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GUVI-CHUBB: A Online Learning Platform for Skill Development

The GUVI-CHUBB Capstone Project is a dynamic and interactive online learning platform designed to foster skill development and knowledge sharing.

Project Architecture: Frontend

Angular 17

A robust, scalable, and modular frontend framework ensuring a high-quality user experience.

Tailwind CSS

A utility-first CSS framework offering a visually appealing and responsive interface.

Angular Material UI

Provides pre-built components for a user-friendly and accessible interface.

Project Architecture: Backend

ASP.NET Web API

A powerful and reliable backend system with a robust API architecture.

Models, Controllers, Migrations

Provides efficient data management and facilitates smooth data exchange between the frontend and backend.

API Integration

Leverages pre-existing APIs for enhanced functionality and integration capabilities.

User Roles and Features

Administrator

Manage user accounts, view platform statistics, and monitor system performance.

Instructor

Create, upload, and manage course content, monitor learner engagement, and provide feedback.

Learner

Access a wide range of courses, track progress, and take quizzes and assessments.



Enhancing the Learning Experience

Custom Quiz
Generator

Leverages the Grok/OpenAl API to generate dynamic quizzes based on specific topics.

2 Real-Time Course Recommendations

Personalized course suggestions based on learner behavior and interests, powered by machine learning models.

3 Interactive Content Management

Instructors can organize content for improved accessibility and engagement.



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Data Visualization and Insights



Real-Time Metrics

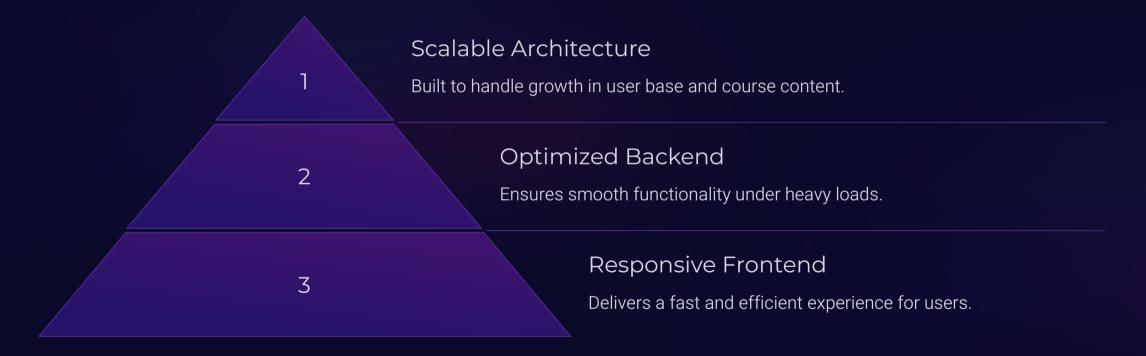
Provides actionable insights into user behavior and platform performance.



Data-Driven Decisions

Enables informed decision-making for administrators and instructors.

Scalability and Performance



Security and Privacy

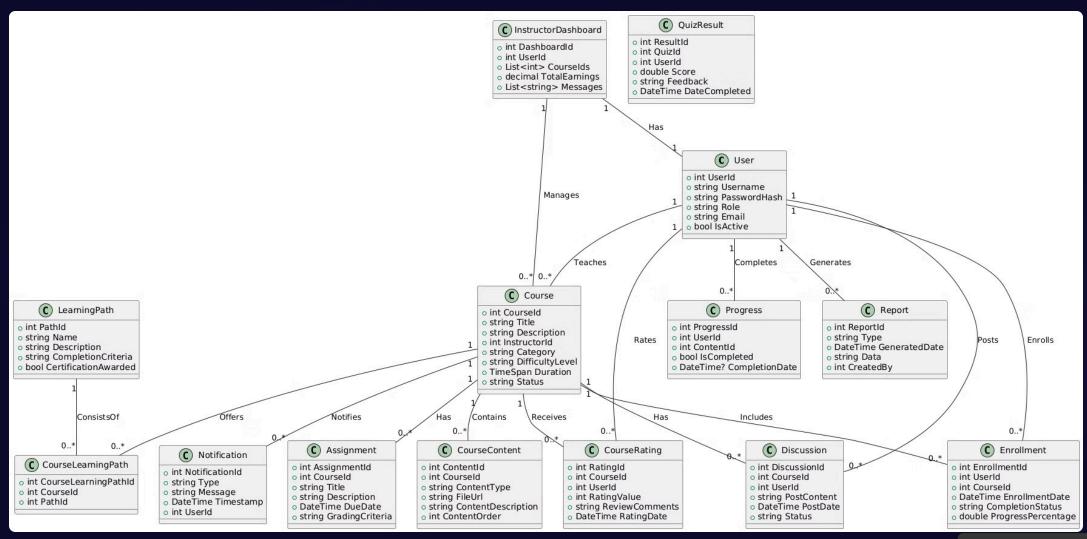
Role-Based Authentication Protects sensitive data and ensures authorized access. Secure Protocols Prevents unauthorized access and complies with industry standards. Regular Monitoring & Updates Addresses emerging security challenges and ensures ongoing protection.



Conclusion

The GUVI-CHUBB Capstone Project represents a revolutionary approach to online learning, combining advanced technologies with a user-centric design.

Class Diagram Details





PUT	/api/Enrollment/progress/{courseId}/user/{userId}	
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POST	/api/Enrollment/learningpath/{pathId}/user/{userId}	
GET	/api/Enrollment/{enrollmentId}	
GET	/api/Enrollment/user/{userId}/courses	
GET	/api/Enrollment/total/enrollments/count	
Feedba	Feedback	
POST	/api/Feedback	
GET	/api/Feedback/{id}	
GET	/api/Feedback/course/{courseId}	
GET	/api/Feedback/user/{userId}	
Learni	LearningPath	
POST	/api/LearningPath	
GET	/api/LearningPath	
GET	/api/LearningPath/{id}	
PUT	/api/LearningPath/{id}	

