

MINI PROJECT SYNOPSIS

*On*

# **HOSPITAL MANAGEMENT SYSTEM WEBSITE**

*To be submitted by*

**SUJAL JAIN(2000300100236)  
&  
VIVAAN LAKHOTIA(2000300100262)**

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## **ABSTRACT OF THE PROJECT**

- The purpose of Hospital Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.
- Hospital Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.
- Hospital Management System is an organized computerized system designed and programmed to deal with day-to-day operations and management of hospital activities. The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy, and labs.

## **NOVELTY**

1. The main objective of this website are reduced human intervention for paperwork, less paperwork, reduced staff headcount for jobs that can be easily managed with this website.
2. The Website has a very interactive user interface and is convenient to use.
3. Search all doctors with specialization and get appointment instantly online from anywhere
4. The User Interface of the website and it's backend working has been made strong enough to cope up with low internet speeds.

# INTRODUCTION

- Hospital Management System website is a project which aims in developing a computerized system to maintain all the information of hospital entities.
- It has a facility of admin login through which the admin can monitor the whole system.
- Patients are find doctors and applied for appointment and Lab test.
- Overall this project of ours is being developed to help the hospital administration, maintain the hospital management in the best way to possible and also reduce the human effort.
- The main objective of this website are reduced human intervention for paperwork, less paperwork, reduced staff headcount for jobs that can be easily managed with this website.

## **OBJECTIVES**

- The main objective of this website are reduced human intervention for paperwork, less paperwork, reduced staff headcount for jobs that can be easily managed with this website.
- Our project Hospital Management system includes registration of patients, storing their details into the system, and also booking their appointments with doctors.
- The main objective of the Project on Hospital Management System is to manage the details of Hospital, Doctors, Patient, Employee, Test. It manages all the information about Hospital, Medicine, Test, Hospital.
- Also patient can appointment for their lab test.

## PROPOSED METHODOLOGY

- With this website, user will be able to take appointments from the website at the location where user wants to book his appointment. The user will be able to have hassle free bookings with the option of emergency booking.
- Login authentication for user to book appointments of lab tests and doctors.
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- XAMPP is a software distribution which provides the Apache web server, **MySQL database (actually MariaDB)**, php and Perl (as command-line executables and Apache modules) all in one package. It is available for Windows, MAC and Linux systems.
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- The user will be able to see the pictures and reviews of hospitals if he/she wishes to book the appointment.
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- There will be a number of hospital available in the database and the user can pick any hospital and book an appointment.

# **LITERATURE REVIEW**

- One of the major challenges existing hospital management systems face is around operational efficiency and wait times between different processes, departments and persons. This paper highlights such limitations of existing systems and proposes a RFID(Radio Frequency ID) and wireless sensor based , location and information management framework that facilitates real time tracking of hospital assets, personnel and patients as they move through pre-set procedures as part of daily activities of the hospitals.
- The author of this paper focuses more on needs of hospital manager and the ecosystem in which he/she operates. The internal and external Environment shaping factors ESFs that bear an impact or association on daily hospital activities and decision making process that the hospital manager has to go through in each situations.
- Some of the challenges that this ecosystem needs to work on are high demand pressure, greater customer satisfaction level and low profit margins. This paper more so contributes to Planning, Design and development aspects of any Hospital management system by highlighting ESFs that should be considered.



## **GAP ANALYSIS**

- The Website named 'Hospital Management System' is in development stage, currently.
- It can show the patient data records and lab test record through patient module, Patients can see all the details by using patient id logging.
- In further development stages, it will also have Doctors and patient appointment online will be made available in the website.
- In coming updates, the website will also include emergency appointment and Payment method.
- Further, every bug and issue will be resolved, if any arises.

# **SCOPE OF PROJECT WITH HARDWARE AND SOFTWARE REQUIREMENTS**

## **FUTURE SCOPE:**

This website involves almost all the basic features of the online searching of doctors and appointment management.

Hospital Management System is an organized computerized system designed and programmed to **deal with day-to-day operations and management of hospital activities**. The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy, and labs

## **HARDWARE AND SOFTWARE REQUIREMENTS:**

### **HARDWARE:**

- LAPTOP/DESTOP PC
- LASER PRINTER(B/W)
- WI-FI ROUTER

### **SOFTWARE:**

- VISUAL STUDIO CODE  
NOTEPAD++
- CHROME OR ANY OTHER BROWSER
- XAMPP SERVER (X-operating system, Apache, MySQL, PHP, Perl)

## **MAIN FUNCTIONALITIES OF PROJECT**

- The hospital management system website tracks the number of available doctors and their working hours. This allows to have the accurate schedule of each employee, manage your facility abilities and the supply chain in order to meet all the needs of the patients. It helps to arrange the appointments for both the staff and patients' convenience.
- Doctor timetables and scheduled appointments. Allows doctors to plan and browse their timetables. Also allows sharing such information with patients in order to make an appointment.
- Patient admittance information. This function collects and maintains an Electronic Medical Record after the person is admitted to the hospital. This module also communicates with other medical databases in order to retrieve and update a patient's complete Electronic Health Record.
- Scheduling is a continuous process in a hospital. So to manage it, patient charts and doctor availability time is crucial to be provided on time.
- Handle your orders, automate report generations, enable smart notifications. Further, switch to analytical reports with an online Hospital management system.

# TIMELINE

❖ **REQUIREMENT:** 1<sup>st</sup> week of October

❖ **DESIGN:** 2<sup>nd</sup> week of October

❖ **IMPLEMENTATION:** 3<sup>rd</sup> week of October

❖ **VERIFICATION:** 4<sup>th</sup> week of October

❖ **PRESENTATION:** 6<sup>th</sup> November

# REFERENCES

## Book Referred:

1. Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 by Robin Nixon
2. A beginner's guide to HTML, CSS, Javascript, and Web Graphics, by Jennifer Niederst Robbins

## Websites referred:

1. W3Schools
2. GeeksforGeeks(gfg)



























