**Topic**:

Student Management System

**Tools used**:

MYSQl v5.10, Python v2.7, Geany v3.05,Image Edit v2.2

**Introduction**:

Student Management System deals with all kind of student details, academic related reports, attendance details, branch details and other resource related details too. It tracks all the details of a student of Computer Science Semester IV which can be used for all reporting purpose, tracking of attendance, progress in the course, exam details, final exam result etc.

Our design can facilitate us to explore all the students performance record in the college, the current status of a student, attendance percentage of a student which would give the student a clear idea how to improve for the upcoming semesters. The student management system is an automated version of manual Student Management System. It can handle all details about a student. The details include college details, subject details, student personnel details, academic details, attendance details etc.

In case of manual system they need a lot of time, manpower etc. Here almost all work is computerized. So the accuracy is maintained. Maintaining backup is very easy. It can do within a few minutes.

Our system has a MYSQL database which can be accessed by an administrator. It is the job of the administrator to insert update and monitor the whole process. When a user log in to the system. He/she would only view details of the student. He/she can’t perform any changes. Our system has five modules, they are administrator, student, department, exam and attendance.

Developed on Python, makes the project code easy to understand, in case of modifications or updates are needed in the future. The interactive User interface of the project enables the customer to use the application with ease .

**Functionality:**

The welcome screen introduces the user with a student's image showing options like 'Insert Student Details' , 'CNG List' , 'Topper's List', 'Show Student database' and 'Search a student'.

**Insert Student Details:**

This option would allow user to insert student details(Name, PRN, Branch, Attendance, Marks, etc) into the student database.

**CNG List:**

this option would allow user to find out the list of students having attendance less than 75%.

**Topper's List:**

this option would allow user to find out the list semester toppers having GPA more than 3.5.

**Show student database:**

This option would allow user to show the existing list of all the students whose details have been inserted in the database.

**Search a Student:**

This option would make the work of the user easy in case he wants to search a student in the database by student's PRN.

**Conclusion:**

With such functionalities the system will be beneficial for official purposes in the college reducing the manpower and use paper.

Though This system is at a basic stage with minimum functionalities the increments and modifications will definitely give this application a good exposure and recognition making it helpful for others.