SYNOPSIS

Report on

Doctor Appointment Booking

by

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ABSTRACT

The purpose of Doctor Appointment System is to automate the existing manual system by the help of computerized equipment's 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.

Doctor Appointment 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.

The aim is to automate its existing manual system by the help of computerized equipment's 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. Basically the project describes how to manage for good performance and better services for the clients.

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INTRODUCTION

Introduction of Project Doctor Appointment System

The "Doctor Appointment System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Doctor Appointment 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 inbetter utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Appointment, Doctor, Booking, Test, Medicine. Every Doctor Appointment System has differentDoctor needs, therefore we design exclusive employee management systems that are adapted to yourmanagerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

Literature Review

Abstract

This article provides a state healthcare with multi-appointment management.

In such issues, patients in hospital environment need to vi sit various resource forms sequentially so that they can undergo or be diagnosed with medication. Therefore a particular route over a subset of the assets deemed is allocated to each patient and each move needs to be planned. The primary objective of these problems is to allow the services in their subset to be visited by each individual within the allocated Additionally, hospital with appointment scheduling, hospitals have the occasion to supplement patient fulfilment, allowing the enduring to appointment the hospital less repeatedly. A classification proposal projected and categorize on hospital

Introduction

An on-line clinical appointment is a web utility that permits the patient to book schedule via online registration. A best convenience way that logging on is a simple way of lifestyles. Patient takes recourse to on-line procedure for a safer, handy and easier manner of lifestyles. Itis tough to manipulate the sufferers via way of means of direct paper based work. For the last decade, the fitness care has emerge as the maximum critical healthcare carrier in lots of developing countries .It is tough to obtain appointments via way of means of direct contact to the hospital and lineup in an exceedingly queue, the maximum idea of this task is to induce schedule via on-line utility which solves the issues to the patients. With this utility the obstacle to the patients are decreased which contains the print of the physician and their available time. It is a solution for the doctors and patients as a result they can schedule their own time.

Digvijay et.al [1] the administration of emergency clinic to create programming which is more clears by the client and play

out the basic and quick. It incorporates the assortment of patient subtleties and specialist subtleties .The framework stores all information and recovers when required .The emergency clinic the board framework can be entered by utilizing client name and secret key which gotten to by a chairman the information will be secured securely for any utilization .The medical clinic the board framework is important to store the patient subtleties specialist subtleties and staffs and so forth Subsequently by these venture the work become simple and spares part time.[2] If we need to visit a specialist for exam we need to stand by until the specialist accessible and get arrangement as the portable innovation is creating it is simple to get arrangement from specialist. The portable application acknowledges arrangements by sparing the records of the arrangements which is connected with schedule. The client gets notices dependent on the present indicated time before thearrangement . This application is simple and neighborly with client reason. Here the administrator will deal with the specialist and patient subtleties. IrinSherly S [3] online arrangement fixing and booking framework is by a patient can straightforwardly approach the site or web application and interface with the specialist by the online programming framework. The patient can book their arrangement as per their helpful time. The patient can pick their great specialist and book arrangement.

Online arrangement reservation and planning framework can help the patients, the specialists, and the workplace staffs by decreasing their time. It tends to be effortlessly performed by utilizing PCs and making an arrangement, as opposed to setting off to the hospital. Tufail maryam[4] shows The clinical arrangements were taken by visiting the clinic and holding up in the line up to our turn. Once in a while it gets disturbance to the patients. The development of online arrangement framework offered immortal and proficient admittance to medical care administrations. With this shrewd application we can get crisis medical checkups .Here individuals can pick specialists and in close by medical clinics. We can get this arrangement effectively through our mobiles and with this savvy application we can pare our time Godphrev G Kvambille and Khamisi Kalegele[5] the arrangement booking framework is a portable application that incorporates the efficient for There will be no deficiency of time if the versatile based application is utilized. The versatile based application takes into consideration 24 hours for advantageous planning of patients. The tolerance can be shown up in explicit time for seeing the specialist Or maybe

sitting tight for a more extended time.[6] numerous patients will misfortune the medical checkups and it squander persistent time presently in this advanced and driven society we can get medical checkup through internet booking framework. With this application you can pick specialist yourself in this application you can get insights concerning specialist and medical clinics. With this patient can deal with their own arrangements. They will be reminded by a SMS/E-MAIL before their arrangement date. This sort of capacities will diminish the wastage of arrangements. In crisis cases we can book arrangements without any problem. It spares season of patient and specialist. Nazia S and Ekta Sarda [7] shows that online arrangement framework is a framework which a patient can without much of a stretch admittance to the site and book their arrangements. In this way the patient can give the extra data to the specialist when they shows up and giving the specialist time to set up the fundamental data along these lines online arrangement framework can support the staffs and

