1. Project Overview

The School & College Management App will be a comprehensive mobile application for Android and iOS, designed to streamline academic and administrative operations for educational institutions. The app will serve students, teachers, parents, and administrators with various features to manage attendance, assignments, exams, communication, and fees.

## 2. Key Features & Functionalities

### A. User Roles & Authentication\*

- Admin Dashboard: Manage users, courses, schedules, fees, and reports.

- Teacher Dashboard: Assignments, attendance, grading, student reports.

- Student Dashboard: View schedule, assignments, grades, and announcements.

- Parent Dashboard: Track child’s performance, attendance, and fees.

- Authentication: Secure login using email, phone, or social media.

- Multi-School Support: Allows institutions to register and customize.

### B. Academic Management

- Class Management: Assign teachers, manage subjects, and allocate students.

- Timetable & Schedule: Create and share academic schedules with students.

- Attendance Tracking: Mark attendance and send alerts to parents.

- Assignments & Homework: Teachers can assign and students can submit digitally.

- Exam & Grading System: Automated grading with performance analytics.

- Library Management: Track book issuance and return.

### C. Communication & Notifications

- In-App Messaging: Secure communication between teachers, students, and parents.

- Announcements & Circulars: Share important notices and updates.

- Push Notifications: Reminders for assignments, fees, and attendance.

### D. Fee & Payment Management

- Fee Collection & Invoices: Generate invoices and track payments.

- Online Payment Integration: Support for UPI, credit/debit cards, and net banking.

- Scholarships & Discounts: Manage student financial aid and fee waivers.

### E. Reports & Analytics

- Performance Reports: Academic progress reports with AI-based insights.

- Attendance Reports: Daily/weekly/monthly attendance tracking.

- Finance Reports: Track institution’s earnings and expenses.

### F. Additional Features

- Hostel & Transport Management: Assign rooms and track buses.

- Event Calendar: Schedule and notify about school events.

- E-Learning Integration: Link to online classes and educational resources.

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## 3. Tech Stack

### Frontend:

- React Native (For cross-platform development)

### Backend:

- .NET Core / Node.js

- SQL Server / PostgreSQL / Firebase/ MongoDb (Database)

### Cloud & APIs:

- Azure / AWS (For cloud storage and backend hosting)

- Firebase (For push notifications and real-time updates)

- Payment Gateway APIs (Razorpay, Stripe, PayPal)

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## 4. Development Timeline

1. Planning & Research (1-2 Weeks)

2. UI/UX Design (3-4 Weeks)

3. Backend & API Development (4-6 Weeks)

4. Frontend Development (4-6 Weeks)

5. Testing & Bug Fixing (2-4 Weeks)

6. Deployment & Launch (1-2 Weeks)

7. Maintenance & Updates (Ongoing)

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## 5. Monetization Model

- Subscription-based Model (Schools pay a monthly/yearly fee)

- Freemium Model (Basic features free, premium features paid)

- Ads & Partnerships (Educational sponsorships)

**Admin Dashboard Features**

The **Admin Dashboard** will serve as the control center for managing the entire educational institution, including users, courses, schedules, finances, and reports. Below are the key features:

**1. User Management**

* **Add/Remove Users** – Admin can register and manage students, teachers, and parents.
* **Role-Based Access Control** – Define permissions for different user roles.
* **Multi-School Support** – Ability to manage multiple branches or institutions.
* **User Activity Logs** – Track user activities for security and monitoring.

**2. Academic Management**

* **Class & Subject Management** – Assign subjects to classes and allocate teachers.
* **Timetable Scheduling** – Create, edit, and publish academic schedules.
* **Attendance Oversight** – View and manage student and teacher attendance records.
* **Assignment & Homework Monitoring** – Oversee the submission and grading process.
* **Exams & Results Management** – Create exams, set grading criteria, and release results.
* **Library Management** – Track issued books, due dates, and library stock.

**3. Finance & Fee Management**

* **Fee Collection & Tracking** – Generate invoices and track paid/pending fees.
* **Online Payments** – Integrate with payment gateways (Stripe, PayPal, etc.).
* **Scholarships & Discounts** – Manage student financial aid and fee waivers.
* **Financial Reports** – Generate detailed reports on income, expenses, and dues.

**4. Communication & Notifications**

* **In-App Messaging** – Admin can communicate with teachers, students, and parents.
* **Announcements & Notices** – Publish school-wide notices and alerts.
* **Push Notifications** – Automated alerts for important updates (fees, exams, events).

**5. Reports & Analytics**

* **Student Performance Reports** – Track academic progress and generate reports.
* **Attendance Reports** – View daily, weekly, and monthly attendance statistics.
* **Financial Reports** – Generate earnings, expenses, and fee collection reports.
* **AI-Based Insights** – Predict student performance and attendance trends.

**6. Event & Facility Management**

* **Event Calendar** – Schedule and notify about school events, holidays, and meetings.
* **Hostel & Transport Management** – Assign hostel rooms and track school buses.
* **Resource Booking** – Manage school facilities like labs, auditoriums, and sports grounds.

**7. Security & Settings**

* **Data Backup & Restore** – Ensure data safety with automated backups.
* **Multi-Factor Authentication (MFA)** – Secure admin login.
* **Customization & Themes** – Configure UI settings for a personalized experience.
* **Audit Logs** – Keep a record of all administrative actions for security purposes.

Would you like to add any **custom features** based on your specific requirements? 🚀

**Top Features**

**Student Management**

**Academics Management**

**Slider Management**

**Teacher Management**

**Session Year Management**

**Holiday Management**

**Timetable Management**

**Attendance Management**

**Exam Management**

**Lesson Management**

**Assignment Management**

**Announcement Management**

**Staff Management**

**Expense Management**

**Staff Leave Management**

**Fees Management**

**School Gallery Management**

**ID Card - Certificate Generation**

**Website Management**

**Chat Module**