

Survey Report on Hospital Management System

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ABSTRACT

An organized computer system designed and programmed to manage the day-to-day operations and activities of the hospital is known as a hospital management system. Inpatients, outpatients, records, database treatments, illness status, and pharmacy and laboratory billings can all be examined by the program. Additionally, it keeps up with the clinic's data, For example, WARD ID, Specialists IN Control AND Office Overseeing. The primary issue that patients face today is not being able to access their report when they are outside of the hospital, despite the fact that many hospitals keep reports in their systems. We will provide the additional facility necessary to store the report in the database and make it accessible from anywhere in the world as part of this project.

Keywords:-IoT, Python, Angular Embedded System.

INTRODUCTION

The integrated software known as the Hospital Management System (HMS) oversees clinic workflows from a variety of perspectives. It oversees smooth healthcare performance in addition to exercising administrative, medical, legal, and financial control. that serves as a cornerstone for the facility's successful operation. gone are the days, when hospital management system used to be used only for user registration. nowadays, with the growth of connected world & advancement of it, hospital management system evolved into system of various sub-systems and modules interconnected with each other as well as to government registry for her and other records.

Many important daily processes can be automated using the Clinic Management System, provided that each stage implementation is accurate and precise. The medical clinic framework programming covers the administrations that bind together and improve on crafted by medical

care experts as well as their cooperations with patients. The system can always be customized with a wide range of features. In addition, their primary purpose is to streamline a variety of procedures to meet the requirements of all users. The focus of the hospital management system feature list is on making patients, staff, and hospital administrators' experiences as smooth as possible. Even though their expectations may appear to be different, hospital information system components still cover them. Quality and safety are still the most important criteria in the medical field. Patients' satisfaction and the efficiency of medical services both benefit from frequent and rapid changes. Hospital management has undergone significant transformation over the past few decades. The implementation hospital management system project needs healthcare knowledge, connected device experience, mobile application experience, and business experience. Patients now have access to a greater variety of medical specialists thanks to an increase in the number of healthcare

providers. For the convenience of both parties, the interactions between the hospital and patient can be simplified. There is an opportunity for each institution to create a health care model that is quick, clear, and effective.

Literature Survey

As stated by Aronson et al. al., (2003) Hospital management necessitates focusing on the intersection of ethics and economics, technology, and a complex set of consumer needs and expectations. Managers of hospitals are responsible for leading and motivating employees, ensuring that patients receive high-quality care, and increasing efficiency. Without staff, a hospital may not function effectively. The mental health professionals are in charge of providing the hospital's services. (carecentre.dtw.d.wa.gov.au) Mental health workers are in charge of providing

assistance and services to people and their families who are dealing with mental illness. They might discover that they are consistently interrupted and have to quickly assess situations in order to respond appropriately. It is never an easy job to work in mental health. You will be given a lot of time and effort. In addition, it necessitates patience and comprehension in order to progress with your patient. Additionally, there are circumstances in which you must sacrifice family time. Their approach to their patient determines their relationship with them. Numerous factors may influence their work performance.

Design & Coding

We are design system in IoT based system using python and angular provide good UI so that any person can handle system.

