FASTACK DIGITAL SOLUTIONS | SMART CAMPUS ERP-LITE

Fastack School ERP
Enterprise Edition v2.4

Master Institutional Capability Guide & Product Walkthrough

A comprehensive briefing for School Owners, Trustees, Principals & Administrative Leadership

Target Audience:	School Owners, Principals, Trustees & Management
Platform Scope:	Public Flagship Website + Administrative Operations ERP-Lite
Active Version:	Release 2.4.0 (Enterprise Production)
Security Standard:	Enterprise 2-Factor Authentication (2FA) with 24-Hour Device Trust
Website Themes:	4 Dynamic Design Templates (Modern Prestige, Heritage Ivy, Nordic STEM, Editorial)
Cloud Architecture:	High-Availability Multi-Tenant Cloud (Supabase PostgreSQL + Next.js 14)

Institutional Value Proposition

Executive Summary: Fastack School ERP eliminates administrative paper clutter, manual marksheet calculations, and fragmented parent communication. By combining a public institutional website with a full administrative ERP, Fastack powers institutional branding, streamlines student records, recovers unpaid fees via 1-click WhatsApp reminders, and publishes academic documents with on-demand PDF generation.

1. Stakeholder Capabilities & Access Matrix

Fastack enforces strict Role-Based Access Control (RBAC) to ensure that every participant in the school ecosystem interacts through an optimized, secure interface.

Stakeholder Role	Primary Responsibilities & Interface	Institutional Benefits
School Principal / Owner School Admin	Full oversight over executive dashboard, student roster, fee invoices, exam report cards, faculty directory, branding, and feature toggles. Protected by 2FA Email OTP.	Real-time visibility over school health, fee recovery rates, student enrollments, and teacher performance without manual meetings.
Academic Staff / Teachers Academic Staff	Daily homework publishing, assignment handouts, student marks entry, attendance marking, and circular distribution.	Eliminates repetitive paperwork. Marksheets, grade calculations, and homework sheets are formatted automatically.
Parents / Guardians Public / Parent Portal	Instant examination result verification (`/results`), fee invoice and receipt lookup (`/invoice`), timetable viewing, circular reading, and WhatsApp outreach.	Direct, transparent access to their child's academic progress, fee dues, and school circulars on any smartphone with zero app installation.
Students Student Portal	Access to study materials, syllabus handbooks, exam datesheets, holiday projects, and sports/event schedules.	24/7 access to curriculum materials and official school schedules.

2. Subscription Plan Comparison

Schools can select from three curated tiers designed for different stages of institutional growth:

Feature / Capability	Starter (Digital Flagship)	Pro (Admissions Pro)	Enterprise (Smart Campus ERP)
Custom Subdomain (`school.fastack.co.in`)	Included	Included	Included
Custom Domain (`www.school.edu.in`)	Add-on	Included	Included
4 Designer Website Templates	Included	Included	Included
Online Admissions & Tour Bookings	Included	Included	Included
AI Admissions Concierge Chatbot	—	Included	Included
Online Exam Result Verification (`/results`)	—	Included	Included
Student Directory & Demographic SIS	—	—	Included
Fee Invoices, Dues & UPI Receipts	—	—	Included
Dual Academic Publishing Desk (8 Sections)	—	—	Included
On-Demand Smart PDF Generation	—	—	Included
WhatsApp Broadcasts & 1-Click Reminders	—	—	Included
Enterprise 2FA Email OTP (24h Trust)	Included	Included	Included

3. Module-by-Module Functional Deep Dive

Every module in Fastack School ERP is built around everyday institutional tasks, saving time and simplifying school governance.

Module 1: Student Directory & Demographic SIS

WORKING

Overview: Maintains complete student profiles including admission number, roll call, class, section, blood group, parent contact, and residential address.

Key Capabilities: Bulk spreadsheet import (.xlsx, .csv) with auto-column matching, data quality flags for missing parent phone numbers, and instant search.

Institutional ROI: Eliminates paper registers, ensures 100% data auditability, and speeds up student record retrieval from minutes to seconds.

Module 2: Fee Invoices & WhatsApp Dues Desk

WORKING

Overview: Generates itemized fee invoices for tuition, transportation, laboratory, library, and uniform dues with unique invoice numbers and due dates.

Key Capabilities: Public `/invoice` parent lookup portal, institutional bank & UPI QR code display, and 1-Click WhatsApp payment reminder dispatch.

Institutional ROI: Reduces overdue student fees by up to 40% through polite, automated WhatsApp reminders sent directly to parents' smartphones.

Module 3: Examination Studio & Report Cards

WORKING

Overview: Manages examination cycles (Half-Yearly, Final Term, Unit Tests) and records subject-wise theory, practical, and oral scores.

Key Capabilities: Auto-calculates percentages, GPA, letter grades (A1 to E2), 3 report card styles (CBSE, Cambridge, Modern), and digital signatures.

