

# Abstract

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## EduSphere Fusion

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## **EduSphere Fusion**

EduSphere Fusion is a Foreign Study Management System with E-Learning is a comprehensive platform that empowers international colleges to share real-time updates and offer online courses with exams and certifications. Users worldwide can follow colleges, enroll in courses, and receive personalized recommendations. The platform features college search and filtering, a public queries tab for open discussions, and anonymous replies. Users can rate colleges, aiding in tailored recommendations based on ratings, search history, and preferences. Admin controls enable user and college management.

### **Technologies**

Frontend : HTML/CSS

Backend : Python Django

### **Major Modules**

- Admin
- User
  - Student
  - Colleges
  - Tutor

### **Admin**

EduSphere Fusion provides admin with comprehensive tools for managing user account, overseeing the organization and structure of the platform and ensuring smooth operation. They play a crucial role in maintaining the integrity and security of the system, as well as ensuring the best experience for users.

## Student/User

EduSphere Fusion provides best experience for users. Enabling them to easily search and find colleges based on their preferences and enroll into the college directly without any intermediaries. Also they will be able purchase and use the e-courses provided by the international colleges in their pages and get certificates. Users can ask queries in the public domain in the page which will facilitate user awareness about colleges and other relevant doubts about foreign education.

## Colleges

Colleges can create their pages, providing more information regarding the institute. Also the chatbot system will help users to clarify most relevant questions regarding the college. Colleges can also provide their real-time news feed as well. The institutions can provide online courses in their page.

## Tutor

Another one important module in the project is the tutor. The tutor/user can apply for the tutorship. The admin will accept the tutors only based on their qualifications in the relevant field such as multilingual knowledge or expertise in any specific language. Providing the best and guaranteed professionals support training such as IELTS, OET and other language tests that are needed for foreign university admissions.

## Modules and Functionalities

### Admin

1. User and College Management.
2. Adding Colleges.
3. Verifying and Adding Tutors.
4. Verifying the Documents for College Admission.
5. Verifying College Identity Card and Providing Badge.
6. Monitoring the public chat/queries.
7. Adding study materials for IELTS or OET etc.
8. Providing Support.

9. Monetization.
10. Adding free courses.

### Student/User

1. Registration.
2. Login and Reset/Forget Password.
3. Account Management.
4. Search and Filter Colleges based on preferences.
5. Apply to suggested colleges and with subscription apply to many colleges at a single time.
6. Ask queries in the public domain and get notifications for replies.
7. Enroll into E-courses and language trainings.
8. Watch course progress and see course completion certificates.
9. Read course contents and also use free AI-based language evaluation for reading and writing. AI-driven speech recognition for pronunciation.
10. Track status of the application.

### Colleges

1. Colleges can create profile.
2. Manage profile.
3. Upload/Update real-time news feed.
4. Add E-Courses.
5. Provide Support for users.
6. Providing scholarships.
7. Conducting webinars and quizzes.
8. Chatbot for user support.

### Tutor

1. Apply for tutorship.
2. Login-Reset/Forget Password.
3. Make students community.
4. Conduct live videocall.
5. Upload and provide study materials for users.

6. Conduct examination.
7. Schedule classes.
8. Send notifications about classes to the enrolled candidates.
9. See users who enrolled in the course.
10. Monetization.
11. Grouping users based on location.

### **Functionalities to be implemented in Mini Project (S3)**

#### **Admin**

1. User and College Management.
2. Adding Colleges.
3. Verifying the Documents for College Admission.
4. Providing Support.
5. Monetization.

#### **Student/User**

1. Registration.
2. Login and Reset/Forget Password.
3. Account Management.
4. Search and Filter Colleges based on preferences.
5. Apply to suggested colleges and with subscription apply to many colleges at a single time.
6. Ask queries in the public domain and get notifications for replies.
7. Enroll into E-courses.
8. Watch course progress and see course completion certificates.
9. Make payment.

## Colleges

1. Colleges can create profile.
2. Manage profile.
3. Upload/Update real-time news feed.
4. Add E-Courses.
5. Provide Support for users.
6. Make payment.

## **Functionalities to be implemented in Main Project (S4)**

### Admin

1. Verifying and Adding Tutors.
2. Verifying College Identity Card and Providing Badge.
3. Monitoring the public chat/queries.
4. Adding study materials for IELTS or OET etc.
5. Adding free courses.
6. Analytics and Insights Dashboard : Display metrics on user engagement, popular courses, active colleges, and more.
7. User Moderation and Reporting : admin to moderate user-generated content and handle inappropriate behavior.
8. Censor queries in the public chat.
9. Admin can monitor suspicious activities, manage user verification, and implement security protocols for more secure and effective admission programs.
10. Multilanguage Support.

