

Full System Documentation: Study Abroad Consultancy & LMS Platform

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“If Objective

Build an integrated web platform combining:

- A public-facing consultancy website
 - A student portal
 - A full-featured LMS (Learning Management System)
 - A visa process tracking module
 - Appointment booking
 - Attendance management
 - Role-based admin/teacher dashboard
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System Overview

1. Public Website

- Informational pages (Home, About, Services, Contact)
- Dynamic blog, news, and events section (admin-controlled)
- Free and premium course listings
- Appointment booking form

2. Admin Dashboard

- Single centralized dashboard
- Content management: blog, news, events
- LMS management: courses, lessons, quizzes, video breakpoints
- User management: students, teachers, admins
- Role-based access control
- Visa process tracking
- Appointment requests
- Attendance tracking (live classes)

3. Student Portal

- Register/login

- Profile creation
 - View/enroll in courses
 - Track course progress
 - Submit quizzes and see results
 - Review courses
 - Track visa application steps (if approved)
 - View attendance (online/offline)
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Module Breakdown

A. Course Module (LMS)

Types of Courses

1. **Free Courses:**
 2. YouTube-hosted (embedded in site)
 3. No progress tracking required
 4. May include optional quizzes
5. **Premium Courses:**
 6. Hosted on server/cloud (e.g., AWS S3)
 7. Custom HTML5 video player
 8. Track video watch percentage (80%+ to mark as complete)
 9. In-video quizzes that pause playback until completed

Quizzes

- MCQ, True/False, Short Answer
- Mandatory for premium course progression
- Embedded in video (Coursera-style)
- Results recorded per student

Course Completion Criteria

- Must complete 80% of all videos
 - Must complete mandatory quizzes
 - Statuses: Incomplete, In Progress, Completed
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B. Process Tracker (Visa Application)

- Admin defines visa process steps
 - Per student, admin marks each step complete
 - Students view their status in the portal
 - Steps appear only after admin enables visa application for that student
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C. Appointment Booking

- Public form to request appointments
 - Date/time slot picker (available slots only)
 - Admin dashboard view of requests
 - Approve/decline/reschedule
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D. Attendance Management

Online Classes:

- Zoom/Meet integration (optional)
- Join button visible to enrolled students
- Check-in/out tracked automatically

Offline Classes:

- Admin/teacher manually mark attendance
 - Optionally QR scan-based system
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E. Student Profile & Role Handling

- One account for both course and visa services
 - Profiles include educational history, test scores, uploads
 - Students may shift from "course-only" to "visa applicant" after admin approval
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Role Management (RBAC)

Roles:

- **Super Admin:** Full control (create roles/users)
- **Admin:** Content & course management
- **Teacher:** Assigned course access only
- **Student:** Limited to own data

Admin Controls:

- Create/manage teacher accounts
 - Assign specific course permissions
 - Moderate reviews
 - Manage content and visibility
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🛡️ Authentication & Authorization

- JWT-based login
 - Middleware to protect API routes
 - Role-based page/component rendering
 - Session expiration + refresh tokens
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📊 Reporting & Analytics

- Course progress per student
 - Quiz performance reports
 - Attendance summaries
 - Visa process status by stage
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📚 Suggested Tech Stack

Layer	Technology
Frontend	React.js / Next.js
Backend	Node.js / Express / Laravel
DB	MongoDB / PostgreSQL
Auth	JWT / Passport / Sanctum
Video Player	Plyr.js / Video.js
Hosting	Vercel / Render / VPS

Module Relationships (Text Map)

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[Public Website] <---> [CMS (Admin Blog/News/Events)]
|
|---> [Courses List] <---> [LMS Module] <---> [Admin / Teacher Panel]
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```
|----> [Appointment Form] ----> [Admin Appointment Manager]
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[Student Portal]
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|----> [My Courses] <----> [LMS + Quiz Tracking]
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|----> [Visa Process] <----> [Process Tracker]
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|----> [Attendance] <----> [Attendance Module]
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|----> [Submit Review] ----> [Admin Approval]
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MVP Development Roadmap

1. Admin Dashboard with Role Manager
 2. Student Auth & Profile
 3. LMS (Courses + Quizzes + Video Player + Reviews)
 4. Visa Tracker
 5. CMS (Blog, News, Events)
 6. Appointment System
 7. Attendance Module
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