

DAYANANDA SAGAR UNIVERSITY



A Web Programming Synopsis

ON

“Hospital Management System”

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

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ABSTRACT:

The purpose of the project entitled as “Hospital Management System” is to computerize the Front Office Management of Hospital to develop software which is user friendly simple, fast, and cost effective. It deals with the collection of patient’s information like add patient, update patient, delete patient, search patient, view patient diagnosis, etc. Traditionally, it was done manually. The main function of the system is register and store patient details and doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully. The Hospital Management System can be entered using a username and password. It is accessible by an Admin, Doctor & Receptionist. Only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast.

PROBLEM STATEMENT:

Lack of immediate retrievals: -

The information is very difficult to retrieve and to find particular information like- E.g. - To find out about the patient's history, the user has to go through various registers. This results in in convenienceand wastage of time.

Lack of immediate information storage: -

The information generated by various transactions takes time and efforts to be stored at right place.

Lack of prompt updating: -

Various changes to information like patient details or immunization details of child are difficult to make as paper work is involved.

Error prone manual calculation: -

Manual calculations are error prone and take a lot of time this may result in incorrect information. For example calculation of patient's bill based on various treatments.

Preparation of accurate and prompt reports: -

This becomes a difficult task as information is difficult to collect from various register.

INTRODUCTION:

The Hospital Management System can be entered using a username and password. It is accessible by an Admin, Doctor & Receptionist. Only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast. Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals.

The project Hospital Management system includes registration of patients, storing their details into the system by using database. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff manually. Admin can view availability of a doctor and the details of a patient using the name, id.

Hospital Management System is designed for multi specialist hospitals, to cover a wide range of hospital administration and management processes. It also aims at providing low-cost reliable automation of the existing systems. The system also provides excellent security of data at every level of user-system interaction and also provides robust & reliable storage facilities.

SOFTWARE AND HARDWARE REQUIREMENTS:

HARDWARE:

i3 processor-based computing or higher

Memory: 4 GB RAM

Hard drive: 50 GB

SOFTWARE:

Code editor: Visual studio code

Operating System : Windows or Linux

Backend: sqlite, python

Frontend: Django, HTML, CSS, Java script

CONCLUSION:

Since we are entering details of the patients electronically in the "Hospital Management System", data will be secured. Using this application we can retrieve patient's history with a single click. Thus processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and thus reduces the human effort and increases accuracy speed.