### Student/user

1. Enroll into language trainings.
2. Read course contents and also use free AI-based language evaluation for reading and writing. AI-driven speech recognition for pronunciation.

3. Track status of the application.
4. create and join virtual study groups based on shared language goals or course interests.
5. User-Generated Content Hub: A space where users can contribute language-related content, such as blog posts, articles, or language tips.
6. interactive language challenges with real-time leaderboards and rewards.

### Colleges

1. Providing scholarships.
2. Conducting webinars and quizzes.
3. Chatbot for user support.

### Tutor

1. Apply for tutorship.
2. Login-Reset/Forget Password.
3. Make students community.
4. Conduct live videocall.
5. Upload and provide study materials for users.
6. Conduct examination.
7. Schedule classes.
8. Send notifications about classes to the enrolled candidates.
9. See users who enrolled in the course.
10. Monetization.
11. Grouping users based on location.

## **Features in more details**

### **1. Real-Time Feed and E-Learning:**

Responsibilities: This allows colleges to post real-time updates and online courses for users. Admin can also add colleges and provide e-courses. It manages the content distribution and presentation of e-learning materials.

Key Functions: Enable college updates in real-time; provide a platform for colleges to upload e-learning courses, exams, and certificates. Allow users to track their progress within e-learning courses.

### **2. Personalized Recommendations:**

Responsibilities: This provides personalized course and college recommendations based on user search history and preferences. Subscribed users will get more recommendation and also able to apply as many colleges at a time.

Key Functions: Analyze user search history and preferences to generate tailored recommendations and also based on their marks and criteria that given in the search ; display recommendations to users. Quick enrollment to the university course; leaving intermediaries and slow process.

### **3. College Search and Filtering:**

Responsibilities: This enables users to search and filter colleges based on various criteria.

Key Functions: Implement a search bar to find colleges by name; provide filters for location, ratings, college fees and degree subjects.

### **4. Public Queries:**



**Responsibilities:** This facilitates open discussions through public queries, allowing users to ask questions and receive answers from the community.

**Key Functions:** Allow users to submit queries about colleges and topics; display queries publicly; enable users to reply to queries.

### **5. Anonymous Replies:**

**Responsibilities:** Allows users to respond to queries while staying anonymous.

**Key Functions:** Provide an option to reply to queries without revealing identity; maintain responder anonymity.

### **6. User and College Management:**

**Responsibilities:** Admin controls to manage users and colleges within the platform.

Admin can also add new colleges and courses into the list which will help users to get aware of more international colleges.

**Key Functions:** Admin dashboard for user and college management; user verification and privileges. Add new colleges.

### **7. College Ratings:**

**Responsibilities:** Enables users to rate colleges, providing valuable feedback for improved recommendations.

**Key Functions:** Allow users to rate colleges based on their experiences; use ratings to enhance personalized suggestions.

### **8. Application Management:**

Allow users to apply to colleges directly through the platform, streamlining the application process.

#### **9. Scholarships and Financial Aid Information:**

Provide information about available scholarships, grants, and financial aid opportunities and also allow users to apply for the scholarships.

#### **10. Verified Identity:**

Allow students to upload a college identity card image.

Display a badge next to students who have uploaded their identity cards and verified by the college itself.

#### **11. IELTS and Language Learning Assistance:**

Responsibilities: Offer resources and tools to help users improve their language skills, especially for exams like IELTS.

Key Functions: Provide practice tests, vocabulary builders, grammar exercises, and language learning tips.

Advanced Feature: Integrate AI-based language evaluation to assess users' speaking and writing skills, AI-driven speech recognition to provide real-time feedback on pronunciation and fluency.

#### **12. Language Mentors and Live Video Communication:**

Responsibilities: Allow users to connect with language mentors for personalized assistance. Mentors or Tutors are selected by admin itself based on their qualification.

Key Functions: Users can schedule live video sessions with mentors, getting guidance, feedback, and tips for language improvement.

Advanced Feature: Implement language analysis to track users' progress over time and suggest targeted learning materials.

### **13. Language Learning Groups:**

Responsibilities: Enable users to form study groups for collaborative language learning.

Key Functions: Users can create groups, invite others, and communicate via text, voice, or video.

Advanced Feature: Use AI to match users with similar language learning goals, enabling more effective group collaboration.