Phase 2: Requirements Analysis

System: Tuition Class Management System

1. Functional Requirements

The system shall:

1. Allow the admin to add, update, view, and delete student details
2. Allow the admin to manage tutor details
3. Allow the admin to add and manage subjects
4. Allow the admin to create and manage class schedules
5. Allow the admin to record student attendance
6. Allow the admin to enter and update fee payment details
7. Allow the admin to view fee payment status of students
8. Allow the admin to generate basic reports such as:
    - Student list
    - Attendance report
    - Fee payment report

2. Non-Functional Requirements

- The system should be easy to use and user-friendly
- The system should respond quickly to user actions
- Data should be stored securely
- The system should be reliable and minimize data loss
- Only authorized users (admin) should access the system
- The system should be maintainable for future updates

3. Use Cases

Use Case 1: Manage Students

- **Actor:** Admin
- **Description:** Admin adds, updates, views, or deletes student information
- **Precondition:** Admin is logged into the system
- **Postcondition:** Student information is saved in the database

Use Case 2: Manage Class Schedule

- **Actor:** Admin
- **Description:** Admin creates and updates class schedules
- **Precondition:** Subjects and tutors are available
- **Postcondition:** Schedule is updated successfully

Use Case 3: Record Attendance

- **Actor:** Admin
- **Description:** Admin records student attendance for each class
- **Precondition:** Students and class schedules exist
- **Postcondition:** Attendance data is stored

Use Case 4: Manage Fees

- **Actor:** Admin
- **Description:** Admin records and updates student fee payments
- **Precondition:** Student is registered
- **Postcondition:** Fee status is updated

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