicators and difficulties associated with the adoption of Electronic-Hospital Systems (EHS), The EHS includes modules such as traffic management, Blood Bank, medicines, Pharmacy, and MIS Interface. The Radiology Management module stores test results and generates records based on examination outcomes, The Blood Bank module keeps information about blood donation, including donor and recipient details or information. [4]

III. METHODOLOGY

The paper describes a hospital (medical) system project that is primarily focused on managing medical-related records within a hospital. The system integrates inventory and pharmacy information, shows all active personnel and patients, and aids in the tracking of medical reports. A MySQL database and a Graphical User Interface (GUI) created in the PHP, HTML, and CSS programming languages make up its two core components. It is used to enhance data security, patient control over their data, interoperability, and efficiency in hospital information systems. The proposed system uses the PHP Framework to view hospital workflow indicators daily, allowing hospital executives to detector of hospital operational data easily. The system contains two main parts: a database created using MySQL and graphical user interfaces created using webs programming languages such as PHP, HTML, and CSS. The purpose of using the database is to reduces the data repetition, increase consistency, and efficiency, accept large data sets , and reduce errors, the research includes an explanation of the proposed system and its analysis , using a Class Diagram to determine the four parts of the system: Patients registration, Pharmacy, Inventory, and Laboratory medicines.

IV. PROJECT SCOPE

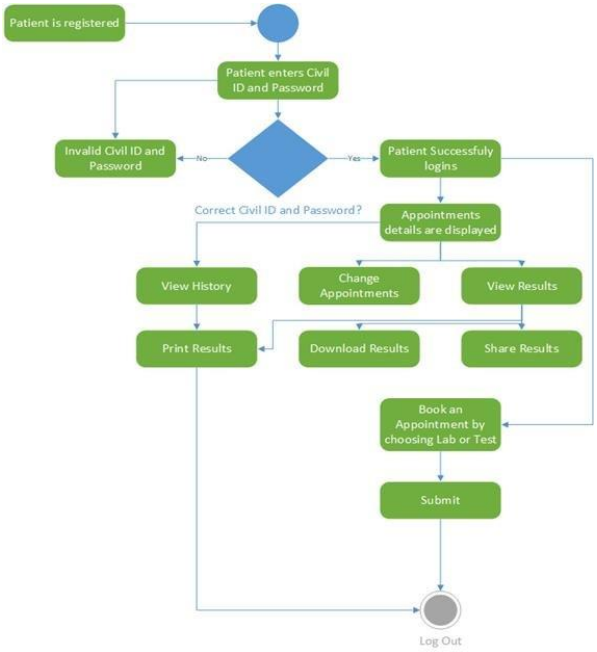
- Fileless medical history checking.
- Organ donor/receiver fileless checking.
- Medical history/Medical documents/vaccine details from birth along with dr. details easily accessible to user.
- All lifetime history can be analyzed for all types of doctors.
- Medical documents/vaccine details from birth along with dr. details easily accessible to user.
- Vaccine details from birth along with dr. details easily accessible to user.
- Doctors can easily give fast treatment to patients by analyzing past records.

V. PROPOSED SYSTEM

This project helps to examine the patient’s for doctor easily with the help of patient’s previous medical history documents uploaded on the portal. The fundamental aim of the project specifies how easy to examine for the doctor to a patient & to decide for the next step in less amount of time.

One of the aims of this work is to overcomes the majority of the difficulties with older systems. by associating the system to a MySQL database, Get Reliability, great Performance, and Larger Capacity. In addition to it , by designing the GUI of the system simply and in less time , Easier to handle than mandatory Experienced user. software methods is used for PHP Framework and MySQL, the proposed system is General normal and basic work of hospital. Installed system Includes two aspects: MySQL Server and database , Design using PHP. The system was inspect using the Unified Modelling Language which may be incorporate of anything that helps you describe your system, including pseudo-code, actual code, image, and overall descripted explanation. The provided electronical hospital system employs the proposed algorithms for managing all hospital system.

