

**Hospital Management System Project Proposal**

**ABSTRACT**

Mostly hospitals currently use a manual system for the management and maintenance of critical information. The current systems require numerous paper forms, with data stores spreads throughout the hospital management infrastructure. Often information is incomplete or does not follow management standard.

A significant part of the operation of any hospital involves that acquisition, management and timely retrieval of great volume of information. This information typically involves;

Patient personal information and medical history, and also staff information, ward scheduling, staff scheduling, clinical services, doctor channelling and various types of other facilities. All of this information must be managed in an efficient and cost-effective way.

So, if the resources may be effectively utilized HMS will automate the management of the hospital making it more efficient and error free.

**Background Information**

Hospital Management system is a computerized system designed and programmed to deal with day to day operations taking place. The program can look after inpatients, outpatients, records, database treatments, status illness, billing in the pharmacy and labs, clinical services etc. it also maintains hospital information such as ward id, doctors in charge and department administrating. The purpose of this project is to computerize the front office Management of Hospital to develop software which is user friendly, simple and cost-effective. It deals with the collection of patient’s information, diagnosis details etc.

**Project Description**

Hospital Management System is powerful, flexible, easy to use and is designed and developed to deliver real conceivable benefits to hospitals and clinics and more importantly it is backed by reliable and dependable. This system is designed to multi-specialty hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital Management System that provides relevant information across tahe hospital to support effective decision making for patient care, hospital administration and critical financial accounting.

The software is for the automation of Hospital Management.

It maintains two levels of users: -

* Administrative level
* User Level

The Software includes: -

* Maintaining Patient details.
* Providing Prescription, precautions and advices.
* Providing and maintain all kinds of tests for a patient.
* Billing and Report generation

**Project Scope**

The proposed software product is the Hospital Management System (HMS).

The System will be used to get the information from the patients and then storing that data to get the information from the patients and storing that data for future usages.

The Current System is a paper-base System. It is too slow and cannot provide updated lists of patients within a reasonable time frame.

The intentions of the system are to reduce over-time pay and increase the number of patients that can treated accurately.

Requirements statements in this document are both functional and non-functional.

**Project Challenges**

Design and Implementation

Once the software requirements have been analysed and specified the software design involves in technical activities- design, coding, implementation, and testing which are required to build and verify the software.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Implementation is the stage where the theoretical design is turned into a working system.

The system can be implemented only after through testing is done and fit it is found to work according o the specification. The implementation phase comprises of several activities. The required hardware and software is carried out.

**Maintenance**

The maintenance phase focuses on change that is associated with error correction, adaptations required as the software’s environment evolves. Changes are encountered during the maintenance phase are

* Correction
* Adaptation
* Enhancement
* Prevention

**Requirements of the Project**

**User interfaces:-**

Input from the user will be via keyboard and mouse pount and click.

The user wil navigate through the software by clicking on icons and links.The icons will give appropriate responses to the given input.

**Hardware Interfaces: -**

* Operating System- Windows
* Hard Disk- 1TB
* RAM- 8GB
* Processor – i5

**Software Interface-**

* Angular Version 9
* CSS
* Bootstraps
* IDE-Visual Studio Code
* MS SQL Server

**Communication protocols and Interfaces**-

This project can compatible with all platforms. Project supports all types of web browsers.

**Conclusion**

* The System was designed in such a way that future modifications can be done easily.
* Automation of the entire system improves efficiency.
* It gives appropriate access to the authorized users depending on their permissions.
* It effectively overcomes the delay in communications
* Updating of Information becomes so easier.
* System security, data security and reliability are the striking features.
* The system has adequate scope for modification in future if it is necessary.