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HOSPITAL MANAGEMENT SYSTEM

Hospital management system is a computer system that helps manage the information related to health care and aids in the job completion, of health care providers effectively. They manage the data related to all departments of healthcare such as clinical, financial and laboratory. The hospital system software covers the services that unify and simplify the work of healthcare professionals as well as their interactions with patients. The hospital management system feature is concentrated on providing smooth experience for patients, staff and hospital authorities.

Objectives of the management system

- Improve processes
- Staff interact
- Facility management
- Insurance claims processing
- Patient self service
- Better customer experience

Components

We have three main actors in our system:
- Medical Staff: Mainly responsible for the delivery of health care services to the patient
- Patient: Someone who needs medical attention
- System: Mainly responsible for booking of appointments, storing of hospital's data, etc.

Functional Requirements

- The system will be used to control patient flow. It can be used to register them, get the data of the patients' health condition, view the treatment and check the medical history and reports.

- Appointment module in hospital management system will arrange the schedule of doctors due to the patients' application. It will help to organize the availability of medical specialists at any convenient time. Some hospital can even offer remote visits when you need an immediate assistance.

- The facility management system will be responsible for tracking and maintaining the room availability, the occupancy status as well as various kinds of administrative documentation.

- Hospital management system will control the amount of clinic inventory. Thus, entire supply chain will be automated for the convenience of the staff that can concentrate on the patients' need firstly.

- Hospital management system will make provision for the human resources administration. It will update the job description of employees, updates the hospital structure and track the recruiting records.

- Accounting module in the software will organizes the financial affairs of both customers and the medical institution. It will store and present all the patient payment details, hospital financial records on expenses and overall profit.

- Insurance module in the software can record patients' insurance details. It includes the policy number, the insurance company, and information about their policies.

- Medicine management module in the software will contain the list of drugs that will be used for a specific patient's treatment. It keeps records of every patient's drugs used during their treatment.

- Lab management module in the system will test results of the particular patient. The lab data can be viewed by the staff and generated for the patients' reports. It is usually integrated with other hospital information system modules for the better overall functionality of the system.

- Report management part stores the already processed detailed information. This module helps management collect, analyze and view the performance data in a comprehensive format. The business intelligence subsystem helps define problematic aspects and successfully eliminate them to keep the business profitability as well the high customer satisfaction level.

- Helpdesk support module specializes in handling different issues, problems, and requests. It ensures that the operations are maintained properly, the data is valid and reported in accordance.

Non-functional requirement

- The system should be able to Improved Processes
- It will be able to Digitize medical records
- It will be able to Staff interaction
- The system should be able to Facilitate management
- It will have Financial control and tax planning
- It will have a Market strategy
- The system should be able to process Insurance claims
- The system should have a Less time consuming
- It will have a Patient self-service
- Lastly, the system should have a better customer experience