

# Schema Documentation

## Schema:

1. *Department(id, name)*
2. *Program(program\_name, dept\_id)*
3. *StudentLoginInfo(roll\_number, name, dept\_id, program\_id, password, dob, gender)*
4. *TeacherInfo(id, name, title, phone, email, dept\_id, images, subjects)*  
*StudentData(name, email, teacherInfo\_id, studentLoginInfo\_id, is\_generated, years\_taught, is\_pro, subjects, is\_paper, intern)*
5. *Paper(paper\_title, paper\_link, studentData\_id)*
6. *Project(supervised\_project, final\_project, deployed, studentData\_id)*
7. *Qualities(leadership, hardworking, social, teamwork, friendly, quality, presentation, extracurricular, recommend, studentData\_id)*
8. *University(uni\_name, uni\_deadline, program\_applied, studentData\_id)*
9. *Academics(studentData\_id, gpa, tentative\_ranking)*
10. *Files(studentData\_id, transcript, CV, Photo,)*
11. *Template(id, teacher, content)*

### 1. Department

The Department table represents a department in a university and has a dept\_name attribute that stores the name of the department.

### 2. Program

The Program table represents a program offered by a department and has a program\_name attribute to store the name of the program. The Program table has a foreign key relationship with the Department table to indicate which department the program belongs to.

### 3. StudentLoginInfo

The StudentLoginInfo table represents student login information with attributes like username, roll\_number, department, program, password, dob, and gender. The StudentLoginInfo table has foreign key relationships with the Department and Program tables to indicate the department and program the student belongs to.

### 4. TeacherInfo

The TeacherInfo table represents information about a teacher and has attributes like unique\_id, name, title, phone, email, department, images, and subjects. The TeacherInfo table has a many-to-many relationship with the Subject table to indicate which subjects the teacher teaches.

### 5. StudentData

The StudentData table represents student data and has attributes like name, email, is\_generated, years\_taught, is\_pro, subjects, is\_paper, and intern. The StudentData table has foreign key relationships with the TeacherInfo and StudentLoginInfo tables to indicate which teacher the student has, and which student the data belongs to. The StudentData table has a one-to-many relationship with the Paper, Project, University, Qualities, Academics, and Files

Tables.

### **6. Paper**

The Paper table represents a research paper written by a student and has attributes like paper\_title and paper\_link. The Paper table has a foreign key relationship with the StudentData table to indicate which student wrote the paper.

### **7. Project**

The Project table represents a project supervised by a teacher and has attributes like supervised\_project, final\_project, and deployed. The Project table has a foreign key relationship with the StudentData table to indicate which student worked on the project.

### **8. University**

The University table represents a university that a student has applied to and has attributes like uni\_name, uni\_deadline, and program\_applied. The University table has a foreign key relationship with the StudentData table to indicate which a student applied to the university.

### **9. Qualities**

The Qualities table represents qualities of a student and has attributes like leadership, hardworking, social, teamwork, friendly, quality, presentation, extracurricular, recommend, and student. The recommend attribute specifies how strongly the teacher recommends the student. The Qualities table has a foreign key relationship with the StudentData table to indicate which student the qualities belong to.

### **10. Academics**

The Academics table represents the academic information of a student and has attributes like gpa, tentative\_ranking, and student. The Academics table has a foreign key relationship with the StudentData table to indicate which student the academic information belongs to.

### **11. Files**

The Files table represents files like transcripts, CVs, and photos of a student stored in the attributes transcript, CV, and Photo respectively. The Files table has a foreign key relationship with the StudentData table to indicate which student the files belong to.

### **12. Template**

The template represents a template for a recommendation letter. It must be written in jinja. A template has a link to the teacher who is the owner of the template.