**ONLINE APPOINTMENT MANAGEMENTSYSTEM**

**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.

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.

**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 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 medicines.

**FUNCTIONALITIES PROVIDED BY THE PROJECT ONLINE APPOINTMENT MANAGEMENT SYSTEM**

* Provides the searching facilities based on various factors. Such as doctor, patient, booking, medicine
* Online Appointment Management System also manage the Test, 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 booking.
* Manage the information of doctor
* Editing, adding and updating of Records is removed which results in proper resources management of Doctor data.

**REQUIREMENT AND ANALYSIS**

**Hardware requirements:**

Processor: Pentium III 630MHZ or more

RAM: 128MB or more

Hard disc: 20GB or more

Monitor: 15” color monitor or advance

Keyboard: Any keyboard

Mouse: Any mouse

Printer: In case of printing reports

**Software requirements:**

Operating System: Windows7

Database: SQL

Browser: Google Chrome

**TOOLS DESCRIPTION**

**FRONT END : JAVA**

**BACK END : ORACLE**

**About Java:**

**Java** is a general-purpose computer-programming language that is concurrent, class-based, object-oriented, and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of computer architecture. As of 2016, Java is one of the most popular programming languages in use, particularly for client-server web applications, with a reported 9 million developers. Java was originally developed by James Gosling at Sun Microsystems(which has since been acquired by Oracle Corporation) and released in 1995 as a core component of Sun Microsystems' Java platform. The language derives much of its syntax from C and C++, but it has fewer low-level facilities than either of them.

The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun relicensed most of its Java technologies under the GNU General Public License. Others have also developed alternative implementations of these Sun technologies, such as the GNU Compiler for Java (bytecode compiler), GNU Class path (standard libraries), and Iced Tea-Web (browser plugin for applets).

The latest version is Java 10, released on March 20, 2018, which follows Java 9 after only six months in line with the new release schedule. Java 8 is still supported but there will be no more

security updates for Java 9. Versions earlier than Java 8 are supported by companies on a commercial basis; e.g. by Oracle back to Java 6 as of October 2017 (while they still "highly recommend that you uninstall" pre-Java 8 from at least Windows computers)

**About Oracle:**

Oracle database (Oracle DB) is a relational database management system (RDBMS) from the Oracle Corporation. Originally developed in 1977 by Lawrence Ellison and other developers, Oracle DB is one of the most trusted and widely-used relational database engines.

The system is built around a relational database framework in which data objects may be directly accessed by users (or an application front end) through structured query language (SQL). Oracle is fully scalable relational database architecture and is often used by global enterprises, which manage and process data across wide and local area networks. The Oracle database has its own network component to allow communications across networks.

Oracle DB is also known as Oracle RDBMS and, sometimes, just Oracle.

Oracle DB rivals Microsoft’s SQL Server in the enterprise database market. There are other database offerings, but most of these command a tiny market share compared to Oracle DB and SQL Server. Fortunately, the structures of Oracle DB and SQL Server are quite similar, which is a benefit when learning database administration.

* Oracle DB runs on most major platforms, including Windows, UNIX, Linux and Mac OS. Different software versions are available, based on requirements and budget. Oracle DB editions are hierarchically broken down as follows:
* Enterprise Edition: Offers all features, including superior performance and security, and is the most robust
* Standard Edition: Contains base functionality for users that do not require Enterprise Edition’s robust package
* Express Edition (XE): The lightweight, free and limited Windows and Linux edition
* Oracle Lite: For mobile devices

A key feature of Oracle is that its architecture is split between the logical and the physical. This structure means that for large-scale distributed computing, also known as grid computing, the data location is irrelevant and transparent to the user, allowing for a more modular physical structure that can be added to and altered without affecting the activity of the database, its data or users. The sharing of resources in this way allows for very flexible data networks whose capacity can be adjusted up or down to suit demand, without degradation of service. It also allows for a robust system to be devised as there is no single point at which a failure can bring down the database, as the networked schema of the storage resources means that any failure would be local only.

**CONCLUSION**

The proposed online appointment system has been implemented for application development and it is developed using Java and Oracle. 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 the patients and the doctors. A payment or some amount may be charged to the users/patients while making an appointment to avoid the unethical users. As many users only register themselves just for fun and has no concern by making an appointment. Some more future directions are the improvements in the patient’s module which includes setting reminders for the appointments and saving the appointment date to the calendar.

**REFERENCE AND BIBLIOGRAPHY**

* Google & Wikipedia for problem solving

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