Ad Dawah Ilallah Digital Campus (E-Maktab)

1. Executive Summary

Ad Dawah Ilallah Digital Campus (E-Maktab) is a comprehensive web-based educational and organizational management system designed to centralize and digitize the activities of **Ad Dawah Ilallah Institute**.

The platform will serve as an **electronic campus**, integrating student management, teacher management, academic operations, financial tracking, program registrations, consultation services, and organizational activities under one cohesive ecosystem.

It will ensure:

- Centralized access for administrators, teachers, students, and coordinators.
- Smooth usability across PC and mobile devices.
- Secure and scalable backend architecture.
- Integration with existing Ad Dawah Ilallah digital services (e.g., *Dawah ilallah App*, *Nibrash*, *Al-Itisam*).

2. Project Overview

Project Name

Ad Dawah Ilallah Digital Campus (E-Maktab)

Project Type

Web Application (Mobile Responsive)

Primary Users

- Students
- Educators / Teachers
- Course Coordinators (CC)
- Administrators
- Directors / Chairman

Core Vision

To provide a **digital hub** for Islamic education, dawah management, and community support — allowing every student, teacher, and admin to interact, learn, and manage resources seamlessly in a unified environment.

3. System Objectives

1. **Digital Transformation** – Replace manual or scattered systems with a centralized digital solution.
2. **Transparency & Accessibility** – Allow students and educators to view academic records, attendance, and finances online.
3. **Automation of Routine Tasks** – Automate attendance, billing, and results generation.
4. **Integration** – Connect with other Ad Dawah Ilallah platforms and internal communication tools.
5. **Scalability** – Design the system for expansion to multiple institutes, regions, and new programs.

4. System Scope

Scope Area	Description
Academic Management	Course registration, attendance, assignments, evaluations, feedback.
Financial Management	Tuition fees, donations, internal accounts, karje hasanah tracking.
Communication	Internal messaging, notifications, announcements, and comments.
Consultation	Online appointments for Ruqyah, Personal & Family consultancy, Addiction rehabilitation, and Fatawah (Offline and Online).
Affiliation	Affiliation application forms for Maktabs and Madrashas
Integration	Interfacing with Nibrash, Al-Itisam, Dawah ilallah App, and internal systems.
Multi-role System	Users can hold multiple roles (e.g., a teacher may also be a CC).
Mobile Responsiveness	Optimized UI for PC, tablet, and smartphone screens.

5. Core Modules and Functional Specifications

5.1 E-Maktab (Electronic Campus)

Description

The central module of the system — an integrated online campus containing all academic and student-related operations.

Functional Features

Feature	Description
Login System	Role-based sign-in (Student: ID + Pass; Others: Phone + Pass).
Dashboard	Role-specific dashboard with modules accessible based on permission level.
Profile Management	Editable personal data, academic ID, contact info, and role overview.
Notice Board	Same Notice or Notification System or Board for Personal and General Notices.
Running Courses	Attendance, HW (text/audio/image), CT & assignment tracking, lectures & materials.
Course Registration	Register for offered courses or view existing ones.
Class Routine	Weekly timetable with class type, time, and Zoom/YouTube links.
Results	View term results and assessment feedback.
Bills and Payments	Display course and supplementary fees; connect with internal finance system.
Books Library	Borrowed book records, access to PDFs and audio recordings.
Certificates	Auto-generated downloadable course certificates (PDF).

5.2 Admin and Multi-Level Access System

Role	Core Responsibilities
Chairman/Director	Full system control (super admin).
Admin	Account creation/deletion, troubleshooting, billing management, send general & personal notices.
Course Coordinator (CC)	Add and offer courses, upload recordings, send general & personal notices, manage exams and enrollments.
Educator	Conduct classes, take attendance, manage HW/assignments, upload lectures, publish announcements.

Role	Core Responsibilities
Student	Submit HWs, attend online/offline classes, view resources, access private videos.

5.3 Financial Module

Function	Description
Fee Management	Track course fees, supplementary fees, and due balances.
Donation Gateway	Integration with *Ad Dawah Ilallah Donations* platform.
Karje Hasanah	Manage benevolent loans, repayment tracking, and ledgers.
Internal Financial System	Manage organizational funds, expense records, and revenue categories.

