STUDENT MANAGEMENT SYSTEM BY C++

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ABSTRACT

The Student Management System Project as the name suggests that it will be used to manage student records will be used for a variety of purposes. Receiving the right data will result in the desired production in the appropriate format without delay. This program is therefore enabled by data verification testing during data entry and before saving it to a specific file. Students will also be able to check their data and modify their basic information according to their needs. Since each institution has a different department that will use student records to do their job, therefore coordinating work and sharing information in the department can be easily achieved. Only the administrator will have the authority to make changes and modifications while using this system. Administrators will be able to perform tasks such as adding student records, modifying and deleting existing records, allowing the authority to access a certain level of student information through various departments. This Student Management System Project project will provide administrator to simplify the audit process and maintain a record of their organizations. To perform administrative work, users must select an administrator panel and provide their id and password to access this section.

The Student Management System Project project works on the concept of a hands-on program while file sharing will be done within the operating department to perform their functions. As the file system was used to keep individual student records, each department should also separate each activity file such as individual student information such as student name, student row, address, my preferred post, address, category, location that student has within the institution.

Keywords-- C++, SQL, ram and hard disk

I. INTRODUCTION

It's a real global problem that overwhelms all ideas and can it be? can we really predict?

A house / home is a basic need for a person and their prices vary from place to place depending on available resources such as parking, space, etc. The price of a house is a factor that worries a ton of residents whether they have a rich or white collar as one cannot judge or measure the value of a house based on the location or offices available. Buying a home is one of the biggest and most important choice for the family as it spends all of their investment money and often incorporates it under the loan. It is a difficult task to predict accurate home prices. Our proposed model will enable us to predict the expected price of housing. This project is intended to predict house prices and get a better and more accurate result. A stack placement algorithm is used in various retrospective algorithms to determine which algorithm has the most accurate and accurate results. This can be very helpful to people because house prices call for a topic that affects many citizens whether rich or middle class as someone who cannot judge or estimate the price of a house on a local basis or resources available. To accomplish this task, a python program language is used. Python is a high-level programming language for the general purpose program. Python was developed especially for easy coding. Python supports various libraries such as Pandas, NumPy, SciPy, Matplotlib etc. Python is a very useful language for web development and programming. It is often used to create web applications. It has been well used to read and translate texts. It can be used effectively to make complex science. After viewing several data sets, this dataset is
available. It is a separate property price database. This database is a learning database of the most popular machines with minor errors.

**Related activities:**
As we have learned in previous lessons, various student management projects are being done to help school and students have better records, they can view record in this system where they have no hesitation in view record and nothing has been lost.

So are the projects that have been done over the years to help those who wish to improve their school management system.

**II. LITERATURE REVIEWS:**

Investigators have developed a Student Management System for the proper management of data identified with students. It is the foundation of an institution or university or college, using a PC, in addition to reducing performance. Student Management System works with a few student-hidden features such as USN, to students internally, internally test marks, parent name, phone number, email-id, date of birth, category, sex and so on. The purpose of furthering this process is to submit a report to in connection with the visit of the fruit of the meeting or in the center of conference. Thus it is considered a common finding for internal examination and it is anything but hard to get a report towards the end. Student details and capabilities are uploaded by the administrator. You will provide a username and password to individual. Staff will review the student's status by setting a present or truant. Take if A student is shocked, a message will be sent to a different parent and an email will be sent to the parent. Finally the last student can view his details, he can take the file report. The Student Management System has four modules. Initially the administrator will log in, entry module. Later he can enter student details, called student details a functional module such as searching, embedding, updating and deleting student data.

**Problem structure and solution:**

This program saves student and administrator time. It includes procedures such as the registration of student information, assigning the department according to their course and record keeping.

This program reduces the cost and personnel required for this job. As the system is online information is available worldwide to everyone. This makes the system easier to manage and works to detect skipping updates at the same time.

As for the existing system, they use to keep their records manually making it a security risk. If a search or renewal application is submitted, it will take a long time to process the query and create a boring work report.

As the system used at this center is outdated as it requires paper, files and connectors, which will require staff to take care of themselves. To enroll in an institution, a student in this system must come to the university.

Get the forms at the counter while you stand in line at the time consuming for the student and the management team. As the number of students increases in the institution, manual management becomes a daunting task for the director.

This computer program stores all the information in a database that makes it easy to download and update when needed.

**III. STUDENT MANAGEMENT MODEL MODULES**

The program has a separate component to process specific modular tasks. This will help the system to grow easily and make it easier to use.

The project modules are:

**Access Module:**

This will help users to sign in to the system using institute id and password. A user with a valid id and password can only log in to their accounts.
It will help authenticate user login. The module provides a layer of security over the system as only authorized personnel can log into the system.

This prevents any anonymous person from accessing the system and misusing records. It is better than the manual method as they do not have a security rating of who can access this program and who can.

**Registration Module: -**

This student module will be enrolled as it is new to the institution. It will be built as a building where all student details will be completed.

It will have fields related to their details such as date of birth and address and that it will also ask for its professional education details if available.

Since this module is available online, the student can subscribe from any available online site. After registration details will go to the administrator for confirmation.

This module will reduce the busy task of taking multiple forms to the facility and completing them carefully because any mistake will lead to the acquisition of new sets of forms.

**Study Module: -**

Each student will be able to choose from a variety of subjects available in the program. It will be published by an administrator under a specific department.

All courses have eligibility criteria, which will be available to those students who qualify. The student will choose a course from the given options depending on his or her interest.

It will be added to their professional details. All courses will be managed by the department assigned by the director.

**Search Module: -**

There will be thousands of students at the center and we think there is a need for information on a particular student. The only information provided for the search is the student's name.

In a hands-on program, it would be disastrous to find a student because it is a very tedious task to do so. But with a computer program administrator you can easily find a specific reader by simply typing a word and clicking the search button.

This module will assist the administrator in searching the student record for conversion and adjustment.

An important business plan that handles student-related information. This is one of the most important qualifications required to enroll a student at an educational institution.

As the student submits his / her personal or professional information he / she will be kept in the business. It has relationships with too many one-degree courses.

As students will be enrolled in a variety of subjects according to their qualifications then a relationship is required between both organizations. There are the following indicators: -

**S_Id:**

The student ID number attribute is a unique number field that will be provided to every student enrolled in the institution. It helps to make every student different from the rest of the program and helps the supervisor.

**Name:**

Student name is student personal information. It helps to make the system better for the user and assists the manager in searching or updating the record.
Section:
Every student is divided into different categories and belongs to the same course. This helps to make the lesson more effective for every student.

Email_Id:
This will save the student's required email from sending an emergency update to a student from the institution.

C_Id:
Many subjects can be selected by the student. Therefore, the most important attribute needed to keep the entire reference id of the subjects the student is enrolled in.

Courses Id therefore belongs to the course company.

Mobile:
Student mobile number is a attribute used as a student contact area.

Address:
This field is a combination of city and pin code. As the address required the full location of the student.

Required tools:-
Operating system:-window, Linux and macos
Languages-c++,sql

IV. COMPLETE WORK PLAN LAYOUT

Step1.
In first module we have studied about how our management system works their architecture and their algorithms

Step2:-
In the second module we have implemented it and the design of our system

In this student management system the admin can update, modify, add the students records and those students who left the institution admin can delete their records
REFERENCES
2. We have taken help from the book of Accelerated C++ and fundamentals of database systems