**School Management System:**

joints

1. **User Roles and Authentication**:
   * **Admin**: Full access to all features, including student management, teacher management, financials, and more.
   * **Staff**: Access to all features except financial sections (fees, expenses, income/expense dashboard, teacher salaries). Permissions
2. **Attendance Management**:
   * **Student Attendance**: Track student attendance and generate a report for students with more than 4 absences in a month.
   * **Teacher Attendance**: Track teacher attendance and generate a report for teachers with more than 2 absences in a month.
3. **Student Management**:
   * Add, edit, and delete student records.
   * Assign students to classes and sections.
   * Manage student marks and grades.
   * Manage student fee categories (Normal, Discounted).
4. **Class and Section Management**:
   * Add, edit, and delete classes and sections.
   * Assign students and teachers to specific classes and sections.
5. **Teacher Management**:
   * Add, edit, and delete teacher records.
   * Assign teachers to classes and subjects.
   * Manage teacher salaries and generate salary reports.
6. **Subject Management**:
   * Add, edit, and delete subjects.
   * Assign subjects to specific classes and sections.
   * Link subjects to teachers.
7. **Fee Management**:
   * Generate monthly fee receipts for each student.
   * Manage fee categories (Normal, Discounted).
   * Track fee payments and outstanding balances.
   * Generate a list of fee defaulters.
8. **Expense Management**:
   * Record various expenses such as utilities, teacher salaries, staff salaries, and other miscellaneous expenses.
   * Generate monthly expense reports.
9. **Dashboard**:
   * Display key metrics, including student count, teacher count, and attendance summaries.
   * Include financial summaries such as total income (from fees), total expenses, and net income.
   * Display reminders for fee defaulters and students/teachers with high absenteeism.
10. **Data Backup and Recovery**:
    * Implement local backup options.
    * Plan for future cloud service integration for automated backups and recovery.

**Future Enhancements:**

* **SMS Notifications**: Implement a system for sending SMS alerts for attendance, fee reminders, and announcements.
* **Cloud Backup**: Integrate cloud services for data backup and recovery to ensure data safety and accessibility.