



STUDENT DATABASE MANAGEMENT SYSTEM

File Organisation and Database
Systems

Aryan Verma
20MA20013

AIM:

The purpose is to design software for college database which contains up to date or accurate information of the college. That should improve efficiency and flexibility of college record management and to provide a common and or simple platform for everyone to access the student's information. College Automation System consists of different modules such as student, faculty, admin etc. Our main purpose is to create a software which will manage the working of these different modules. The interconnectivity among modules reduces the time to perform different operational task.

REFERENCES:

- Django
<https://docs.djangoproject.com/en/4.2/>
- Python
<https://docs.python.org/>
- AdminLTE
<https://adminlte.io/>

OPERATING ENVIRONMENT:

The operating environment for the Student Database Management System is listed below:

- Operating System: Windows 10 / 11
- Front End: HTML/CSS/Bootstrap
- Back End: Django
- Database: sqllite

ADMIN/HOD VIEW:

The administrator will have access to all the information in the different tables in the database. They will have access to all the tables in a list form. They will be able to add entries in any table and also update the already entered data. The design of the view for the admin will provide a modular interface so that querying the tables will be optimized.

STUDENT VIEW:

Each student can view only their own personal information. This includes their personal details like name, phone no, address etc. Also, they can view the courses they are enrolled in and the attendance, marks of each of those.

STAFF VIEW:

The teachers will have access to information regarding the courses and classes they are assigned to. Details of the courses include the credits, the syllabus plan. Details of the class include the department, semester, section and the list of students in each class. The teacher will also have access to information of students who belong to the same class as the teacher.