COMPUTER SCIENCE (083)
PROJECT SYNOPSIS
SESSION : 2021 – 22

TITLE : HOSPITAL MANAGEMENT SYSTEM

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CERTIFICATE

This is to certify that the project synopsis entitled "Hospital Management System" is a precise record of work done by Vikhyati Singh of class XII-B for Term 1 AISSCE Examination under the guidance and supervision of Ms. Venkatalakshmi, PGT-Computer Science, Ryan International School, Ghaziabad, during the academic session 2021-22 as per the guidelines issued by CBSE.

Internal Examiner

Ms. Venkatalakshmi

TITLE OF THE PROJECT – HOSPITAL MANAGEMENT SYSTEM

PROBLEM DEFINITION-

Why automate your hospital processes when your staff has the calibre and expertise to perform them manually? Why the unnecessary cost? Aiming to clear that confusion, in this post we explore the advantages of implementing a hospital information system and the changes the hospital processes undergo as a result.

OBJECTIVE AND SCOPE OF THE PROJECT-

➢ Login into the database by verifying the password
➢ Adding records to the database
➢ Searching for a record
➢ Deleting a record

MINIMUM HARDWARE REQUIREMENT-

➢ Laptop
➢ Modern Operating system-Windows 7 or Windows 10
➢ x86 64-bit CPU
➢ 4 GB RAM

MINIMUM SOFTWARE REQUIREMENT-

➢ Operating System

- Windows 7 or 10
- Mac OS X 10.11 or higher, 64 bit
- Linux: RHEL 6/7, 64 bit

➢ Python Versions 3.x.x or higher
➢ MySQL Server 8.0, 5.7, and 5.6

CONTRIBUTION OF MY PROJECT TO THE REAL WORLD-

Our present modern information system makes use of computers for the execution, each of them connected through an optimized network. Healthcare is the most critical aspect of our society, and many health care providers face challenges to offer practical and active services to patients.

Considering a multi-speciality hospital, many people enter and exit the hospital in a day and maintaining their records safely is tedious. To reduce this type of burdens and to manage the financial, hospital administration and clinical aspects, Hospital management system came into existence.

Apart from that automating your hospital's processes and implementing them cannot be done too easily, you need an efficient hospital management system to take care of everything that is happening around the labs and hospitals.

Processing Speed and Results:

Hospital management system (HMS) follows the standard operating procedures, and there are no chances for deviation to happen in any of the effective HMS systems. With the implementation of HMS in your labs or hospitals, you will be able to treat patients with a better way and accessing their real-time reports and other information regarding the patients, and their past clinical data and more can be done quickly and lead to best patient outcomes. Hospital management system makes employees work more accessible and improve the speed of the complete processes for better results.

Cost Effective:

HMS information system helps to track and control finances, reduce leakages as well as reduce manual work and therefore there is no requirement of the higher human workforce.

Hospital management system helps to cut down the manual work done by humans in the hospitals especially for the peoples who take care of the record and documentations safely. Hospital management system helps in reducing the human resources costs as most of the work is automated.

Reduction in Errors:

Hospital management system will help in reducing different types of errors that made through interventions like missing billing, operational failure, clinical errors, cost leakages, missing appointments and much more.

Every process on the hospital management system is automated, and there are plenty of tasks provided to the software to perform without the human intervention as well as accurately, this reduces the error significantly.

If your hospital is not HMS enabled then you need to go with manual entries which involves too many human errors, so preferring HMS will make your billing section easier, faster, accurate and more transparent.

Data Security and Retrieving Ability:

In a hospital management system, they are one of the cloud-based software where everything gets interlinked, and therefore there are no chances for breaches to occur as they have high data security.

Evidence-based medicine requires the retrieving ability as well as data ability mandatorily, and this easily achieved through a hospital management system. If you have Hospital management system on your hospital, then you can easily access the operational, clinical and financial data of your hospitals.

Quality and Compliance:

Every hospital should send a report of birth, and death occurred, their reasons and related solutions to the NABH accreditation monthly. It's difficult to arrange them manually so preferring the best HMS helps you to send the reports faster and at the right time frame.

Every report is monitored and managed in the Hospital Management System carefully and efficiently for the accurate results.

Every one prefers HMS for their hospitals for coordinated and rapid care, reduced costs, reduced waiting time and readmission, enhanced patient safety and clinical care.

REFERENCES/BIBLIOGRAPHY-

- Text book - Class XI and XII – Computer Science with Python by Preeti Arora
- Google.com - For any online queries