

A System Using Web Technology for Hospital Management

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ABSTRACT

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This Hospital Management System application includes the registration of patients, the keeping of details in the system, and the electronic payment of pharmacies and laboratories. The software has a unique identifier for every patient and maintains clinical records for all patients and automatic hospital check-ups. It includes a search engine to know the current status of each patient. The user can search for patient information using the Identity. A username and password are required to install the Hospital Management System. This can be accessed either by the controller or the recipient. Data can be added only by the controller or the recipient. Retrieving data is easy. There is a user-friendly interface. Your personal information is well protected and you are able to process it quickly much faster. The aim of this project, entitled "HOSPITAL ADMINISTRATION SYSTEM", is to enable Front Office Management of Hospital to develop a computer system to develop software that is easy to use, fast and inexpensive. Responsible for Data collection about patients, diagnostics, etc. are typically conducted in person. Main functions include registering and maintaining patient and physician information and to download such information if required, as well as to manipulate the information in a logical manner Display. You will need a username and password to install the Hospital Management System.

Keywords: Artificial Neural Network, Convolution Neural Network, Pooling, Dataset Generation, Text to Sign to Sign, Hand Detection, Feature Extraction, Machine Learning, speech-to-text, gif, machine translation, python3, speech recognition, environment - language processing

I. INTRODUCTION

The Hospital Management System project includes the registration of patients, keeping their details in the system, and electronic payments at pharmacies, and labs. The software has a unique identifier for every patient and automatically stores the details of each patient and staff. Includes search area to know the current status of each room. The user can search for doctor's availability and patient details using the identity.

This powerful, flexible, and easy-to-use Hospital Management System has been designed and developed to make hospitals' lives significantly easier. Multi-specialist hospitals can manage a wide range of hospital processes with the Hospital Management System.

Integrated Hospital Management System (IHMS) provides relevant information to support effective patient care, hospital management, and critical accounting throughout the hospital systematic manner.

Hospital Management System is a software product suite designed to improve the quality and management of hospital management in the field of clinical process and cost-based analysis. The Hospital Management System enables you to improve your organization and improve its efficiency and quality of work. Proper management of the processes that are essential to the success of the hospital helps you to manage your processes.

II. METHODS AND MATERIAL

SYSTEM DESIGN:

UML Design:

Integrated Modelling Language (UML) is a common language for defining, visualizing, constructing, and documenting a software system and its components.

Graphic language, providing vocabulary information and a set of semantics and rules. UML focuses on the psychological and physical representation of the system. It makes decisions and insights about plans to be developed. It is used to understand, design, edit, store, and manage information about programs.

UML is a visual language Creative Explicit Writing.

Visualization

With UML we see or visualize an existing system and finally visualize what the system will be like after launch. Unless we think, we cannot do it. UML helps visualize, how system components connect and interact with each other.

It is clear Specification means building, accurate, complete and complete UML models address the specificity of all critical analysis designs, implementation decisions that need to be made to develop and deploy a software system.

Construction

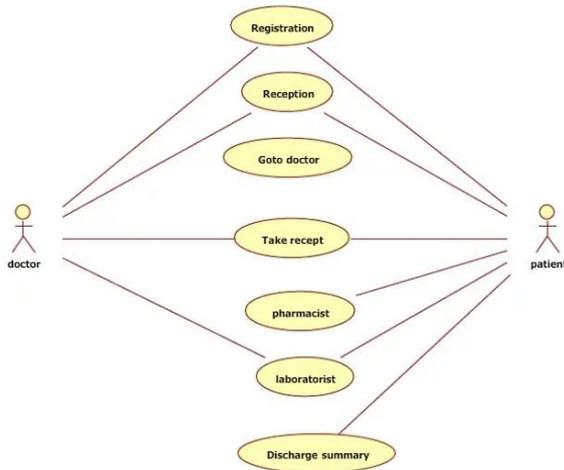
UML models can be directly linked to a different programming language by mapping a model from UML to programming language such as JAVA or C ++ or VB. Forward Engineering and Reverse Engineering are possible via UML.

Writing texts What the project brings without coding is another Artifacts, which are important for managing, evaluating and communicating the system between its growing needs, structures, ambition, source code, project plans, tests, prototypes, etc.

USE CASE DIAGRAM:

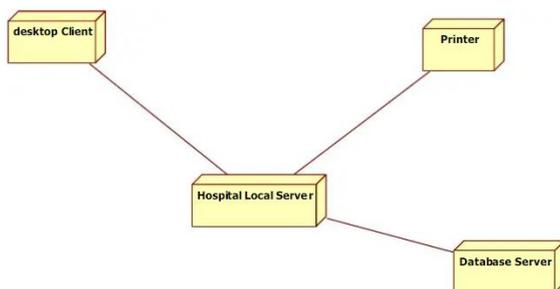
The Comprehensive Case Model (UML) application diagram is a type of behavioural diagram that is defined and created from the analysis case application. its purpose is to present a clear view of the performance provided by the system according to the players, their objectives (expressed as operating conditions), and any dependencies between those operating conditions.

