

E-LEARNING MANAGEMENT SYSTEM (ELMS)

একটি সম্পূর্ণ ই-লার্নিং প্ল্যাটফর্ম যেখানে Student, Teacher, Trainer, Team Leader, Telecaller এবং Admin — সবাই নিজ নিজ সিস্টেমে কাজ করতে পারবে।

AUTHENTICATION & USER MANAGEMENT

- Registration / Login (Role Based: Student, Teacher, Trainer, Team Leader, Telecaller, Admin)
 - Email / SMS Verification
 - Forgot Password / Password Reset
 - Role-based Access Control (RBAC)
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ADMIN PANEL

- User Management: Create Teacher / Trainer / Team Leader / Telecaller / Student ID, Activate / Deactivate Student Accounts
 - Course Management: Create Course, Add Module, Assign Teacher, Create Batch
 - Payment Management: Verify Student Payment, Activate Student ID
 - Referral & Reward Management: Set Reward Rules, View Referral History / Top Referrers
 - Performance Tracking: Trainer & Team Leader Reports, Active/Inactive Summary
 - Notification System: Send Email / WhatsApp / In-App Notifications
 - Analytics Dashboard: Total Students, Active Users, Revenue, Course Stats
 - Access Control & Logs: Manage Permissions, Activity Log
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STUDENT PANEL

- Register & Enroll in Course
 - View Course & Batch Information
 - Join Live Class (Zoom / Google Meet Integration)
 - View Uploaded Class Materials (Video / PDF / Assignment)
 - Referral System: Get Unique Referral Link, See How Many Joined via Their Link
 - Points & Rewards: Earn Points for Each Successful Referral Activation, See Point History & Reward Status
 - Payment History
 - Certificate Download (After Course Completion)
 - Support Contact (WhatsApp / Message Teacher)
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TEACHER PANEL

- Submit Class Links (Zoom/Meet)
 - Upload Course Materials (Video / PDF / Assignment)
 - Manage Batch Schedules
 - View Students in Each Batch
 - Mark Attendance / Result / Feedback
 - Communication with Students (Notice, Message)
 - Batch Progress Analytics
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TRAINER PANEL

- View All Students Under Their Supervision
 - Check Active / Inactive Students
 - WhatsApp / Call Contact Button for Each Student
 - Team Progress & Performance Overview
 - Track Referrals Done by Their Students
 - Summary Report (Daily / Weekly / Monthly)
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TEAM LEADER PANEL

- Manage Trainers (Create / Deactivate Trainer IDs)
 - View Trainer-Wise Student Lists
 - Check Active / Inactive Ratios
 - Performance & Target Report
 - Incentive Calculation
 - Approve / Request Trainer Changes
 - Internal Messaging System (Trainer ↔ Leader)
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TELECALLER PANEL

- View List of Inactive Students
 - Call / WhatsApp Directly from Panel
 - Add Call Feedback or Notes
 - Request Activation (if student paid)
 - Conversion Report (Contacted → Activated)
 - Follow-up Reminder System
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REFERRAL & REWARD SYSTEM

- Every Student gets a Unique Referral Link

- New Student Registration auto-saves referrer_id
 - On Activation → Referrer gets Reward Point
 - Admin Sets Reward Rules
 - Leaderboard of Top Referrers
 - Optional Conversion: Points → Cash / Course Discount
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BATCH & COURSE MANAGEMENT

- Each Course can have Multiple Batches (1st, 2nd, 3rd...)
 - Students can see only their own batch data
 - Separate Class Link, Schedule & Teacher per Batch
 - Batch Status (Running / Completed / Upcoming)
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PAYMENT & ACTIVATION SYSTEM

- Payment Gateway Integration (SSLCommerz / Stripe / bKash / Nagad)
 - Automatic Transaction Verification
 - Admin Approves and Activates Student ID
 - Transaction History for Students
 - Invoice Download Option
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COMMUNICATION & NOTIFICATION SYSTEM

- WhatsApp API Integration
 - Email Notification (class schedule, payment confirmation)
 - In-App Notification (dashboard alert)
 - Auto Reminder for Upcoming Classes
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REPORTS & ANALYTICS

- Active / Inactive Students Count
 - Course-Wise Enrollment
 - Referral Performance
 - Trainer / Team Leader Report
 - Payment Report
 - Student Progress Report
 - Monthly Growth Analytics
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SECURITY & CONTROL

- Role Based Permission System
 - Batch Data Isolation (1st Batch can't see 2nd Batch info)
 - Encrypted Payment Data
 - Activity Logs for Every Role
 - Two-Factor Authentication (Optional)
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OPTIONAL ADD-ONS

- Chat System (Student ↔ Trainer ↔ Teacher)
 - Gamified Dashboard (Badges, Levels, Progress Bar)
 - Auto Generate Certificates with QR Code
 - Support Ticket System
 - API Access for Mobile App Integration
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TECHNOLOGY STACK (RECOMMENDED)

- Backend: Laravel 11 (PHP 8.x)
- Frontend: Blade / Vue.js / React
- Database: MySQL / MariaDB
- Authentication: Laravel Breeze / Jetstream
- Payment: SSLCommerz / Stripe / bKash / Nagad
- Notification: Twilio / WhatsApp Cloud API / SMTP
- Hosting: VPS / Cloud (DigitalOcean, AWS)