

: Project Statement Assignment:

Institute Management System

Brief:

You have to build an institute management system using Django Rest Framework where an Admin can perform CRUD (create, read, update and delete) operations like

- Add a Student
- Update an entry of a Student
- Delete a Student
- Get all Students from the institute.

Develop web applications using Python (Django REST Framework).

There two types of users 1. Institute Admin & 2. Student.

Student can add & update own information only.

Also Get own information.

Fields are as follows.

1. First Name,
2. Last Name
3. Address
4. Email
5. Phone
6. Standard

1. User Signup:

- a) Insert your Own details in the table.
- b) An Student record should be **unique based on email**, which means duplicate records should not be able to enter in DB.

7. 2. **User Login:**
 - a) The Admin can log in based on email and password.
3. Create an entry for Student.
 - a) The admin can create a new entry of a student.
4. Retrieve all the students.
 - a) Retrieve all the students
5. Update a student.
 - a) The students records should be able to update.
6. Delete unwanted students.
 - a) The student record should be deleted.

Total APIs List.

1. **Login API** - This API will use Admin & Student on the basis of the is_admin flag (**POST**)
2. **Register API** for student (**POST**)
4. **Student List API** (With pagination, Add search functionality by first name & last name . This API is used by Admin only so Add permission for this.)
5. Student Create API with proper messages.
6. Student Update API with proper messages.
7. Student Delete API with proper messages.

Conditions:

1. Use Django Rest Framework Only.
2. Use any mysql DB only.