

# ■ Madrasti2.0 — Project Overview

## 1. Project Description

Madrasti2.0 is a modern school management and e-learning platform designed for Moroccan schools from preschool to high school. It connects administrators, teachers, students, and parents in a single digital ecosystem that simplifies school operations, improves learning, and strengthens communication.

The platform will be available as:

- Web application (React.js + Django backend)
- Mobile application (React Native, iOS & Android)

Madrasti2.0 is built with scalability in mind, offering core features for MVP and the ability to expand into advanced tools such as AI-driven learning analytics and predictive insights.

## 2. Core Goals

1. Digitize school operations: Replace manual paperwork with digital tools for courses, grades, attendance, and payments.
2. Empower teachers: Give teachers easy tools to manage classes, share resources, assign homework, and track student progress.
3. Engage students: Provide students with a learning hub where they can access courses, homework, grades, schedules, and exercises.
4. Support parents: Enable parents to monitor children's progress, homework, attendance, and pay school fees online.
5. Simplify administration: Help school staff and managers track daily tasks, manage communication, and generate reports.
6. Prepare for the future: Add modern features like AI-driven performance tracking, smart notifications, and predictive analytics.

## 3. Key Features by User Role

### ■■■ Teachers

- Create & manage courses, lessons, and materials.
- Assign and grade homework & exercises.
- Track attendance and student performance.
- Communicate with students, parents, and staff.
- Manage schedules and school events.

### ■■■ Students

- Access courses, lessons, and resources.
- Submit homework and practice exercises.
- View schedules, grades, and progress reports.
- Receive notifications and reminders.

### ■■■■■ Parents

- Monitor children's grades, attendance, and homework completion.
- Receive alerts for missed classes, upcoming deadlines, and events.
- Communicate directly with teachers and administration.
- Pay monthly school fees securely online.

#### ■ **School Staff & Administrators**

- Manage daily school operations and tasks.
- Handle school events, announcements, and communications.
- Assign teachers to classes, manage users, and generate reports.
- Manage payments, financial records, and school calendar.
- Access dashboards with statistics and insights.

## **4. Advanced & Future Features**

- AI Learning Analytics → Identify weak/strong points of students and recommend personalized exercises.
- Predictive Insights → Early warning system for students at risk of failure or drop-out.
- Smart Notifications → Attendance alerts, homework reminders, fee reminders.
- Real-Time Messaging & Video Calls → Chat, group discussions, and virtual parent-teacher meetings.
- Multi-language Support → Arabic, French, and English (RTL included).
- Integration with MASSAR → Compatibility with Morocco's official education system.

## **5. Target Audience**

Private schools in Morocco (Preschool → High School).

Later expansion to:

- Vocational schools
- Language schools
- International schools

## **6. Business Model**

- Subscription-based pricing for schools (monthly/annual).
- Flexible tiers depending on number of students and features used.
- Extra income from premium add-ons (AI analytics, advanced reporting, integrations).

## **7. Vision & Impact**

Madrasti2.0's vision is to modernize education management in Morocco by offering an affordable, all-in-one platform that:

- Saves time for teachers and administrators.
- Improves student performance with data-driven insights.
- Builds stronger parent-school relationships.
- Prepares Moroccan schools for a digital-first future in education.