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RUNNING A COLLEGE: PYTHON PROGRAMMING METHOD

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ABSTRACT: The college administration system (CAS) What needs to be done is to use Python programming to successfully handle and keep track of the numerous academic papers assigned to students currently enrolled at a specific school. Many pieces of information about students, such as personal information, tuition fees, library information, and term grades, are stored, organized, and easily accessible through databases. This reduces the likelihood of data storage errors. Python is the programming language used to power the project. The source code is written using a code tool, such as Visual Studio Code, and is then run in a runtime environment.

Keywords: College Management System, Python Programming, Visual Studio Code

1. INTRODUCTION

The College Management System is a crucial aspect in digitizing day-to-day processes in educational institutions such as colleges and universities. This software is designed to make it easier to obtain and review school information. This project's user input is immediately saved in the database, making it easier to keep track of the students' work. The proposed system is intended to help departments keep track of student records such as personal profiles, payment records, library management, and academic transcripts.

2. METHODOLOGY

To ensure that the project works well, it is critical that the guidelines be followed.

A selection will show when the user clicks on the College option file. This panel will have four buttons, each of which will have a separate function. The Student Information Window can be accessed by clicking on the "View" icon on the STUDENT PROFILE. The window has two primary tabs: "STUDENT INFORMATION" and "STUDENT DATABASE." Each of the six buttons does something different. SAVE, DISPLAY, RESET, UPDATE, DELETE, and EXIT are the system's six buttons. The eight fields on the STUDENT INFORMATION page that can be filled out are Name, Father's Name, Mother's Name, Address, Mobile Number, Email, Date of Birth, and Gender. This has the appearance of a normal paper. In this situation, the user provides information for the relevant factors. After each form is completed and the "SAVE" button is pushed, the information is saved in a database. To show the student information that was submitted into the STUDENT INFORMATION form, select the "DISPLAY" option. The data will then be displayed in the STUDENT DATABASE tab. The "UPDATE" option allows you to alter any information about a child that requires it. After you select the "UPDATE" option and enter the new numbers, the database will be updated. Furthermore, if you select the "DISPLAY" option, the updated numbers will be shown for you to observe. The "RESET" option can be used to clear out any incorrectly entered information and resolve any issues.

The Student Information box will ultimately close when you click the "EXIT" button. You can delete student entries from the database that are no longer needed or were entered improperly using the "DELETE" tool.

The FEE REPORT Window will show when you select "View" from the FEE REPORT menu. The window is divided into two tabs: "INFORMATION" and "FEE RECEIPT." Each of the six buttons does something different. SAVE, DISPLAY, RESET, UPDATE, DELETE, RECEIPT, and EXIT are the system's seven buttons. The INFORMATION tab contains nine fields: Receipt Number, Student Name, Admission Number, Date, Branch, Semester, Total Amount, Paid Amount, and Balance. This has the appearance of a normal paper. The fee record can be found and seen on the "RECEIPT" tab. In this scenario, the user utilizes the appropriate switches to perform a variety of actions based on the information entered into the form. When the "DISPLAY" button is hit, the system displays a complete list of all fees. Similarly, when you click the "RECEIPT" button, the system generates and displays the fee receipt for that student. The functionalities of the buttons indicated above are identical: SAVE, DISPLAY, RESET, UPDATE, DELETE, and EXIT.

When you click the "View" icon in the Library System, the Library Management System Window appears. The window is divided into two sections: LIBRARY MEMBERSHIP INFO and BOOK DETAILS. Each of the six buttons does something different. The six buttons allow you to SAVE, DISPLAY, RESET, UPDATE, DELETE, and EXIT. The "LIBRARY MEMBERSHIP INFORMATION" tab has seven separate things. In these fields, individuals can input their first and last names, location, postal code, phone number, book identification number, book title, author, date borrowed, date due, and number of days on loan. This appears to be a paper template. There are fifteen books in the section titled "BOOK DETAILS." Select one book from the list. In this situation, the user provides information for the relevant factors. After each form is completed and the "SAVE" button is pushed, the information is saved in a database. To view the information regarding a student's stolen book that was submitted into the LIBRARY MEMBERSHIP INFO form, the user must click on the "DISPLAY" button. The facts will then appear on the COLLEGE LIBRARY DATABASE tab. You can make any necessary adjustments to the student's library information by using the "UPDATE" tool. When you enter new numbers and click the "UPDATE" button, the updated information is saved in the database and displayed when you toggle the "DISPLAY" switch. The "RESET" button can be used to correct mistakenly entered data. Users can utilize the "DELETE" tool to remove from the database any student library-related data that is no longer required or was entered improperly. Press the "EXIT" button to exit the Student Information page.

When users of MARKSHEET select the "View" button, they are directed to the Search page. Both "CREATE NEW" and "SEARCH" options are available on this page. The user can retrieve previously recorded information by clicking on the "SEARCH" icon. To enter new information, the user must select the "CREATE NEW" option. When you click the "CREATE NEW" button, the Student Details screen displays. The Student Details window is divided into two sections: GPA and student details. Each of the five buttons performs a unique function. The panel contains five buttons. COMPUTE, SAVE, RESET, UPDATE, and EXIT are the buttons. The "STUDENT DETAILS" tab contains eight distinct fields. Name, Father's Name, Mother's Name, School Name, Roll Number, Email Address, Birth Date, and Gender are the details. This appears to be a paper format. In the GRADE POINT OBTAINED section, the student's grades for the provided areas are recorded. The minimal passing grade and overall score are already established by default. In this step, the user enters information into the relevant fields. After entering all of the required field data, click the "COMPUTE" button so that the total, percentage, and CGPA may be calculated automatically. Following that, the result status is displayed, indicating whether the student received a passing or failing grade, and the database is updated for each entry by pressing the "SAVE" button. You can simply edit a pupil's information by clicking the "UPDATE" button. After you enter the new values and click the "UPDATE" button, the database is updated to include the new values. If you enter wrong information, clicking the "RESET" button will clear it, and clicking the "EXIT" button will close the Student Information box.

3. OBSERVATIONS

CONCLUSION

This project's purpose is to automate the system that is now run by hand. This job is completed using software, thus no physical labor is required. You have the option of remote tracking or remote control. The quantity of manual labor that must be performed decreases. The truth of the information provided is consistent. Using this strategy effectively reduces the number of occurrences of misconduct. It is relatively simple to store and retrieve data about students of all grade levels. The correctness and lack of errors in the data provided by this system are critical elements influencing how vital judgments are made. As a result, the web-based College Management System must be maintained. Everyone in the school, including the administration, teachers, and students, has simple access to the information. This method is used by many colleges, universities, and other educational institutions.

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