

<u>TABLE OF CONTENTS</u>		
<u>SER</u>	<u>DESCRIPTION</u>	<u>PAGE NO</u>
<u>01</u>	ACKNOWLEDGEMENT	<u>03</u>
<u>02</u>	INTRODUCTION OF THE PROJECT	<u>04</u>
<u>03</u>	OBJECTIVES OF THE PROJECT	<u>05</u>
<u>04</u>	SCOPE OF THE PROJECT	<u>06</u>
<u>05</u>	PROJECT PLAN	<u>07</u>
<u>06</u>	FLOW CHART	<u>15</u>
<u>07</u>	HARDWARE AND SOFTWARE REQUIREMENTS	<u>16</u>
<u>08</u>	INSTALLATION PROCEDURE	<u>17</u>
<u>09</u>	CONCLUSION	<u>18</u>

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Our heartfelt thanks to CBSE. We also express our deepest gratitude to our parents. Finally, we would like to wind up by paying our heartfelt thanks to all our near and dear ones.

INTRODUCTION OF PROJECT

I. The main aim of science technology is to ease out our lives. Computer is also gift of science, which also works like a brain, but the manner speed at so many other properties are much more than a men's brain.

II. Modern age is an age of computer. Computer has just become a part of our life. The computer education in India was started in somewhere in sixties. Now with the advent of microcomputer, it has become possible to have mass education in this field. The major advantage of computers is the speed which calculated are the and relative of output comes. Computer can store much information and solve our problem within very short duration.

III. So keeping these things in views, I have computerised my small project work "DATABASE MANAGEMENT ".I have maintained this project work on the suitable and advance language i.e. "PYTHON".

OBJECTIVE



- The objectives of the system are:
 - A. To reduce operational time.
 - B. Increased accuracy and reliability.
 - C. Increased operational efficiency and
 - D. Data security
 - E. Reduced chances of error
 - F. To reduce paperwork.

- The project has a large scope in future as it has some salient features which make it easy to use, understand and modify it:
 1. As people are becoming environment friendly these days and so this method will reduce a lot of paperwork and save trees.
 2. This system saves a lot of time which would be unnecessarily wasted in doing the paperwork.
 3. Managing data will be very easy.
 4. Reduces the manpower involved in the task.
 5. The data can be handled and accessed from anywhere.

PROJECT PLAN



School Database Management System

This project is protected by a strict password and you need to enter a user login to access the main system. When the user login he/she can interact with four categories, the student management menu, fee & finance menu, academic menu and rest password menu.

- In the student menu, the user can manage the student data such as adding new students, update current status, and deleting existing data.
- In the fee menu, the user can manage the student fees record by entering the student's information.
- In the academics menu, the user can view/update time table and exam management.
- While in the reset password menu, the user can create new password.

The **School Database Management System** is a simple project that contains all the necessary functionality for organizing the student information.

Student Management

MANAGE STUDENT DETAILS

For every school important task for administration department is to manage student information details in a procedure oriented manner with latest updates for every year which need to be available for easy access. This can be provided by a simple Students information system to help administration so to efficiently manage student's details.

Project Modules:

- **Admin Panel:** The admin will have control over whole application. Admin will be able to Add, Delete, Update and see Students report.
- **User login:** Students will be able to login into the system, update his information and see some reports.
- **Search option:** Admin & Student can search profiles using different filters.
- **Report:** Admin can see some reports like all students in a class etc.

● **ATTENDANCE MANAGEMENT**

The main aim of Student attendance system project is to maintain attendance records of student for any organization school or college. The attendance project has three user module for run the system Admin, Staff and Student.

Initially the system will be blank, The Administrator has rights to create classroom for school and same time he has to add staff/teachers detail. Administrator generates unique username and password for all staff while adding staff detail. All staff maintain attendance of student, generate reports.

Project Modules:

- **Admin Functionalities:** The admin can add, update or delete classroom & division. Admin can also add, update or delete staff/teachers.
- **Staff/Teacher :** Staff can add, update or delete student. The main aim of the attendance system is fulfilled by staff. Staff can fill the attendance daily for his division.
- **Student:** After login into system student can view his attendance reports and manage his account.

