



# School Management System

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# What is a School ERP System?

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**A School ERP System is a software application to manage school activities such as:**

Attendance

Student  
information

Fees

Exams

Timetables

Teacher  
records

# Core Modules Overview

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1. Authentication
2. Dashboards
3. Student Management
4. Teacher Management
5. Class & Section Management
6. Attendance
7. Fee Management
8. Timetable
9. Examination & Results
10. Notices
11. Library (Optional)
12. Transport (Optional)

# Authentication & Dashboards

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**Login for Admin, Teachers, Students, Role-based access**

Admin: Stats,  
Attendance

Teacher: Assigned  
Classes,  
Attendance

Student: Notices,  
Assignments,  
Results

# Student & Teacher Management

## Student:

- Add/Edit/View details
- Document upload
- Search by class/name/ID

## Teacher:

- Add/Edit profiles
- Assign to classes/subjects
- Schedule management

# Class, Attendance, Fee Modules

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## Class & Section:

- Create classes and assign subjects

## Attendance:

- Daily marking
- Reports and history view

## Fees:

- Structure setup
- Receipt generation
- Due reminders

# Timetable & Examination Modules

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## Timetable:

- Assign class schedules
- Weekly view
- Student Attendance as per the class

## Exams & Results:

- Schedule exams
- Record marks
- Generate report cards

# Notices, Library, Transport Modules

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## Notice Board:

- Add/display notices
- Internal messaging

## Library:

- Book management
- Issue/return tracking

## Transport:

- Vehicle and route management
- Driver details



# Technology Stack Suggestions

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## Frontend:

- HTML, CSS, JavaScript
- React.js / Vue.js /Vite
- Bootstrap for CSS

## Backend:

- Node.js, Express.js

## Database:

- MongoDB

## Authentication:

- JWT or session-based login

# Database Schema Overview

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- students, teachers, classes, subjects
- attendance, fees, exams, results, timetable,  
admin\_users

# Features by User Role

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Admin:

- Manage teachers/students, set timetable, send notices

Teacher:

- Mark attendance, enter marks, view classes

Student:

- View timetable, check results, pay fees, receive notices

# Optional / Advanced Features

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- SMS/Email notifications
- Attendance system for both teachers and students
- Chat system
- Google Calendar sync
- Firebase real-time updates of a student day by day

# Sample Folder Structure (School-ERP)

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**school-erp/**

├── **client/ (Frontend)**

├── **server/**

| ├── **routes/**

| ├── **controllers/**

| ├── **models/**

| ├── **middleware/**

| └── **app.js**

├── **config/db.js**

├── **.env**

└── **package.json**

*Thank You*  
*Everyone.....*