

ABSTRACT – **EDUSPHERE FUSION**

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REG. MCA(2022-2024)B

ROLL NO:49

ABSTRACT

EduSphere Fusion is a groundbreaking online platform redefining the global education landscape. Combining a Foreign Study Management System with an e-learning platform, it offers a comprehensive solution to educational needs worldwide. The platform features three key modules: Admin, User, and College, Content Creators each tailored to meet specific user requirements.

The Admin module focuses on managing user and college accounts, overseeing public posts, and implementing monetization strategies. It also provides essential support for the smooth operation of the platform. The User module allows registration, login, and profile management, granting access to a diverse array of online courses from top international colleges. Users can engage with educational content, participate in public discussions, and track their educational progress. Additionally, new responsibilities include viewing and showcasing achievements, receiving course suggestions, accessing payment history, posting queries in the public domain, and creating communities with invitations to other users.

The College module empowers educational institutions to manage profiles, upload educational content, and interact with potential students. New responsibilities involve obtaining fee suggestions when adding new courses and accessing information about the most enrolled course topics, utilizing machine learning algorithms.

The introduction of a Content Creators module enhances the platform, allowing individuals to add courses, create communities, post course updates in the public feed, and schedule live classes.

A distinctive feature of EduSphere Fusion is the Language Buddy, a

machine learning-powered chatbot system. Employing NLP, speech recognition, and sentiment analysis, Language Buddy offers real-time pronunciation assessments, personalized course recommendations, and a dynamic language learning journey. Users' progress is stored, and the chatbot guides them through sentence pronunciation exercises, categorizing their language proficiency and recommending courses to improve learning.

Technologically, EduSphere Fusion integrates advanced tools such as Python Django for backend development, SQLite3 for database management, and a frontend combination of HTML, CSS, JavaScript, and Bootstrap. The platform positions itself as a leader in the digital education space, providing a gateway to global educational opportunities and fostering accessibility, interactivity, and efficiency in learning.

Major Modules

- **Admin**
- **User**
 - Student/Normal User
 - Colleges
 - Content Creators

Modules and Functionalities

1. Admin Module:

- Manages user and college accounts.
- Oversees public posts and implements monetization strategies.
- Provides essential support for smooth platform operation.

2. User Module :

- Registration, login, and profile management.
- Access to online courses from top international colleges.
- Engagement with educational content and participation in public discussions.
- Tracking educational progress.
- View and showcase achievements.
- Receive course suggestions.
- See payment history.
- Post queries in the public domain.
- Create a community and invite users.

3. College Module :

- Registration, login, and profile management.
- Manages profiles, uploads educational content.
- Interacts with potential students.
- Gets fee suggestions when adding new courses.
- Access information about most enrolled course topics using machine learning algorithms.
- Posts updates in the public feed.

4. Content Creators Module:

- Registration, login, and profile management.
- Adds courses to the platform.
- Creates community.
- Posts course updates in the public feed.
- Schedules live classes.

5. Public Query Place:

- Allows users to post doubts or queries.
- Enables users to get replies from other users in the platform.

6. Language Buddy (Machine Learning implemented chatbot system):

- Utilizes NLP, speech recognition, and sentiment analysis.
- Provides real-time pronunciation assessments.
- Offers personalized course recommendations.
- Supports an engaging language learning journey.
- Stores user progress in pronunciation.
- Recommends courses based on the user's language learning needs.