DESIGN AND IMPLEMENTATION OF A HOSPITAL DATABASE MANAGEMENT SYSTEM (HDMS) FOR MEDICAL DOCTORS

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We need change in our hospital that is why database management system is needed in the hospital.

This paper is aimed at designing an automated system that will alleviate the problem of handling patients data in a hospital.

Many hospitals are still adopting the manual system of hospital management. This method of hospital management have continued to pose a lot of setbacks, and problems to medical practitioners, nurses, patients and other staffs both private and government hospitals.

Thus, a good example of the hospital is Our lady Hospital in Owerri.

Doctors needs to access patient records, patients need to access their information via the net.
MANUAL METHODS OF FILING
PROBLEMS AND WEAKNESS OF THE CURRENT SYSTEM

Cost of buying equipment like the steel cabinet, etc
Insecurity of files.
Files can get missing during transit
To fully automate the operation of the hospital
- Improve and standardize practice planning and efficient and communication skill in the hospital.
- Achieve good computing skills for management
- To provide timely access to patients and personnel records.
REASON FOR NEW SYSTEM

This system is justified based on the cost of running the manual system compare with the one of the automated system. It offers the hospital on management issue and provides bases for large database, accuracy of information and exposes the user to the knowledge of computing.
It is to automate the operation and management of our lady of mercy hospital. The system to develop will have the following modulus:-

- Administrative module
- Reception module
- Medical Doctor Module
- Pharmacy module
- Nurse module
The system requirement is the software and the hardware. It also requires networking devices that will enable connection within a local area network (LAN).

SOFTWARE REQUIREMENT
The software requirements are basically for both the server and client. The server side requires Window Apache MySQL whereas the clients require only the web browsers.
IBM Intel or Microsoft compatible computers. A hard disk capacity of at least 2 GB, random access Memory (RAM) size at least 64MB. Pentium II of speed at least 26Hz, Laser Jet/Desk jet Printer, CD/DVD writers, CD ROMs for backing up files or DVD ROMs, A switch that connects all the client computers to the server, and network cables that connect all the hospital units to the server.
The system of the hospital database management system was developed with the procedure of system development life cycle (SDLC).

The system has been analyzed in terms of the problem and setbacks facing it.
There should be backups for all files for security reasons. Each office should have its own computer with a large memory to run the program. Each of the offices should be networked in order to reduce the need to be moving files from one office to another and also to save time.

Uninterruptible power supply (UPS) with Inverter should be provided for every computer to reduce the rate for hard disk or system failures.

Adequate power generating means should be provided to meet up with demands.
In conclusion, there is need for hospitals to change to automated system of filing.