

EduSpace - School Private Learning Platform

1. Project Vision

EduSpace is a multi-school SaaS based private learning platform designed for schools. Each school gets its own isolated digital space using a unique School Code login system. Students can only view and download notes. Teachers can upload notes, assignments and mark attendance. Head Master (HM) gets full control with analytics and notification broadcasting.

2. Role Structure

Role	Permissions
Super Admin	Manage schools, subscriptions, monitor storage
HM	Add teachers/students, post notices, view reports
Teacher	Upload notes, assignments, mark attendance
Student	View/download notes, view attendance, receive notifications
Parent	View child attendance and notices

3. Core Modules

A. Notes Module: Teachers upload PDF/Image notes class-wise and subject-wise. Students can only view and download. B. Attendance Module: Teachers mark daily attendance. System automatically calculates monthly percentage using backend automation. C. Monthly Attendance Automation: $\text{Monthly \%} = (\text{Present Days} / \text{Working Days}) \times 100$ On 1st of every month, attendance summary is generated automatically. Students and parents receive notification. D. Notification Center: HM can send general, urgent or event notices. All notifications are stored in-app and visible in history.

4. Technical Architecture

Frontend: Flutter (Single app, School Code login) Backend: Supabase (Auth, Database, Storage)
Notifications: Firebase Cloud Messaging Automation: Scheduled backend cron jobs Security: Row Level Security (school_id isolation)

5. Database Core Tables

- schools (id, name, school_code, plan_type)
- users (id, school_id, role, name, class_id)
- classes (id, school_id, class_name)
- notes (id, school_id, class_id, subject_id, file_url)
- attendance (student_id, date, status)
- attendance_summary (student_id, month, percentage)
- notifications (school_id, title, message, type)

6. Business Model

Revenue Model: Setup Fee: ■3,000 - ■5,000 per school Monthly Subscription: Up to 300 students: ■1,500 300-800 students: ■3,500 800+ students: ■6,000 Target: 25 schools in 1 year Estimated Revenue Potential: ■3-5 lakh per month

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