The explanation behind creation the online arrangement planning is to help the patients and the regular checkups in a simpler manner. It endures the PC, access a site and makes an arrangement, than to go to the clinic and sit tight for a long time in queue.S. Sri Gowthem and K.P. Kaliyamurthie[8] brings that Patient enrollment framework in the majority of the medical care establishments is completed utilizing paper arrangements, and appearance of patients to medical services hangs tight the patients for quite a while in a line this happens when reservation is made in paper structure. Keen arrangement reservation framework for patient can be totally done through a web based planning programming. It insights concerning the medical clinic and patient data through a single site and gives a simple method to booking an arrangements as per the patient accommodation.[9] This is a brilliant wellbeing medical checkup framework incorporates enlistment of patients.

Framework of Hospital Management System

A clinical framework the specialists and patients are brought to one spot which is dealt with by administrator and the administrator permits patients to enlist and look for the specialists basing on the area the rundown of specialists will be appeared and patient can book by choosing the schedule openings and the administrator will affirm the booking so everything is modernized a done exceptionally quick which will spare time. Here my primary care physician proposed framework is consists of into 3-stages.

- Patient enlistment framework
- Doctor
- Administration

Patient Registration System

The patient requirements to enroll and sign in the wake of entering he can look for the specialist by giving the area, the explanation or issue. Basing on the specialist accessibility the administrator will affirm the booking demand and will ship off mail that the booking is affirmed.

Doctor

Specialist should be enlisted by giving the essential subtleties like planning, charges and so on Subsequent to enrolling he have to sign in. He can see the patient solicitation sent from administrator and he can acknowledge and he can likewise see the input given by patients.

DOCSYS Administration

Administrator can see the enrolled specialists and patients. He can additionally see the patient's solicitation and specialists' solicitations and he will affirm the patients and specialists demands.

Features of Hospital Management system

Hospital management system (HMS) is a computer framework that makes a difference oversee the information wellbeing care and helps within the work completion of good care supplier successfully. They oversee the information related to all offices of healthcare such as.

- Clinical
- Financial
- Inpatient
- Outpatient
- Laboratory
- Operation theatre
- Radiology
- Pathology

Laboratory Pharmaceutical

HMS appears in early 1960 synchronizing with the real system while modified the healthcare services. HMS was presented to comprehend the complications coming from overseeing all the paper works of each quiet related with the different divisions of hospitalization with secrecy. HMS gives the capacity to oversee all the printed material in one put, diminishing the work of staff in orchestrating and analysing the printed material of the patients. HMS does numerous works like:

- Preserve the restorative records of the patient
- Maintain the contact points of interest of the patient
- Keep track of the arrangement dates
- Save the protections data for afterward reference
- Tracking the charge payments
- The points of interest of HMS can be pinpointed to the following:
- Time-saving Technology
- Improved Effectiveness by dodging human errors
- Reduces scope for Error
- Data security and rectify information
- · Cost successful and effectively manageable
- Improved quiet care made possible
- Easy checking of supplies in inventory
- Better Audit controls and strategy consistence.

Highlights of Hospital Management System

Table 1: Hospital Management System.

Arrangement Management	For emergency clinics having their own site, arrangement gadgets will be coordinated onto the site. Patients visiting the medical clinic's site can book online meetings effortlessly.			
Charing Management	Coordinated Billing with medicines, Lab and Radiology. Cautions will be sent on Discount authorisation.			
Solution Management	Oversee usually and as of late utilized meds. Choice to show meds accessible in the drug store. SMS remedies to Patients.			
Release Summary	Layout based Discharge Summary. ICD10 coordination. Alternative to forestall release synopsis till IP bill is shut.			
Activity Theatre Management	Programmed warning can be shipped off clients on test outcomes. Lab warnings like email, SMS of the test reports sent from the Automated Lab notice module.			
Drug store Management Lab Management	Complete Pharmacy Management handles stock, Prescription Integration, Ward Request, Stock Management, Stock Moment and canny reports.			
	Exhaustive Lab Management handlestotal request the board, Custom			
	Reports, Smart Notifications, Credit Settlement, definite MIS Reports, Analytics and App for Phlebotomist.			
Expert Information Systems	Let's you access whole MIS information from your palm.			
Deal with Multiple Locations	Quite a few branches can be added and overseen utilizing a solitary record.			

