

School Management System – Final Detailed Proposal

1. System Overview

- Single-school web application (no branches).
- Role-based access: Owner, Admin, Teacher, Class Supervisor, Student, Parent, Accountant.
- Bilingual support (English / Arabic) with full RTL/LTR switching.
- Sidebar-driven navigation with grouped sections and icons.
- Executive dashboards for Owner and Accountant; operational dashboards for Admin and Teachers.

2. Roles and Permissions

- Owner: Full access including user management, system controls, audit logs.
- Admin: Full operational control except security/system controls and Admin creation.
- Teacher: Subject-based access; can edit grades with resubmission logging.
- Class Supervisor: Class-wide academic overview; can add overall remarks only.
- Student: View published grades, attendance, report cards; can message teachers.
- Parent: View children data, fees; can message teachers.
- Accountant: Finance management; no academic grade access.

3. Bilingual System

- Language toggle (EN/AR) stored in localStorage.
- Dynamic LTR/RTL switching.
- All labels, messages, and validations localized.
- Mirrored layout behavior for Arabic mode.

4. Core Modules

- Students Management (List, Add/Edit, Profile with tabs).
- Teachers Management and Assignments.
- Classes & Subjects Configuration.
- Attendance Tracking and Reports.
- Timetable Builder and Viewer.

- Exams & Grades with revision tracking.
- Fees & Finance (Invoices, Payments, Reports).
- Parent Portal and Child Profiles.
- Reports & Certificates Generator.
- Messaging & Announcements.
- Settings (Owner/Admin split).

5. Dashboard Designs

- Owner Dashboard: Executive KPIs, trends, alerts, activity feed.
- Admin Dashboard: Operational tasks and pending alerts.
- Teacher Dashboard: Schedule-first design with grading tasks.
- Student Dashboard: Timetable-first with academic snapshot.
- Parent Dashboard: Child overview-focused layout.
- Accountant Dashboard: Financial trend-first design.

6. Data Structure (High-Level)

- Profiles table for users and roles.
- Students, Teachers, Guardians, Classes, Subjects.
- Attendance sessions and records.
- Exams, Terms, Grade entries, Grade revisions.
- Fee items, Invoices, Payments, Receipts.
- Messages, Announcements, Notifications.
- Audit logs for sensitive actions.

7. Grade Integrity Workflow

- Teacher submits grades → status locked.
- Teacher edits → revision record created.
- Admin/Owner notified of resubmission.
- Full audit trail maintained.

8. Implementation Roadmap

- Layout + bilingual foundation.
- Authentication and role routing.
- Dashboards per role.
- Students module.
- Teachers and academic configuration.
- Attendance and timetable.
- Exams & Grades with report cards.

- Finance module.
- Messaging and reports.
- Settings and audit controls.