ACADEMICS

? TIME TABLE MANAGEMENT

The timetable is needed to be scheduled in such a way that the number of different subjects with a number of subjects in each, handled by a limited faculty provided with their slots and timings does not overlap. Creating such timetables manually is complex and time-consuming process. By automating this process with computer assisted timetable generator can save a lot of precious time of administrators who are involved in creating and managing subject timetables. Timetable generator automatically schedules timetable for students and faculty which reduces the manual work. Once the inputs like faculty with their respective subjects are given it will generate the period slots for the entire week and also for the substitution hours.

Project Modules:

- **Admin:** The admin is responsible for taking all the details of the teacher, course, subject etc. The admin generates the timetable according to all these factors.
- **Login:** Admin or any registered teacher will need to login first before performing any operation

- **Time table generator:** In this module, generation is done by considering the maximum and minimum workload for each faculty. This will be generated by the admin and viewed by the faculty who are the users of this system.

FEE AND FINANCE

The project 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 carry out 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.

Student Fees Payment 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 the record keeping. Thus it will help organization in better utilization of resources.

● VIEW FEE RECORDS

- In this menu, the user can manage the student payment information by entering the Receipt no, Student name, Admission Number, Date, and Branch**

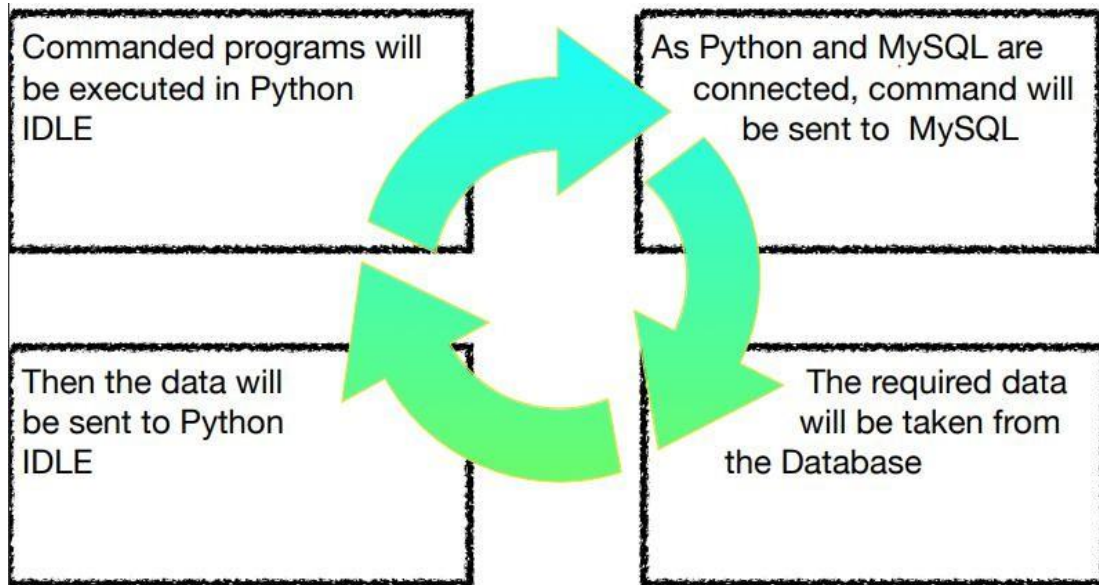
- **UPDATE FEE RECORDS**

- You can update the existing student balances so that students can pay the remaining balance.

