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EduSphere is an advanced platform designed to simplify the management of Training Centers.

EduSphere

One Step Solution in Education

**EduSphere | Documentation**

**Objective:** EduSphere is an advanced platform designed to simplify the management of Training Centers. It provides comprehensive features like course management (short-term and placement-oriented courses), student tracking (inquiries, enrollments, and reports), assignment handling, and batch-specific progress monitoring. With modules for trainer profiles, fee tracking, and role-based administrative panels (admin, super admin, and management staff), EduSphere integrates physical roles and functional features into a unified solution. Its scalable, customizable, and secure architecture ensures streamlined operations, enhanced engagement, and data-driven decision-making, enabling institutes to focus on delivering quality education while optimizing management complexities.

**What is EduSphere?**

**EduSphere** is a cutting-edge platform designed to streamline and manage every aspect of coaching and training institutes. Key features include:

1. **Course Management**: Handle diverse offerings such as short-term courses and placement-oriented programs, along with their syllabi.
2. **Student Management**: Manage enrolled students, track inquiries, search for specific courses, and generate detailed student reports.
3. **Assignment Module**: Facilitate smooth assignment creation, distribution, and tracking.
4. **Course Tracker**: Monitor course progress based on batches.
5. **Trainer Management**: Efficiently manage trainer profiles, schedules, and responsibilities.
6. **Fees Management**: Simplify fee tracking with respect to courses and batches.
7. **Administrative Panels**: Provide tailored functionality for management staff, and admin.

This comprehensive platform integrates all these modules into one solution, enabling seamless operations and enhanced productivity for coaching institutes.

**Why Choose EduSphere?**

1. **Comprehensive Solution:** EduSphere combines course management, student tracking, trainer scheduling, and fee management into a single, user-friendly platform, eliminating the need for multiple tools.
2. **Customizable for Coaching Needs:** Designed specifically for coaching and training institutes, EduSphere caters to unique requirements like placement-oriented courses, batch-specific tracking, and tailored assignment modules.
3. **Streamlined Operations**: With dedicated panels for admin, super admin, and management staff, EduSphere ensures efficient role-based access and operations.
4. **Enhanced Student Engagement:** Track students from inquiry to enrollment, monitor their progress, and generate insightful reports to improve engagement and outcomes.
5. **Trainer and Course Optimization:** Manage trainer schedules, monitor batch progress, and keep syllabi on track, ensuring high-quality education delivery.
6. **Time and Cost Efficiency:** Automate routine processes like fee collection and student reporting, saving time and reducing manual effort.
7. **Data-Driven Decisions:** Generate comprehensive reports to analyze performance, identify gaps, and optimize institute operations.
8. **Scalable and Secure:** Built to grow with your institute, EduSphere is a reliable and secure solution for managing coaching institutes of any size.

With EduSphere, coaching institutes can focus on delivering quality education while the platform takes care of the management complexities.

**Categorization of Modules**

1. **Physical Entity-Based Modules**  
   These modules revolve around real-world roles or entities that interact with the system.
   1. **Admin Module**: Handles administrative tasks such as managing employees, managing courses, and generating reports.
   2. **Student Module**: Deals with student-related activities like course enrollment, assignments, and tracking progress.
   3. **Employee Module**: Comprises of Trainers and Management Staff.
2. **Functional/Feature-Based Modules**  
   These modules focus on system functionality rather than specific roles.
   1. **Course Module**: Manages course creation, syllabus updates, and course-specific reports.
   2. **Batch Module**: Organizes and tracks batch-specific activities, including student attendance and course progress.
   3. **Assignment Module**: Facilitates assignment creation, submission, and feedback.
   4. **Fees Module**: Tracks fee payments and generates financial reports.

**Roles and Responsibilities of Each Module**

**1. Admin Module**

**Roles:**

* Admin is responsible for managing the core operations of the EduSphere.
* They ensure that all courses, users (Student, Trainers and management Staff), and reports are maintained properly.

**Responsibilities:**

* Admin logins into the system to track and manage courses, students, trainers and management staff.
* Admin can approve trainers, and management staff in the system.
* Add, update, and delete courses, including their syllabi and schedules.
* Allocate batches to trainers and students.
* Approve and manage reports for students, courses, assignments, batches and financial transactions.
* Track overall platform activity and resolve operational issues
* Additionally, admin can update its password
* Admin can also approve Employee leaves.
* Admin can view Student attendance.
* Admin can initiate courses for short term (C, Java etc.) and placement oriented (6 months training).

**2. Employee Module**

**Roles:**

* Trainers focus on delivering course content, managing assignments, and monitoring student performance.
* They serve as facilitators for student learning within the system.
* Also Managing staff is responsible for managing the student and system.

**Responsibilities:**

* Trainer is responsible for the creation of short-term and placement-oriented course content as per the available course (along with CRUD operation) and send it to admin for approval.
* Trainer is responsible for the creation of assignment (along with CRUD operation) and Provide feedback and grades for submitted assignments and also send it to admin for approval.
* Trainer is responsible for generating Students Report (along with CRUD operation) and also put attendance.
* Trainers and Managing Staff can update their profile and also update password.
* At the First time, Trainers and Managing Staff needs to verify themselves by email.
* Trainers and Managing Staff can apply for leave through the system.
* Managing staff creates batch and send it to admin for approval and allocation.

**3. Student Module**

**Roles:**

* Students interact with this module to engage in their educational journey.
* Their role is to access course material, complete assignments, and track their progress.

**Responsibilities:**

* Student can take enquiry for any specific course.
* Enroll in courses and batches.
* View and download syllabi, assignments, and course-related content.
* Submit assignments and receive feedback from trainers.
* Track their progress and performance in specific courses or batches.
* Communicate with trainers or admins for queries and support.
* Student can update their profile and also update password.

**Technology Stack**

* **Frontend**: Html5, CSS3, Bootstrap5, JavaScript, ReactJS
* **Backend**: NodeJS
* **Framework**: ExpressJS
* **Database**: MongoDB
* **Tool for Database**: ODM Tool - Mongoose
* **Operating System**: Windows-11
* **RAM**: Minimum 4GB
* **Version Control**: Git and GitHub
* **Processor**: inteli3 and above
* **Hard disk**: Minimum 50 GB
* **Development Tool**: VS Code