LMS (Learning Management System) Overview

Our Learning Management System is a complete academic platform designed to streamline user access, content delivery, assessments, and performance tracking. It supports students, instructors, and administrators with role-based access and feature-rich modules to manage the full academic lifecycle.

Ruthentication Module

- Secure login system for ERP staff, students, and instructors
- JWT-based authentication for secure student sessions
- Role-based dashboard routing (Admin, Instructor, Student)

User Management

- Create, edit, or deactivate student and staff accounts
- Assign or reassign courses and semesters to users
- Define and manage roles: Admin, Student, Instructor
- Control access based on status (active, blocked, pending)
- Enable/disable semester access based on fee status
- View student academic progress and submissions
- Track fee verification to control access
- Search students/instructors by name, ID, or email



- Add, edit, or remove courses easily
- Upload course material (videos, PDFs, MCQs)
- Assign instructors to relevant subjects
- Link courses to batches and semesters for structured delivery

Learning Content (Courseware)

- Students can view uploaded course materials anytime
- Track lesson completion and progress
- Include simulated real-world case studies
- Enable gamified MCQ quizzes to boost engagement

Assignment Module

- Instructors upload assignments with instructions
- Students submit responses with attachments
- Instructors evaluate and provide grades
- Add personalized feedback per student submission

Live Class Integration

- Schedule live sessions by date, time, and topic
- Share Google Meet or Zoom links
- Show sessions in a student-friendly calendar view

Assessment & Exams

- Create MCQ and written exams with timers
- Support for auto-grading or manual evaluation
- Generate score reports for each exam

Payment Verification

- Admin manually verifies student fee payments
- Show access block notices and "Pay Now" popup for unpaid users

Attendance Management

- Auto-track attendance based on student logins
- View attendance history per course or batch

Motifications

- Push alerts for assignments, exams, and live classes
- Notify students of restricted access or deadlines

Reports & Dashboards

• View student progress reports and performance trends

- Get assignment and exam summaries
- Track live class attendance
- Monitor fee status dashboards
- View user activity logs (logins, actions, etc.)

Question Bank Development

- Create and organize reusable questions
- Link questions to topics, subjects, or exams
- Build a smart question library for assessments

Supported User Roles

- Student: Access content, assignments, live classes, and exams
- Staff (Instructor): Upload content, manage students, evaluate work
- Admin: Manage all modules, users, and reports
- (Optional future roles: Parent, Accountant, Director)

Project Highlights

- Full academic lifecycle in one platform
- Role-based dashboards and access
- Secure authentication with JWT

- Structured learning with content + assignments
- Exam module with grading and reporting
- Live class scheduling and attendance
- Fee-based access control
- Modern UI built with Ionic React + .NET Core + SQL Server
- Scalable, responsive, and mobile-friendly