III. MODULES



Application Drawing

shows the configuration of processing nodes and components. Distribution drawings speak to the idea of a fixed supply of buildings. They are related to component drawings in that the node usually covers one or more sections.



Regional chart diagrams:

The shape diagram shows the shape of an object and represents functions such as arrows that connect regions. Work sketch highlights activities. Each function must be a small round rectangle that is more oval than the state icon. The arrow represents the transition from one activity to another. The sketch of the work has the first place represented by a completed circle, and the last place represented by the bull's eye.

- Every project in particular has 7 modules, which is
- Director module
- User module (patient)
- Doctor module

Management module:

- Manage hospital department, user, doctor, nurse, pharmacist, laboratory accounts.
- See medical appointments.
- View patient payment reports.
- View performance report.
- View the birth report.
- View diagnostic report.

User (patient) module:

- View the list of appointments and status with the doctor.
- View medical information.
- Look at prescription drugs.
- See a list of doctors.
- View performance history.
- View the history of positive things.
- Manage your profile.

Physician module:

Treat the patient. account opening and renewal.
Ala Create, manage an appointment with a patient.
Create a patient book.
Patient performance story and creates performance report.

IV. DESCRIPTION OF REQUIREMENTS

1. Hardware Requirements:

The most common set of requirements defined by any application or software program for virtual computer applications, also known as hardware. The list of hardware requirements is usually accompanied by a

list of compatible hardware (HCL), especially in the case of operating systems. HCL lists tested, interactive and sometimes incompatible hardware resources for a particular application or application. The following paragraphs discuss various aspects of hardware requirements.

CURRENT DEFICIENCY PROJECT REQUIREMENTS:

PROCESSOR: Intel dual Core, i3
RAM: 1 GB
HARD DISK: 80 GB

2. WOMEN'S NEEDS:

Software Requirements address the requirements of the software application as well as the prerequisites required to be installed on the computer in order to provide the full functionality of the application. These prerequisites or requirements are usually not included in the software installation package and need to be installed separately before the software can be installed.

SOFTWARE REQUIREMENTS FOR CURRENT PROJECT:

PROGRAM: Windows 7 / XP / 8
FORWARD: Html, CSS, java script.
SERVER-SIDE SCRIPT: PHP
DESCRIPTION: MySQL

V. EXISTING SYSTEM

Currently, hospitals are using a manual system for managing and storing vital information. Presently, the hospital management infrastructure requires multiple paper forms, and multiple data stores. There is often insufficient or inaccurate information. follow management standards. Forms are often lost when

moving departments that require a thorough audit process to ensure that no important information is lost. Many copies of the same information are available at the hospital and may lead to data fraud in various information stores.

1. PROPOSED PROGRAM:

A Hospital Management System is designed to replace a hospital's existing paper-based system. Patients' information is managed through a Hospital Management System. Schedules, operating room invoices, and staff availability are all managed by this system. In order to reduce the time and resources required for such activities, these services need to be delivered effectively, economically.

2. PERFORMANCE STUDY

The feasibility of a project is assessed at this stage and the business proposal is made with the most common project plan and specific cost estimates. During the analysis of the plan a feasibility study of the proposed system will be conducted. This is to ensure that the proposed system is not a burden to the company. In order to analyse the feasibility, some understanding of the major system requirements is essential. The three key considerations involved in a possible analysis are:

A. Economic viability

This study was conducted to look at the economic impact it would have on the system it would have in the organization. The amount of fund that a company can invest in research and program development is limited. Expenses must have a reason. Thus the system improved and within budget and this was achieved because most of the technology used is available for free. Only custom-made products should be purchased.

B. Technical Performance

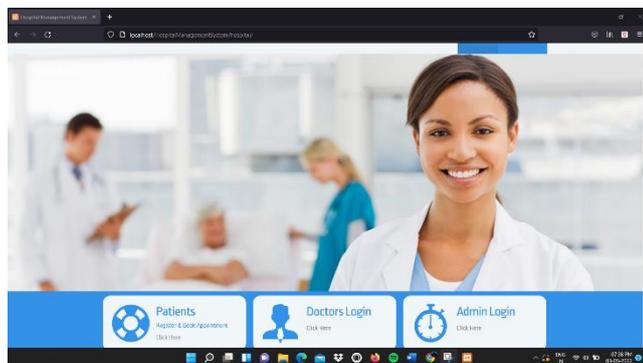
This study was conducted to assess the feasibility of technology, that is, the technical requirements of the system. Any upgraded system should not have a high demand for available technical resources. This will lead to higher demands on the consumer. The upgraded system should have moderation, as only minor or minor changes to implement the system.