TESTING

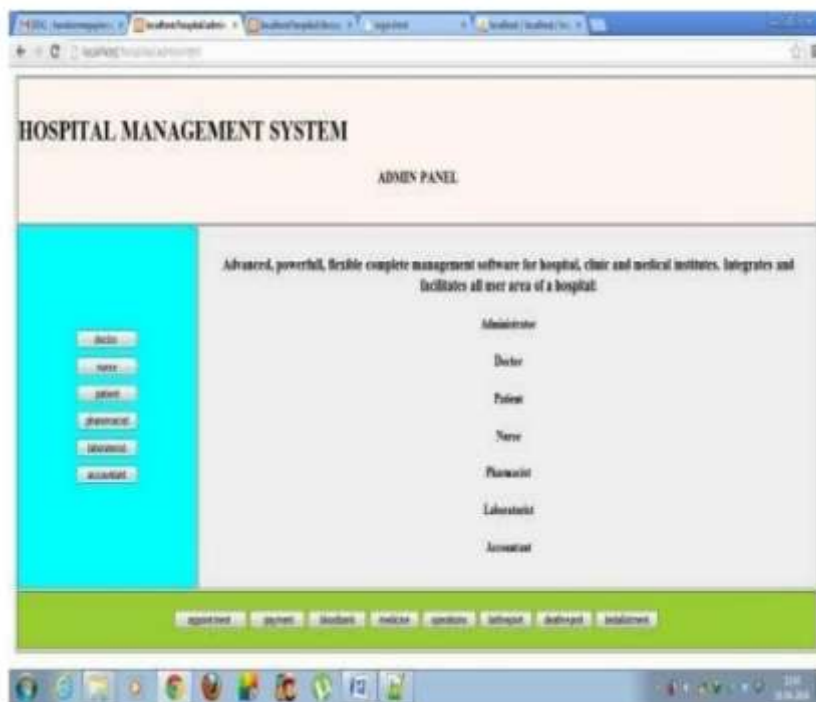
Test Case For Login Form:-

S. No.	Test Case	Description	Input	Expected output	Result	Test Status
1.	Username	The username set should be entered	Id type: Text form	Username to be displayed and should not be empty	"Matched"	Pass
2.	Password	The password entered	Password type: text "text" form	"Login to the system should not be empty	"Login Successful"	Pass

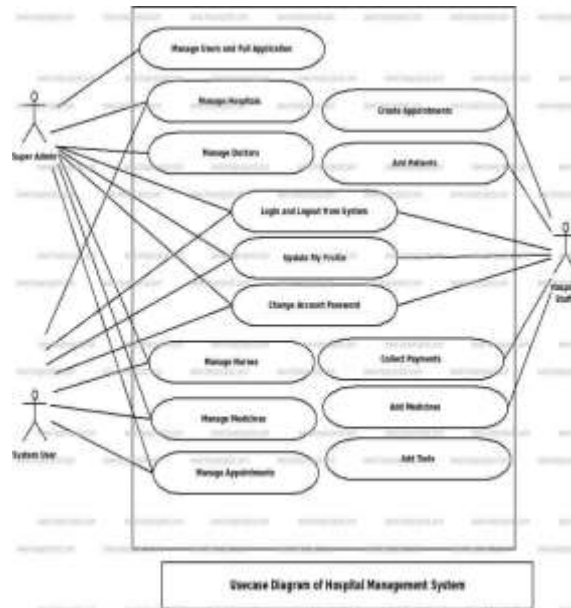
Test Case for Patient Form:-

S.No	Test Case	Description	Input	Expected output	Result	Test Status
1	S.No	The S.no of patient to be entered and unique S.no to be entered.	Type : Number	The s.no should be unique for every patient and should not be in text	The record to be saved in database	Pass
2	Name	The name of the patient to be admitted	Type : Text form	Name to be displayed and should not be empty	The record to be saved in database	Pass
3	Address	The address of patient to be entered	Address Type : Alphanumeric	Address to be taken by the system	The record to be saved in database	Pass
4	Contact	The contact number of patient	Type : Number should only numeric values	Contact no. to be taken	The record to be saved in database	Pass
5	Age	The age of patient to be entered	Type : Text value will not be accepted	Age should be displayed and should not be empty	The record to be saved in database	Pass
6	Date Admitted	The date of admission of patient	Type : Date text value should not be entered	Date of admission to be displayed	The record to be saved in database	Pass
7	Date Discharged	The date of discharged of patient	Type : Date	Date of discharged to be displayed	The record to be saved in database	Pass
8	Bill Status	The bill status to be paid	Should be checked whether paid or not paid	Bill status to be shown	The record to be saved in database	Fail

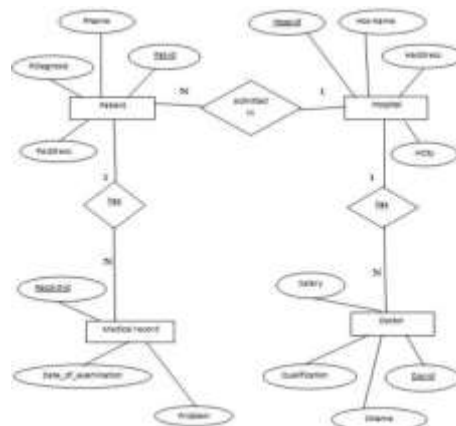
Design Views:-



Use Case Diagram:-



ER Diagram:



CONCLUSIONS

We can draw the conclusion that a hospital management system is a necessary component of the modern medical institution's lifecycle after taking into account all of the aforementioned factors. It facilitates user interaction and automates numerous day-to-day tasks. Fostering the emergency clinic framework programming is a chance to make the particular, effective and quick conveying medical services model, the organization of the supply chain, the management of resources and finances, and the promotion of hospital services. This beneficial decision simplifies interactions between patients, staff, and hospital administrators and addresses their

requirements. It became the standard method for running the hospital. Numerous clinics have already discovered its benefits and continue to create new hospital management project modules.

REFERENCES

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