5.4 Registration and Affiliation

Function	Description
Program Registration	Student and course registration interface with payment validation.
Madrasa Affiliation	Allow external madrasas to affiliate under Ad Dawah Ilallah and manage linked courses.

5.5 Dawati Sofor Management

Function	Description
Trip Planning	Manage da'wah trips, participants, itinerary, and logistics.
Documentation	Upload reports, photos, and follow-up actions for each sofor.

5.6 Online Appointment Module

Supports scheduling for multiple consultation categories:

- **Ruqyah & Addiction Rehabilitation**
- **Family Consultancy**
- **Personal Issues**
- **Fatawah Consultancy**

Function	Description
Appointment Booking	User selects category, date, and time.

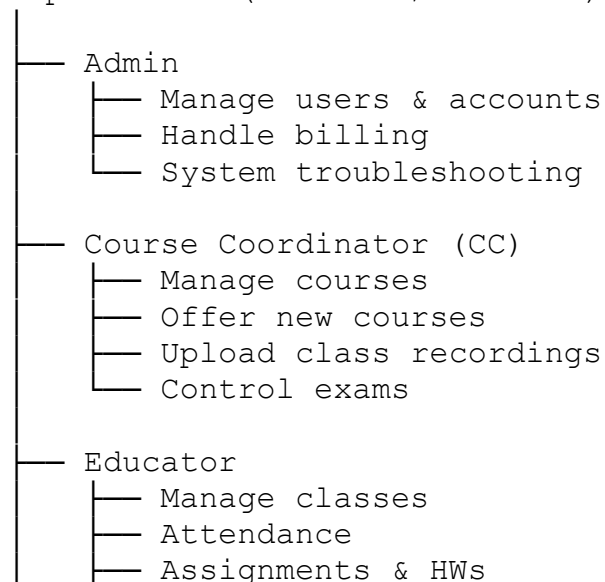| Function	Description
Admin Panel	Approve, reschedule, or assign consultants.
Notification	Email/SMS confirmation and reminders.

5.7 Fatawah Application System

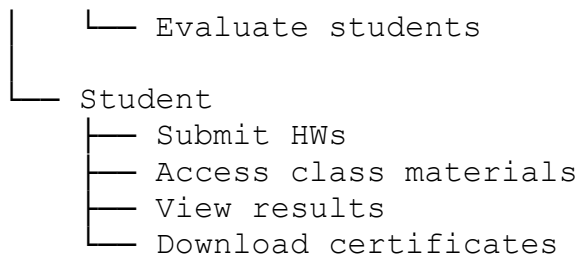| Function	Description
Fatawah Submission	Users can submit fatawah queries (text/audio).
Scholar Panel	Scholars review, discuss, and provide rulings.
Integration	Connects with **Nibras** or **Al-Itisam** for scholarly management.

5.8 Integration and Communication

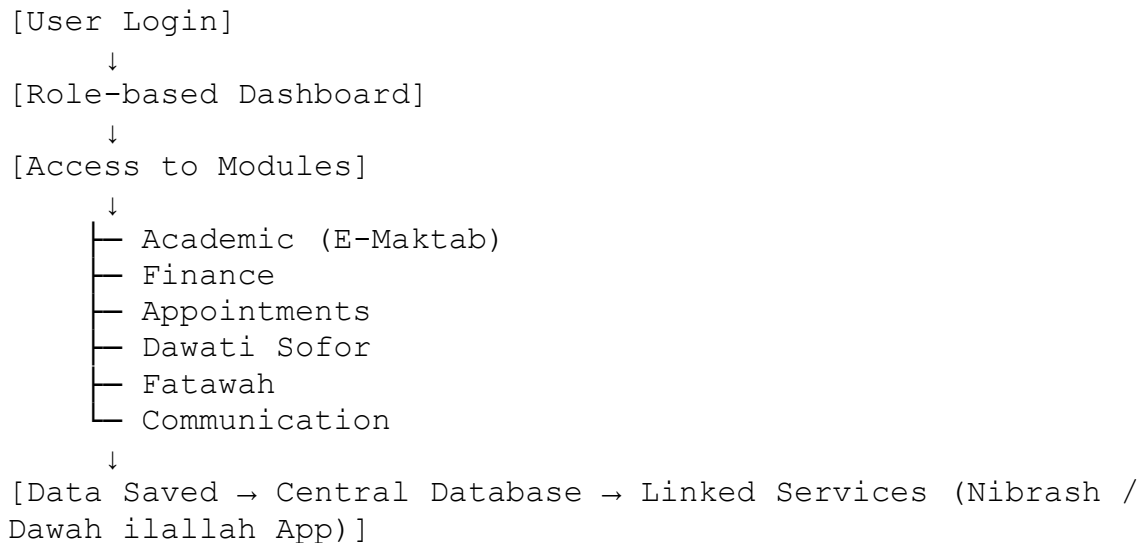| Integration Area	Description
Dawah ilallah App	Central link to the Ad Dawah ecosystem.
Internal Communication	Secure chat and announcements for admins and teachers.
Blood Group Management	Optional health database feature for Dawah members.
Realtime Features	Potential Uber/Pathao-like tracking system for on-field Dawah coordination.

