

Hospital Management System Using PHP with MySQL

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Abstract: *The purpose of the project "Hospital Management System" is to develop software which is user friendly, simple, fast. This project uses PHP as the front-end software which is object-oriented programming and has connectivity with MySQL. It deals with the collection of patient's information, doctor's information etc. Anyone can access the application from anywhere at any time. The main function of the system is register and store patient's details, doctor details, prescription details and appointment details and retrieves these details as and when required. System input contains patient details, doctor details and appointment details, while system output is to get these details on the screen. Admin having the rights to create doctor, patient details, appointments and queries. These details are secured and only admin can add and delete the details of doctor. The data is well protected for personal use and makes the data processing very fast.*

Keywords: Hospital Management System, Communication, User Friendly

I. INTRODUCTION

The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing of payment with all the details. The software has the facility to give a unique id for every patient and stores the details of every patient and the doctor automatically. It includes a search facility. User can search availability of a doctor and the details of a patient using the number. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. The Hospital management system is an efficient and easy to understand application aimed mainly at hospitals, providing them with the proper function to manage their activities.

1.1 Objective

- The main objective of this project is to manage the records of patients, doctors and appointments.
- Hospitals are essential part of our lives, providing best medical facilities to people suffering from various ailments, which may be due to change in climatic condition, increase work-load, emotional trauma stress etc.
- Our objective is by using the website patient search and view doctors profile and also apply for appointment.
- Reduces the paper work and provide the 24*7 accessible website with user-friendly GUI to manage the records.
- This website project is also become for doctors for viewing details and writes prescriptions to patients.

Functionalities provided by online chat Application are as follows:

- Provides the searching facilities based on various factors. Such as doctor list, patient list, appointment details.
- Hospital Management System manages the doctors, patient and appointment.
- It tracks all the information of patient list, doctor list, queries, appointment details etc.

- The hospital management system enables your medical staff to manage all the essential activities like communication with patient, task execution, and maintaining financial resources.

II. LITERATURE SURVEY

The design of the project is influenced by the paper "Functional Description of Online Medical Management System Using Modern Technology " by Priyanka Patil, Sruthi Kunhiraman, Rohini Temkin VES Institute of Technology, Chembur, Mumbai. The paper by "Intelligent Hospital Management System (IHMS)," by B. Koyuncu and H. Koyuncu" is used to set the kind of tasks to be done and handled. Z. Liu, "Design and Implementation of Hospital Emergency Nursing Information Management System,"

[1] From this paper the idea about the overall design was conceived. GB Koyuncu and H. Koyuncu, "Intelligent Hospital Management System (IHMS),".

[2] From this paper a clear idea of the components to be included into the software solution was taken. Healthcare management system and domain search of nearest Medical services by Ruchi Dumbre, Purva Raut, Bhagyashree mahamuni, Priyanka Khose, Prof. Jagruti Wagh

[3] From this paper the data flow of information in the hospitals was inferred. HOSPITAL MANAGEMENT SYSTEM by Digvijay H. Gadhari, Yadnyesh P. Kadam, Prof. Parineeta

[4] From this paper the idea of securing the login was inferred. From the paper "Quality of information management and efficiency of Hospital employees" by Spamast-Malita, Iteit [5], Information management was inferred. From the paper Olusanya Olamide.O, Elegbede Adedayo. W and Ogunseye Abiodun. A, "Design and Implementation of Hospital Management System Using Java"

[6], Methods and Data Structures were inferred . "Advanced Hospital Database Management System" by Gunjan Yadav, Parth Lad, Parul Pandey Tejaswi Kolla

[7], from this paper the table structure in the DataBase was referred. From this paper, "Design and Implementation of Hospital Management System" by Adebisi O.A, Oladosu D.A, Busari O.A and Oyewola Y.V

[8], some minor details were inferred. Kumar, Prem & Kosalram, Kalpana. (2013).

III. METHODOLOGY

The entire development process has been subdivided into two: the frontend development and backend development. The frontend comprises of the visually visible part such as the home page, admin panel, contact page, Doctor Page. The backend contains the database and its interaction with frontend.

3.1 Frontend Development

The frontend was initially raw coded using JavaScript. JavaScript is a client side scripting language which is a dedicated language of web development. JavaScript code was simply mixed with the Hyper Text Markup Language (HTML) code. Hypertext markup language is the language used to design the web pages of an application. A static page is an HTML document is stored on the web server and does not change.

This was performed by Cascading Style Sheet (CSS). CSS is a style sheet language used for describing the look and formatting a document written in a markup language. These CSS files are linked with the class files with ASP extensions to put the panel in order, the text with correct font, size, and color. JavaScript is client side scripting language most commonly used as part of web browsers and its implementations allow client side scripts to interact with user, control the browser and alter the document content which is displayed. For example, in website for the client's registration, the system asks to provide their details which contain their name, email address, age, etc. If they missed any of the details, then immediately the browser asks them to fill.

3.2 Backend Development

The Database Management System (DBMS) provides support for the backend. The database management system is essentially software where admin can create the database, add, drop, alter and update tables. The tables can hold different types of data. For example: integer, variable character etc. in our application we have chosen the MySQL DBMS to hold the database. MySQL is a relational database management system. The main reason is MySQL development project has made its source code available under the terms of the General Public License (GNU) which is an open source web application.

IV. PROPOSED SYSTEM

The hospital management system is designed for any hospital to replace their existing manual paper based system. The new system is to control, doctor schedules and patient invoices. This services to provide in an efficient, cost effective manner, with the goal of reducing the time and resources currently requires such task.

4.1 Modular Design

The functionality of the proposed application is divided into number of sub modules. The modules to be taken into account are admin module, doctor module, and patient module. These modules while integrated together give the functionality desired out of the application.

The Entire Project Mainly Consists-

1. Admin Module.
2. User Module (Patient Module)
3. Doctor Module.

A. Admin Module

It Manages Doctor List, Patient List, Appointment Details, Prescription List, Manage Doctors.

B. User Module

It registers the patient by using details like first name, last name, email, phone, and password. If the patient has registered already then it can direct login.

C. Doctor Module

It manages the Appointment and gives Prescription list.

V. CONCLUSION

The project entitled "Hospital Management System" is developing using HTML, CSS and Bootstrap a front end and MYSQL database in back end computerize the process of online doctor searching and appointments management. This project covers only the basic features required. This project is all about the modernizing a hospital through use of technology. Computers help in it and take over the manual system for quick and easy functioning.

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REFERENCES

- [1]. BEGINNING PHP 5 ---DAVE MERCER
- [2]. BLACK BOOK HTML ---WILEY DREAMTECH
- [3]. PHP AND MYSQL WEB DEVELOPMENT --- LUKEWELLING,LAURA
- [4]. The joy of PHP Programming: A beginner's Guide ---Plum Island