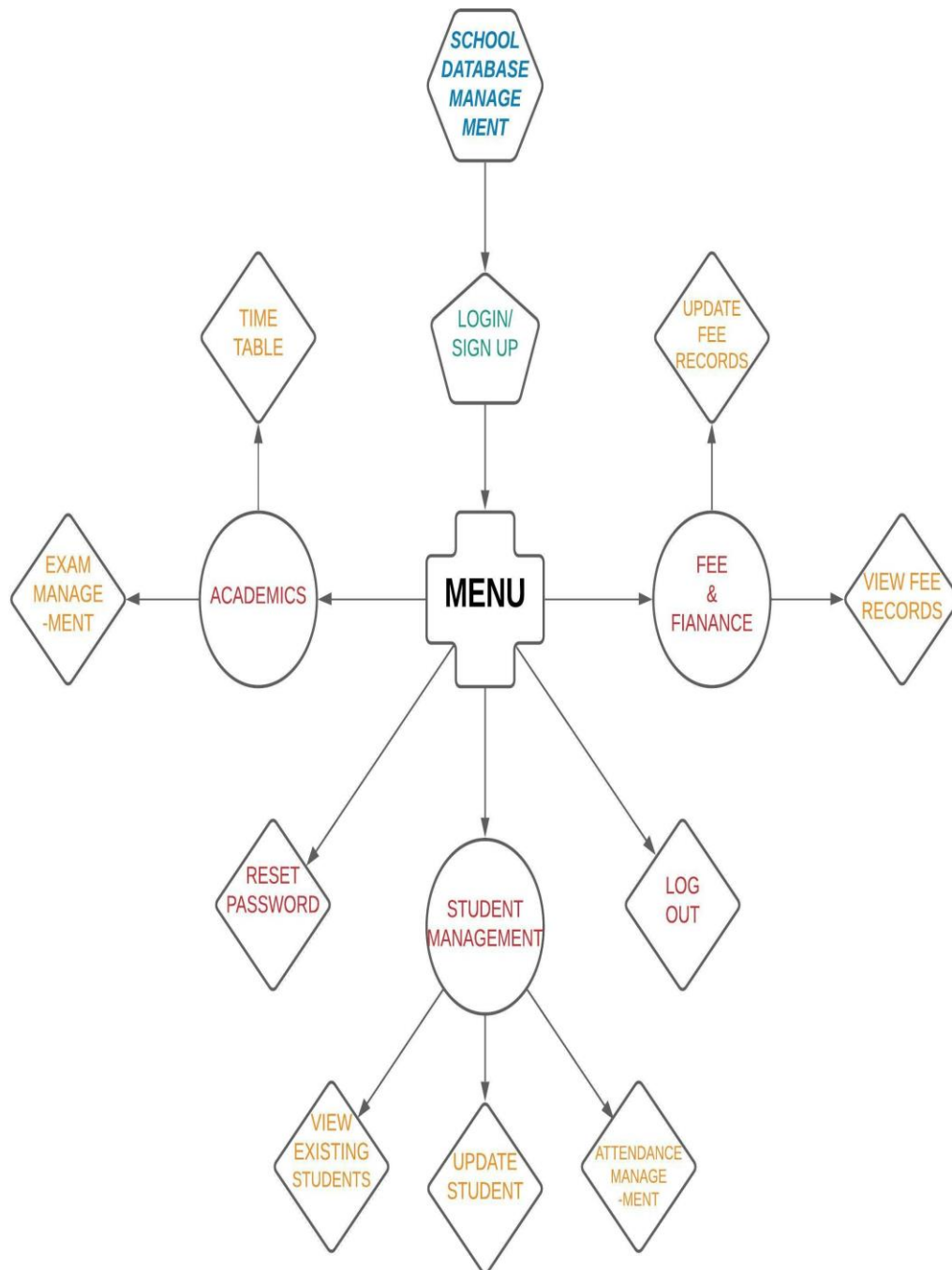
OTHER FEATURES

- **RESET PASSWORD**

- **LOGOUT**



FLOW CHART



HARDWARE & SOFTWARE REQUIREMENTS

HARDWARE REQUIREMENTS:

I. OPERATING SYSTEM	:	WINDOWS /MAC /LINUX
II. PROCESSOR	:	PENTIUM(ANY) OR AMD ATHALON(3800+- 4200+ DUALCORE)
III. MOTHERBOARD	:	1.845 OR 915,995 FOR PENTIUM OR MSI K9MM-V VIAK8M800+8237R PLUS CHIPSET FOR AMD ATHALON
IV. RAM	:	512MB+
V. Hard disk	:	SATA 40 GB OR ABOVE
VI. CD/DVD r/w multi drive combo:		(If back up required)
VII. FLOPPY DRIVE 1.44 MB	:	(If Backup required)
VIII. MONITOR	:	14.1 or 15 -17 inch
IX. Key board and mouse	:	Yes
X. Printer	:	(if print is required – [Hard copy])

SOFTWARE REQUIREMENTS:

- I. Python
- II. Text File

INSTALLATION PROCEDURE

1. You will have to download & install the Python IDLE's, here's the link
`"https://www.python.org/"`.
2. Download and Extract the provided zip file.
(download button is located below)
3. Open the extracted folder
4. Locate the index.py file.
5. Then open the file via python IDLE.
6. Run the index.py file to launch the program.

CONCLUSION

This software has its advantages and disadvantages but it can surely help with the record storage system.

We don't have to worry about the misplacing of record which is a great clash while storing the record on separate files.