6. User Roles and Access Hierarchy

```
Super Admin (Chairman/Director)
│
├── Admin
│    ├── Manage users & accounts
│    ├── Handle billing
│    └── System troubleshooting
│
├── Course Coordinator (CC)
│    ├── Manage courses
│    ├── Offer new courses
│    ├── Upload class recordings
│    └── Control exams
│
├── Educator
│    ├── Manage classes
│    ├── Attendance
│    ├── Assignments & HWs
```

```
      │        └── Evaluate students
      │
      └── Student
            ├── Submit HWs
            ├── Access class materials
            ├── View results
            └── Download certificates
```

7. System Workflow Overview

```
[User Login]
     ↓
[Role-based Dashboard]
     ↓
[Access to Modules]
       ↓
      ├── Academic (E-Maktab)
      ├── Finance
      ├── Appointments
      ├── Dawati Sofor
      ├── Fatawah
      └── Communication
      ↓
[Data Saved → Central Database → Linked Services (Nibrash /
Dawah ilallah App)]
```

8. Technical Architecture

Layer	Description
Frontend	Next.js and responsive layout for all devices.
Backend	Next.js (Express) or Django python.
Database	MySQL or PostgreSQL for relational data, MongoDB for document-based fatawah queries.
Authentication	JWT-based secure login system with role-based access control (RBAC).
Storage	Cloud (AWS S3 / Firebase) for recordings, PDFs, and multimedia HW submissions.
Deployment	Nginx reverse proxy, Docker containerization, hosted on AWS EC2 or DigitalOcean.

9. Database and Data Management Outline

- **Core Tables:** Users, Roles, Courses, Attendance, Assignments, Results, Finance, Appointments, Messages, Institutions, Donations, Karje Hasanah, Certificates.

- **Data Backups:** Automated daily snapshots.
- **Encryption:** Passwords hashed (bcrypt/argon2), sensitive data encrypted.
- **Media Management:** Organized folder structure with metadata indexing.

10. Security and Privacy Requirements

- SSL/TLS secured connections.
- Encrypted database storage for sensitive user data.
- Multi-factor authentication for admin logins.
- Access control via JWT + RBAC.
- Regular log audits and activity tracking.

11. Performance and Scalability

- Modular microservice-ready backend.
- CDN support for static assets.
- Lazy loading for large pages.
- Database indexing and query optimization.
- Ready for multi-institute expansion.

12. Platform and Device Compatibility

- Fully responsive design (Bootstrap/Tailwind).
- Compatible with modern browsers (Chrome, Edge, Firefox, Safari).
- Mobile-first design principles.
- Optimized for low-bandwidth environments.

13. Implementation Phases

Phase	Description
Phase 1	Core platform (User system, Dashboard, E-Maktab, Course management).
Phase 2	Financial module, Online appointments, Madrasa affiliation.
Phase 3	Dawati Sofor, Fatawah integration, Internal communication.
Phase 4	Real-time tracking, mobile app integration, performance optimization.

14. Future Expansion Opportunities

- Mobile app (React Native / Flutter).
- AI-based student performance analysis.
- Integration with LMS (Learning Management System) APIs.

- Arabic/Bangla/English localization support.
- Cloud-based video lecture hosting and live classes.

15. Summary

The **Ad Dawah Ilallah Digital Campus (E-Maktab)** aims to unify the educational, financial, and dawah operations of the organization through a secure, scalable, and responsive web platform.

It will act as the **digital backbone** of Ad Dawah Ilallah, enabling future growth, integration, and efficiency in both teaching and management.