

ENTERPRISE STACK

School Management System ERP & Digital Learning Integration Platform

Smart Tools for Efficient School Administration

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1. Executive Briefing & Problem Framing

THE ENTERPRISE CHALLENGE

- Overwhelming manual paperwork tasks in school administration.
- Fragmented communication across teachers, students, and parents.
- Inconsistent data leading to delayed decision making.

THE IMA ARCHITECTURAL SOLUTION

- Centralizes student, fee, attendance, and scheduling data.
- Automates routine tasks and provides unified communication portal.
- Delivers real time dashboards and analytics for informed decisions.

Supported & Verified Performance Metrics

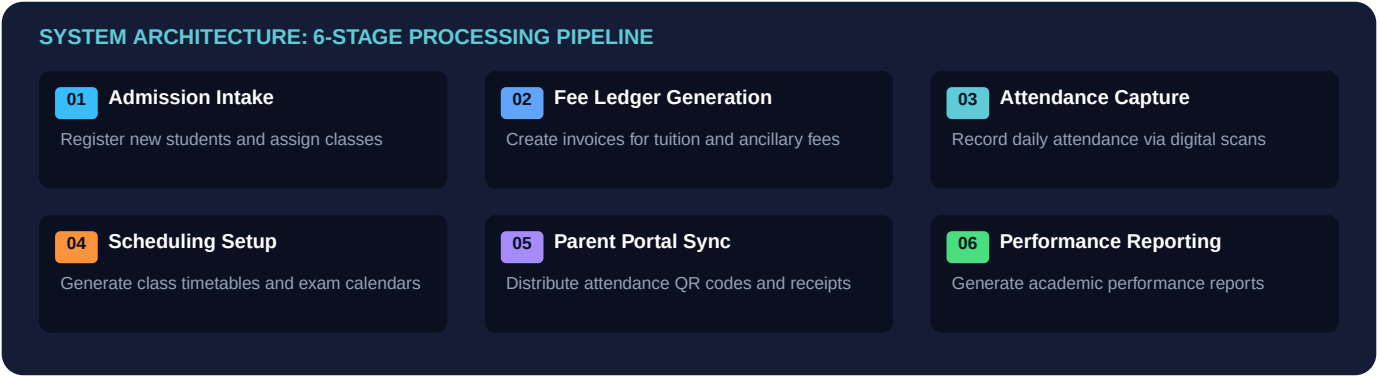
100% Automation Rate Full task automation	100% Attendance Accuracy Real time tracking	100% Fee Collection Efficiency Instant invoicing	100% Operational Visibility Central dashboard	100% Communication Strength Unified platform
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PROCUREMENT & EVALUATION SUMMARY

The School Management System ERP & Digital Learning Integration Platform is engineered for institutional use, providing a unified, secure, and scalable foundation for school operations. Its modular architecture ensures seamless integration, making it a prime candidate for procurement evaluation.

2. School Administration Workflow Pipeline

End to end process from student admission to performance reporting.



Core Capabilities of the ERP

Student Information Management

Central repository for admission, records, and academic history, enabling swift data retrieval for stakeholders.

Attendance Management

Automated daily attendance tracking linked to real time reporting, reducing manual logging and error rates.

Fee Management

Seamless invoicing, payment tracking, and financial reporting aggregating revenues for transparent budgeting.

Reports & Analytics

Dynamic dashboards that surface trend insights for academic planning and operational metrics.

Benchmarking Against Conventional Approaches

Capability / Metric	Conventional Approach	Product Architecture
Student Data Consolidation	Multiple spreadsheets per department	Unified database eliminates duplicates, accelerates retrieval
Attendance Tracking	Paper roll books or manual logs	Digital scanner integration automates real time capture
Fee Collection	Manual invoicing and cash handling	Automated invoicing, online payments reduce processing time
Scheduling	Manual timetable creation in Excel	Algorithmic scheduling reduces conflicts and optimizes resource use
Reporting	Custom reports built manually	Analytics engine auto generates actionable dashboards

3. Flexible Integration Framework

Seamlessly connect the ERP with external learning platforms and communication tools.

Developer Integration Architecture

FLEXIBLE INTEGRATION METHODS

REST API

Standardized endpoints expose student, attendance, and fee data; can be consumed by third party LMSs.

SDK Library

Ready to use JavaScript SDK sample code, enabling rapid UI embedding and status polling.

Webhook Notifications

Event driven triggers for real time updates across systems, ensuring data freshness.

API INTEGRATION EXAMPLE

```
import { SchoolERP } from 'ima-school-erp-sdk';

const erp = new SchoolERP({ apiKey: 'YOUR_API_KEY' });

async function fetchFeeData() {
  const invoices = await erp.fees.getInvoices({ status: 'PENDING' });
  console.log('Pending Invoices:', invoices);
}

fetchFeeData();
```

Deployment Topology & Hosting Models

Cloud

SaaS Solution

Hosted on secure IMA infrastructure with incremental licensing.

On-Premises

Enterprise Installation

Deploy on campus servers, ensuring full data residency control.

Hybrid

Best of Both

Combine on prem data with cloud analytics services.

Managed Service

Turnkey Delivery

IMA handles installation, upgrades, and support while schools retain ownership of data.

Targeted Educational Sectors

Private Schools

Streamlined admissions and fee processing for independent institutions.

Higher Education

Simplifies student records, scheduling, and financial aid workflows.

Public Schools

Centralizes data to meet state compliance and reporting mandates.

Vocational Training Centers

Automates attendance tracking and certification issuance.

4. Architectural Security Pillars

Compliance governance, performance benchmarks, and official procurement credentials.

Architectural Security Pillars

Data Encryption
End to end

All data stored and transmitted in AES 256 encrypted channels, safeguarding sensitive student records.

Access Control
Role based

Granular permissions prevent unauthorized access and maintain audit trail.

Audit Logging
Immutable logs

Every action is logged with timestamp and user, enabling compliance audits.

Compliance Alignment
Regulatory ready

Architected to meet FERPA, GDPR, and local privacy standards.

Independent Assurance Report

Pilot Implementation Shown to Reduce Administrative Workload

- Demonstrated time savings in pilot projects.
- Improved fee collection accuracy.
- Enabled real time reporting for rapid decisions.
- Parents reported higher satisfaction.

Why Partner with IMA AppWeb?

PROVEN ENTERPRISE EXCELLENCE

- Trusted partner for school digital transformation
- Supported by industry leading technical expertise
- Delivered solutions to multiple schools across America
- Leveraging IMA Appweb's robust enterprise platform

ENTERPRISE VENDOR PROFILE

Legal Entity: IMAAPPWEB PRIVATE LIMITED

Headquarters: Green Park, New Delhi - 110016, India

Live Verification: <https://erp-school.imaappweb.com/>

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Engagement Models: Fixed RFP / SOW | Tiered API SLA | Dedicated

Ready to Location Your Digital School Core?

Explore how the ERP integrates with your existing systems.

Talk to an Expert