VI. PROCESS MODEL



VII. BENEFITS

- Improved Efficiency: Medical assistance portal automates various tasks such as appointment scheduling, patient registration, billing, and inventory management. This automation reduces paperwork and streamlines processes, leading to increased efficiency within the hospital.
- Enhanced Patient Care: With features like electronic health records (EHR) and patient portals, HMS enables healthcare providers to access patient information quickly and accurately. This facilitates better diagnosis and treatment decisions, ultimately improving patient care outcomes.
- Better Communication: systems often include communication tools such as messaging and alerts, allowing healthcare providers to communicate seamlessly with each other and with patients. This improves coordination of care and ensures that everyone involved in a patient's treatment is well-informed.
- Cost Savings: By automating processes and reducing paperwork, portal can help healthcare facilities save money on administrative costs. Additionally, better management of resources such as inventory and staff scheduling can lead to further cost savings.
- Data Security and Compliance: systems are designed to comply with healthcare regulations such as HIPAA (Health Insurance Portability and Accountability Act) in the United States. They employ robust security measures to protect patient data from unauthorized access, ensuring compliance and maintaining patient trust.
- Analytics and Reporting: this systems often come with built-in analytics and reporting tools that allow healthcare facilities to analyse data such as patient demographics, treatment outcomes, and financial performance. This information can be used to identify trends, make data-driven decisions, and improve overall hospital management.
- Patient Engagement: Patient portals and other interactive features of the systems enable patients to take a more active role in their healthcare. Patients can schedule appointments, access their medical records, and communicate with healthcare providers online, leading to increased engagement and satisfaction.
- Overall, systems play a crucial role in modernizing healthcare operations, improving patient care, and enhancing the efficiency and effectiveness of healthcare delivery.

VIII. CONCLUSION

This project helps to examine the patient's for doctor easily with the help of patient's previous medical history documents uploaded on the portal.The fundamental aim of the project specifies how easy to examine for the doctor to a patient & to decide for the next step in less amount of time.

The motivational purpose of using the database is to reducing the repetition of the data, increase the consistency between them, accepting large data, reduce errors and try to avoid them as much as possible by improving and creating a access to data by users using the query language. A password used and was set to protect information from unauthorized persons or users , and the graphical interfaces that were designed in the system provided no trouble of management by users, even if they were not programmed.

The proposed system was tested, recording and entering patient information, issuing medicines, and keeping them in the stores and warehouses of the proposed hospital. Where the system achieved fewer errors and more effective procedures, which can be summarized in the following points: - The possibility of using the system in an effective way in gov. and private hospitals - Graphical interfaces are very easy to use and understand, which achieves the scaling down of human efforts and paperwork. The system requires an efficient computer and an internet connection in add on to training courses on the use of the system by the hospital staff, including doctors and employees as well.

REFERENCES

[1] PHP Pocket Reference, 2nd Edition by Rasmus Lerdorf.
[2] Responsive Web Design with HTML5 and CSS: Develop future-proof responsive websites using the latest HTML5 and CSS techniques, 3rd Edition by Ben Frain.
[3] "Web-Based Patient Referral System Design from Clinic to," Journal of Information Systems and Informatics, pp. Vol. 5, No. 1, pp(87-101), March 2023.
[4] Alpert, J.M., et al., Implications of Patient Portal Transparency in Oncology: Qualitative Interview Study on the Experiences of Patients, Oncologists, and Medical Informaticists. JMIR Cancer, 2018. 4(1): p. e5.
[5] Dendere, R., et al., Patient Portals Facilitating Engagement With Inpatient Electronic Medical Records: A Systematic Review. J Med Internet Res, 2019. 21(4): p. e12779.
[6] Han, H.R., et al., Using Patient Portals to Improve Patient Outcomes: Systematic Review. JMIR Hum Factors, 2019. 6(4): p. e15038.
[7] Szilagyi, P.G., et al., Pediatric patient portal use in one health system. J Am Med Inform Assoc, 2020. 27(3): p. 444-448.