C. Performance Possibility

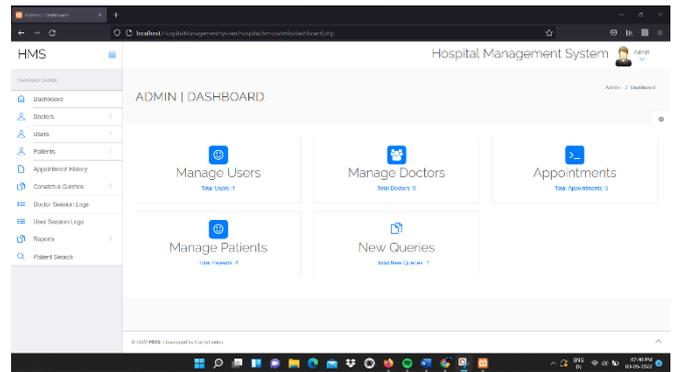
A feature of the study is to assess the level of system acceptance by the user. This includes the process of training the user to use the system effectively. The user should not feel threatened by the system, but should accept it as a necessity. The level of user acceptance depends only on the methods used to educate the user about the system and get him or her familiar with it. Her self-esteem needs to be raised so that she can also make constructive criticism, which is acceptable, as she is the one who uses the latter system.

REAL SCREENS :

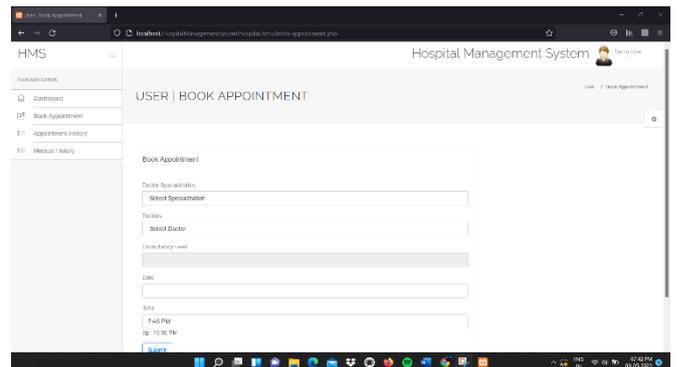
LOGIN PAGE:



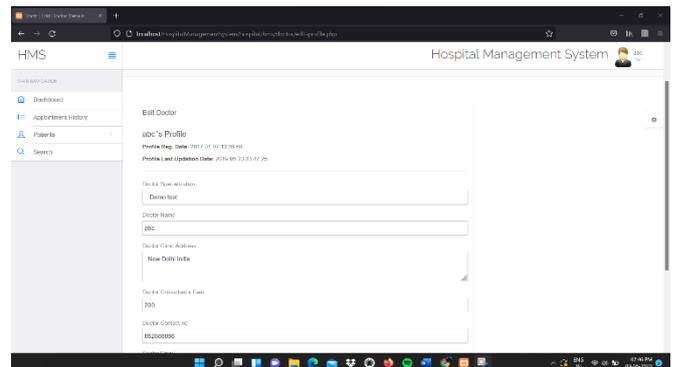
ADMIN DASHBOARD:



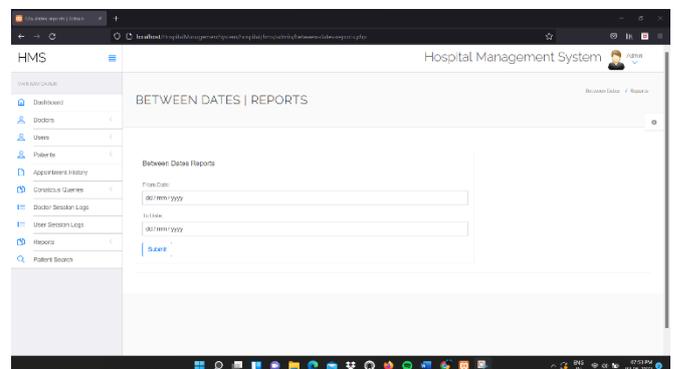
APPOINTMENT BOOKING DETAILS:



DOCTOR PANEL



REPORTS DATES:



VI. RESULTS AND DISCUSSION

Medicine has been revolutionized by the IT system. Multi-specialty hospitals are a daunting task in this fast-paced world of medicine. Management of the functioning of a hospital or medical setup is facilitated using a system using web technology for hospital management system (HMS).

VII. CONCLUSION

As we enter patients' information electronically into the "Hospital Management System", the information will be protected. By using this application, we can retrieve patient history with a single click. Therefore, processing information will be faster. Ensures accurate record keeping of patient information. It easily reduces bookkeeping activity and thus reduces human effort and increases the speed of accuracy.

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