Institutional ROI: Saves hundreds of teacher hours at the end of each term and enables parents to verify results online via roll number and mobile verification.

Module 4: Dual Content Academic Publishing Desk

WORKING

Overview: Supports 8 academic sections: Timetables, Daily Homework, Assignments, Study Materials, Exam Datesheet, Calendar, Holiday HW, and Circulars.

Key Capabilities: Option A (Dynamic Fastack Templates with live preview) and Option B (Upload Existing School PDF with backend size optimization).

Institutional ROI: 0 MB redundant server storage for templates; smart on-demand PDF generation with institutional letterhead branding.

Module 5: Admissions Desk & WhatsApp CRM

WORKING

Overview: Captures prospective student applications and campus tour bookings from the public website.

Key Capabilities: Intelligent deduplication engine that purges redundant submissions within 90 seconds, plus a green 1-Click WhatsApp chat button for instant lead outreach.

Institutional ROI: Prevents lost admission leads and eliminates duplicate enquiry inflation.

Module 6: WhatsApp Broadcasts Studio

WORKING

Overview: Centralized hub for sending pre-formatted school announcements, emergency holiday alerts, fee dues, and PTM reminders.

Key Capabilities: Dynamic variable placeholders ({{student_name}}, {{class}}, {{due_date}}) and audience filtering by class or fee status.

Institutional ROI: 98% open rates compared to traditional SMS, keeping parents informed instantly without expensive telecom gateways.

Module 7: Enterprise 2FA Security Engine

WORKING

Overview: Secures administrator accounts against credential theft and unauthorized access.

Key Capabilities: Integrated Resend REST API email OTP delivery with a 24-hour trusted device grace period and mandatory OTP verification for password changes.

Institutional ROI: Protects sensitive student data, marksheet ledgers, and fee accounts in compliance with modern data privacy standards.

Module 8: Public Flagship & Design Studio

WORKING

Overview: Generates the school's public website with instant no-code switching between 4 design aesthetics (Modern Prestige, Heritage Ivy, Nordic STEM, Editorial).

Key Capabilities: Interactive campus virtual tour, photo lightbox gallery, faculty profiles, AI admissions chatbot, and mobile-first responsive layout.

Institutional ROI: Positions the school as a premier digital institution, boosting prospective admissions and parent pride.

4. Practical Operational Workflows & Flowcharts

The diagrams below illustrate everyday operational workflows within Fastack School ERP:

Workflow A: Student Fee Invoicing & 1-Click WhatsApp Recovery

STEP 1 **Admin Generates Term Invoices** [AUTOMATED]

Select student and term (e.g. Q2). System itemizes tuition, transport, lab, and uniform dues with due date.

↓

STEP 2 **Parent Receives 1-Click WhatsApp Alert** [AUTOMATED]

Staff clicks green WhatsApp button on fee desk. Parent receives pre-filled message with invoice number and direct link.

↓

STEP 3 **Parent Views Invoice & Pays via UPI** [AUTOMATED]

Parent opens `/invoice/[id]` on smartphone, reviews itemized bill, and scans school UPI QR code or copies bank IFSC.

↓

STEP 4 **Admin Marks Invoice Paid & Prints Receipt** [AUTOMATED]

Admin records payment method (Cash / UPI / Cheque). System prints official fee receipt with school crest.

Workflow B: Dual Content Academic Publishing (Timetables & Homework)

STEP 1 **Teacher Opens Academic Desk (`/admin/academics`)** [AUTOMATED]

Selects category (Timetable, Homework, Study Material, Exam Datesheet) and target Class (Grade 1-12).

↓

STEP 2 **Chooses Creation Method (Template vs. Upload)** [AUTOMATED]

Option A: Uses built-in template with live preview. Option B: Uploads existing school PDF with auto-compression.

↓

STEP 3 **Document Published to Public Portal** [AUTOMATED]

Published instantly to `/academics`. Students and parents filter by grade to view or download high-res PDF on demand.

Workflow C: Examination Cycle & Public Marksheet Verification

STEP 1 **Scores Entered or Imported via Excel** [AUTOMATED]

Teacher records theory and practical scores. System calculates totals, percentages, and letter grades (A1-E2).

↓

STEP 2 **Marksheet Style & Signatures Configured** [AUTOMATED]

Admin chooses CBSE Classic or Cambridge layout and embeds digital signatures of Principal and Exam Controller.

↓

STEP 3 **Parent Verifies Result Online (`/results`)** [AUTOMATED]

Parent enters Roll Number and registered mobile. System displays tamper-proof marksheet ready for print.

Institutional Onboarding Guarantee

Fastack 15-Minute Deployment Commitment: Fastack requires zero complex on-premise installation. Our onboarding team provisions your custom institutional domain, uploads your student roster, configures your school crest, and trains your administrative staff in a single 15-minute onboarding session.