



COLLEGE MANAGEMENT SYSTEM

MOHAMMAD AEJAJ SIDDIQUI

Publics Guide

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ABSTRACT

Main aim in developing “College Management System” is to provide an easy way not only to automate all functionalities of a college, but also to provide full functional reports to top management of college with the finest of details about any aspect of college. College Management System is software has the perspective of attaining attraction of those colleges which don’t have one good performing software for keeping their information secure and make their management easier. College Management System provides one attractive environment where you can manipulate data and information about students and staff easily. So we can say the Core purpose of designing “College Management System” is to manage the task related to the college students/employees and to reduce time to searching of appropriate candidates in college view.

INTRODUCTION

This system provides the detail structure of the college campus and its departments. **College Management System** synchronizes the working of all the departments. It looks on all aspects of a college, its students, faculties, Departments, marks and other co – curricular activities. CMS is the easiest way to manage all functionalities of a college. It is a value-added service offered by Neural, which facilitates colleges to

maintain the functionality related to college employees and their students. College Management Software is a simple yet powerful one joint integrated platform that connects all the various departments of an institution like Administration, Attendance, Staff details and many more specialized modules

CURRENT SYSTEM

College management software is prepared to maintain the day to day operations in a leading college. This software helps them to maintain the student and employee records. So the maintain becomes easier. This is of generic type software, suitable to all colleges. This software has all the modules to manage college transactions. Separate division is provided to maintain admission process. Student management, Employee management etc. At present in colleges all records maintained manually. There are thousands of students joining each year. As the year's goes then number of students also get increases, for the staff to maintain all these students' records is very tedious and time consuming. Update fee, test marks, test result all these need to be done in time to achieve college management need to be recruit more peoples. To solve this problem this project is prepared which help the management to maintain the records accurately

FEATURES OF JAVA:-

Simple

Java was designed to be easy for the Professional programmer to learn and to use effectively. If you are an experienced C++ Programmer. Learning Java will oriented features of C++. Most of the confusing concepts from C++ are either left out of Java or implemented in a cleaner, more approachable manner. In Java there are a small number of clearly defined ways to accomplish a given task.

DATA FLOW DIAGRAMS

A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. A full description of a system actually consists of a set of data flow diagrams. The development of DFD'S is done in several levels. Each process in lower level diagrams can be broken down into a more detailed DFD in the next level. The lop-level diagram is often called context diagram. It consist a single process bit, which plays vital role in studying the current system. The process in the context level diagram is exploded into other process at the first level DFD Theoretical framework

For further research we have adopted a Four-Factor theoretical frame work based up on which we proceed our work. The theoretical frame for this master thesis would be

underpinned by the theory put forward by Chris Brenton, (2003), according to whom in his Article of “Mastering Network Security” he uses the theory of Daniel Buttafogo and Larry Drexler, Who says that “Detection is considered in two perspectives, from the Point-Of-Sale (POS) and the Internet”

ADVANTAGES

- Our project provides secure access of confidential data.
- It becomes easy to manage the records.
- Provide managed authority control.
- Availability of data on a click.

MODULES AND THEIR DESCRIPTION

The main modules involved in this system are:

1. Login
2. Forms
3. Reports
4. Window

ABOUT JAVA

Java is an object-oriented programming language developed by Sun Microsystems. Initially the language was called as “oak” but it was renamed as “java” in 1995. The primary motivation of this language was the need for a platform-independent (i.e. architecture neutral) language that could be used to create software to be embedded in various consumer electronic devices.

- Java is a programmer’s language
- Java is cohesive and consistent
- Except for those constraint imposed by the Internet environment. Java gives the programmer, full control

Finally Java is to Internet Programming where c was to System Programming

TABLES

A table is a collection of data about a specific topic, such as products or suppliers. Using as separate table for each topic means you store that data only once which makes your database more efficient and reduces data entry errors. Table organize data into columns and rows. In table datasheet view, you can add, edit or view the data in a table. You can also check the spelling and print your tables’ data filter or sort records change the datasheet’s appearance or change the table’s structure by adding or deleting columns. You can create an entire table from scratch, or add, delete, or customize an existing table’s field.

NEED FOR COMPUTERIZED SYSTEM

The main drawback of the existing system is that manual work leads time consumption. It affects the all person of management and also the departments. There is number of day-by-day transactions and hence the large number of register have to the kept to circulation, which have to the stored. Also large numbers of register have to the kept to the store. This document is required more storing space, more manpower and job become tedious. Sometime gathering of all documents is a tedious job.

In this system process of summary report in main part, using the computerized system this process is become simple and small. You can immediately getting the report for the query. You can get this all report or summary for the previous year. Various years. Various details have to the providing to the management at any time

SYSTEM ATTRIBUTES & QUALITY CHARACTERISTIC

Security: The system is designed keeping in view that chances of unauthorized use are made negligible. In the design depending upon the user, they are entitled with specific required right only. Only the Administrator will be able to create new users. He is the only person having full access of main database. As security is a crucial characteristic, it is treated according in this system.

Portability: The designed system must operate on different version of OS viz. Windows 98, NT, XP etc. Proper care is taken at the time of design and coding so that it will execute and run property. To assure portability of the system, backward compatibility up to a certain level will also be maintained.

Reliability:

Following tests will be performed to assure reliability of the system.

Simulation Test.

- Memory Test.
- Path Test.
- Loop Test.
- Random Data Test.
- OS Compatibility Test.

Hardware Compatibility Test

BENEFITS

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.
- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can say that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time then manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency.

LIMITATIONS

- The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.

CONCLUSION

This Desktop application provides easy way to manage Inventory. This application developed is designed in such a way that any further enhancements can be done with ease.

This application is going to be used for our college to easily manage document. So, we are happy to develop this desktop application as it provides all the requirements of our college.

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