Advantages of Hospital Management System

We have so far explained on the significance of HMS, it is your obligation to select the correct sort of HMS for your requirements and purposes. Here we give more data on the advantages of different HMS and the effect it makes on clinic frameworks.

Simple Patient information recovery

HMS makes it conceivable to get to all the information identified with a patient through a framework by the methods for a couple of basic snaps. Data like patient history, current sickness, specialists included, tests reports taken, charging data and a lot more can be made obvious to the client. This information will assist with drawing an obvious conclusion about the patient, similar to explicit finding, related treatment, and drug.

The Electronic Medical Record (EMR) or Electronic Health Record (EHR)

This electronic-based clinical record framework can be seen as a patient's wellbeing outline. It recovers data dependent on the

patient's name or clinical record number or the doctor's record number.

Expanded Data security

The patient information can be guarded a hundred percent by utilizing HMS in your medical clinic. It tends to be made open by just a restricted measure of approved staff. With HMS, all the information is put away on a worker or cloud and remained careful by making sure about the login data safe.

Improve Visibility and Transparency

Medical clinic Management System (HMS) improves the deceivability and straightforwardness in the total administration measure and in all records.

Smooth out Accurate Reporting

It helps in smoothing out the precise detailing with the assistance of refreshed and exact records.

Improved Quality Control

Emergency clinic Management System improves the quality control on the items and administrations of the emergency clinic.

Improved Management Visibility

It additionally improves the administration deceivability of emergency clinic, all data, and information with respect to the patient, specialist and medication could be seen by any division without any problem.

Simplicity to Access System Facilities

Medical clinic Management System makes it simple to gain admittance to the administration framework offices for the approved clients and protect it from unapproved clients.

Savvy

HMS spares time in the emergency clinic as well as is savvy in diminishing the quantity of individuals dealing with the arrangement of manual section of information and administrative work. The execution of His will diminish the human mediation into the framework along these lines keeping away from human-caused mistakes.

Table 2: Features of online hospital appointment system.

Advantages	Disadvantages	
This scheme assists reduction inwaiting time.	Internet connection is essential	
Patient can modify the time slot according to his convenient.	Database storage required is very high.	

Hospital appointment system does numerous works like:

- Preserve the restorative records of the patient
- Maintain the contact points of interest of the patient
- Keep track of the arrangement dates
- Save the protections data for afterward reference
- Tracking the charge payments

Conclusion

A summary of hospital appointment was presented in this pap er. In these method the patient need not to go hospital for booking. The patient only need internet for booking purposes and hospital individual doesn't have direct contact while booking. Both of them can adjust their schedule time through online. The system get rid of the issues appeared during traditional booking system. This paper provides a clear understanding of online schedule of patients coming to the hospital. The various paper published in this area is listed with their advantages and drawback. This review is helpful for the researcher working in this field.

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Project Objectives

The main objective of the Project on Doctor Appointment System is to manage the details of Doctor, Appointment, Patient, Booking, Medicine. It manages all the information about Doctor, Test, Medicine, Doctor. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Doctor, Appointment, Test, Patient. It tracks all the details about the Patient, Booking, Medicine.

Functionalities provided by Doctor Appointment System

- Provides the searching facilities based on various factors. Such as Doctor, Patient, Booking, Medicine.
- Doctor Appointment System also manage the Test details online for Booking details, Medicine details, Doctor.
- It tracks all the information of Appointment, Test, Booking etc.
- Manage the information of Appointment
- Shows the information and description of the Doctor, Patient
- To increase efficiency of managing the Doctor, Appointment.
- It deals with monitoring the information and transactions of Booking.
- Manage the information of Doctor.
- Editing, adding and updating of records is improved which results in proper resource management of doctor data.
- Manage the information of booking.
- Integration of all records of Medicine.

