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What is the Motivation for Eduverse ?

(Description of the Problem the App Will Solve)



Current learning platforms often fail to:

- Provide personalized feedback and dynamic problem-solving tools for students.
- Offer an intuitive and integrated system for course creators to manage and enhance their content efficiently.
- Use AI and automation for grading, engagement, and learning improvement while keeping everything centralized.





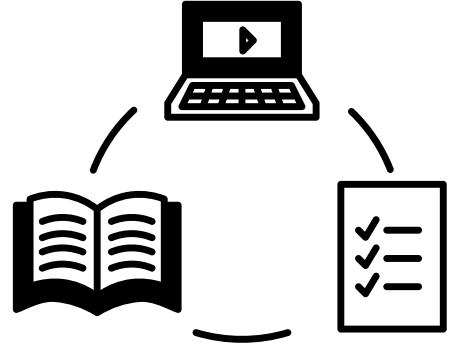
What is EduVerse?



EDUVERSE

EduVerse is an AI Powered online education ecosystem designed for students and course creators.

Key Points of The Project



Course Creation Tool

Instructors can easily create and preview courses with a drag-and-drop builder, AI-generated content, and a student-view mode.



Materials Storage

Secure cloud storage supports various content types, with options for live streaming, pre-recorded lessons, and efficient material management.



AI-Powered Personalized Learning

An AI assistant provides students with clarifications, practice resources, topic explanations, and personalized performance feedback.



Automated Grading System

AI grades quizzes instantly, provides detailed feedback, and allows customizable criteria.



Interactive Dashboard

Students track progress while tutors monitor activities and give feedback.



Real-Time Communication

Enables direct and group chats for interaction and collaborative learning.

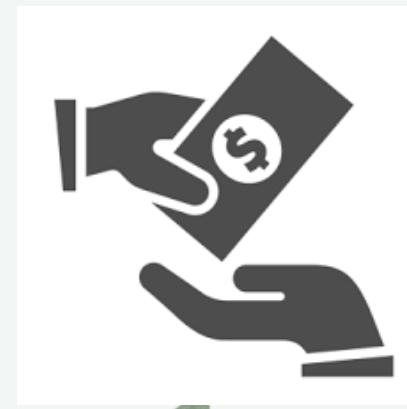


Certificates and Digital Badges

Generates certificates and shareable badges, with potential LinkedIn integration.

Payment Gateway and Monetization Options

Offers subscriptions, premium instructor features, payment gateways, and automated invoicing.



Key Features in Implementation

- **AI-Driven Guidance**
- **Real-Time Communication**
- **Secure Authentication System**
- **Microservices Architecture**
 - **User Service:** Manages user profiles for students, teachers, and admins.
 - **Course Service:** Handles course creation, ratings, and distribution of learning modules.
 - **Chat Service:** Manages real-time chat functionality and notifications.
 - **Payment Service:** Enables secure course subscriptions and tracks payments.
 - **API-GateWay Service:** An API Gateway is a single entry point that routes, secures, monitors, and manages requests between clients and backend microservices.
 - **AI Services:** AI services in Eduverse can provide personalized learning, real-time tutoring, automated grading, and intelligent content recommendations to enhance the education experience.
- **Payment Gateway Integration**
- **Interactive Dashboard**

Technological Stack

Frontend

- React.js for building a dynamic and responsive UI.
- Tailwind CSS or Bootstrap for modern and intuitive design.

Backend

- Node.js (Express.js) for robust and scalable server-side processing.
- Socket.IO for real-time communication features.

Database

- MongoDB for document storing

Cloud and Deployment

- Firebase for file and image storing
- Railway or AWS for deploying microservices seamlessly.

AI Integration

1. Azure OpenAI API for intelligent chatbot and personalized learning recommendations.

Thanks