**ONLINE APPOINTMENT MANAGEMENT SYSTEM**

1. **ABSTRACT**

Online Doctor appointment System in hospital today necessitate a competent administration when handling patients, generating reports for cashier, patient details which serves as a key factor for the flow of business transactions in Hospitals.

Aim of this project is to create doctor patient handling management system that will help doctors in their work and will also help patients to book doctor appointments and view medical progress. The system allows doctors to manage their booking slots online. Patients are allowed to book empty slots online and those slots are reserved in their name. The system manages the appointment data for multiple doctors of various date and times. Each time a user visits a doctor his/her medical entry is stored in the database by doctor. Next time a user logs in he may view his/her entire medical history as and when needed. At the same time a doctor may view patient’s previews medical history while the patient visits him.

The method used to develop the system include iterative water fall model approach, dataflow, logical and entity relationship diagram where used to design the system and finally the language used MySQL, C# & ASP.Net.

An appointment system was designed to minimize the doctor idle time but current designing of an appointment system is based on decisive factors with respect to both the patient and doctors. The patient appointment system has complex structures because it represents the patient appointment time in the healthcare center and controls the patient waiting time based on the type and the period of patient appointment.

1. **INTRODUCTION**

The Online Appointment Management 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 carryout 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.

Online appointment 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 record keeping. Thus it will help organization in better utilization of resources.

Our main focus is to make peoples life easier in the hour of need. We are working to design such a system that will reduce a lot of paperwork and save peoples time.

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.

**2.1 Objective of the project**

The main objective of the project on online appointment manage system is to manage the details of doctor appointment patient, booking, medicine. It manages all the information about doctor. Test, medicine, doctor. 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 medicines.

Patient need not wait in Hospital for so long time. Patient can come in the stipulated time in which he/she booked their doctor appointment. In this process Patient is more comfortable to visit the Hospital.

**2.2 Functionalities provided by the project Online Appointment Management System**

* Online Appointment Management System provides the searching facilities based on various factors such as patient, doctors, tests, treatments
* It also manages details online for patient, doctors, tests, treatments
* It tracks all the information of patient, doctors, tests, treatment etc.
* It manages the information of patient
* It shows the information and description of treatments
* To increase the efficiency of managing the tests
* It deals with monitoring the information and transactions of payment
* Manage the information of booking
* Editing, adding and updating of records is improved which results in proper resource management of Online Appointment System data
* Manages the information of appointment
* Integration of all records of patient

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1. **SURVEY OF TECHNOLOGIES**

**3.1 ASP.NET:**

ASP.NET is an open source, server-side web application framework created by Microsoft that runs on Windows and was started in the early 2000s. ASP.NET allows developers to create web applications, web services, and dynamic content-driven websites.

ASP.NET is written using Object Oriented Programming languages such as C# or VB.net. Object Oriented Programming provides a framework and patterns for code organization and reuse. While VB.net is a holdover from Microsoft’s legacy Visual Basic product and has largely fallen out of favor among developers, C# is a first class programming language and consistently ranks among the world’s most in-demand and most-used programming languages.

It was created to facilitate the development of distributed applications in structured and object-oriented manner by separating the presentation and content and hence write clean code. ASP.NET uses the code-behind model to generate dynamic pages based on Model-View-Controller architecture.

They have some the major differences from ASP, an earlier version of ASP.NET. The object model of ASP.NET has thus significantly improved from ASP, which makes it fully backward compatible to ASP.

ASP.NET works with the Internet Information Server (IIS) to deliver the content in response to client requests. While processing the requests, ASP.NET provides access to all .NET classes, custom components and databases, similar to that of a desktop application.

Web forms are the building blocks of application development in ASP.NET. They provide lot of flexibility by allowing controls to be used on a page as objects. These controls can handle events such as Load, Click and Change, similar to those in desktop applications. Other than Web forms, ASP.NET can be used to create XML Web services that can allow building modular, distributed web applications, written in any language. These services are interoperable across variety of platforms and devices.

**3.2 MySQL:**

MySQL is an open source relational database management system (RDBMS). MySQL is software under the terms of the GNU General Public License and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation).

MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. MySQL is used by many database-driven web applications, including Asp.Net, MVC. MySQL is also used by many popular websites, including Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

MySQL is connected with web applications through MySQL Connector. We need to install MySQL Connector in the system where we are building ASP.Net applications.

We can use nugget packages to download and reference MySql.Data dll (package) with the web applications which are interacting with database.

MySql.Data dll (package) helps web application to make connections with database through MySqlConnection class which creates connection object and then create command object through MySqlCommand class.

1. **REQUIREMENT AND ANALYSIS**

**4.1 Hardware requirements:**

Processor: Intel Core i5 -7200 CPU @ 2.5GHZ or more

RAM: 2GB or more

Hard disc: 500GB or more

Monitor: 15” color monitor or advance

Keyboard: Any keyboard

Mouse: Any mouse

Printer: In case of printing reports

**4.2 Software requirements:**

Operating System: Windows7/10

Browser: Google Chrome, Mozilla, Internet Explorer

Frontend: ASP .NET

Backend: MYSQL version 5.6

1. **CONCLUSION**

The proposed Online Appointment System has been implemented for application development and it is developing using ASP.NET and MYSQL. The tasks involved in this work are divided into modules. The proposed system is efficient and has friendly user interface. The admin would be able to use the app for managing the details of patients and the doctors. A payment or some amount may be charged to the users while making an appointment to avoid the unethical users. As many users only register themselves without any concerns.

**6. REFERENCES**

**Books** **:**

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