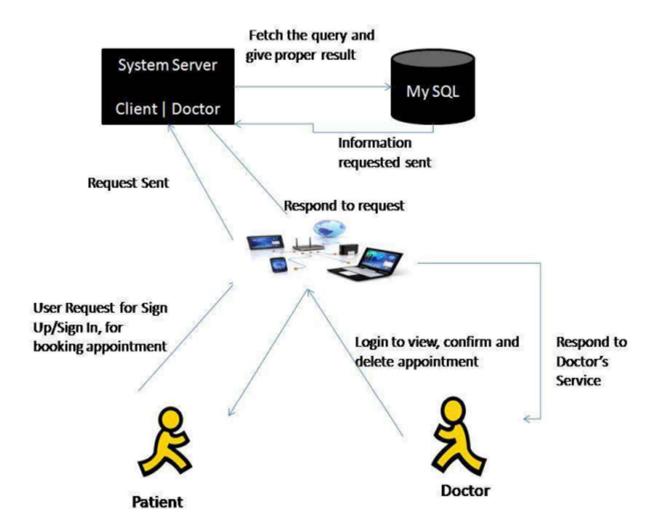
Scope of the project Doctor Appointment System

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Doctor Appointment System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e. we have tried to computerize various processes of Doctor Appointment System.

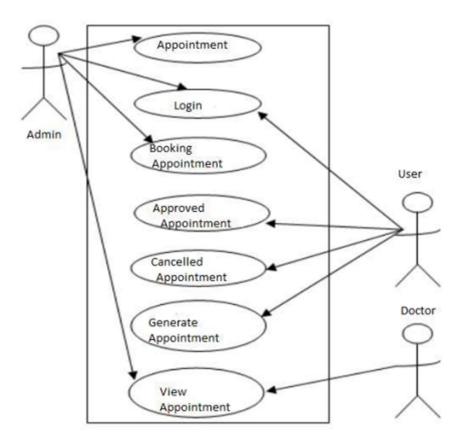
- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- It satisfy the user requirement
- Be easy to understand by the user and operator
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget.

PROJECT METHODOLOGY



MODULES DESCRIPTION

- Doctor Module: Used for managing the Doctor details and checking appointments appointed to doctors.
- Medicine Module: Used for managing the details of Medicine and the medicine prescribed to patients
- Test Module: Used for managing the details of Test and test reports which is prescribed to patients by the doctor
- Appointment Management Module: Used for managing the information and details of the Appointment.
- Patient Module: Used for managing the Patient details and patient appointment history
- Booking Module: Used for managing the appointment booking information and appointment details of the patients
- Login Module: Used for managing the login details
- Users Module: Used for managing the users of the system



TECHNOLOGIES / SOFTWARE REQUIREMENTS

Language	React JS, Java		
Database	MySQL Server		
Browser	Any Browser		
Scripting Language Enable	Node JS (Node JavaScript)		
Database JDBC Driver	MySQL Jconnector		

HARDWARE REQUIREMENTS

Name of component	Specification
Processor	Pentium 4 or Above
Ram	4 GB
Hard disk	20 GB
Monitor	15" color monitor
Keyboard	122 Key

FUTURE SCOPE

Future Scope of the Project:

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for Doctor Appointment System including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Doctor and Appointment. Also, as it can be seen that now-a-days the players are versatile, i.e. so there is a scope for introducing a method to maintain the Doctor Appointment System. Enhancements can be done to maintain all the Doctor, Appointment, Patient, Booking, Medicine.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.

OUTPUT/REPORT

- It generates the report on Doctor, Appointment, Test.
- Provide filter reports on Patient, Booking, Medicine.
- You can easily export PDF for the Doctor, Test, Booking.
- Application also provides excel export for Appointment, Patient, Medicine.
- You can also export the report into csv format for Doctor, Appointment, Medicine.

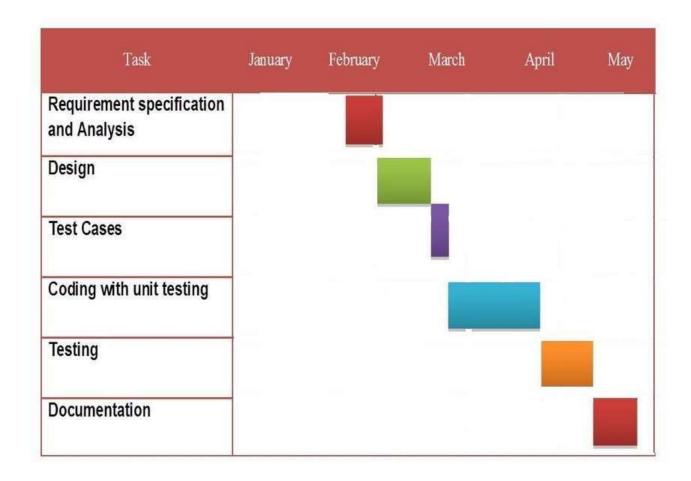
CONCLUSION

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points...

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interface and security issues related to system.
- Finally the system is implemented and tested according to test cases.

Gantt Chart- Proposed Time Duration



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