Project Design Phase

Date	26 June 2025
Team ID	LTVIP2025TMID33995
Project Name	EDUTUTOR AI – Personalized AI-Powered Learning Platform
Maximum Marks	2 Marks

Problem

- Students struggle with finding personalized learning resources tailored to their strengths and weaknesses.

- Traditional platforms do not adapt based on performance, nor do they offer smart feedback loops.

- Teachers are unable to monitor individual student progress in real-time.

- There is no integration between intelligent quiz generation, performance tracking, and classroom systems like Google Classroom.

Solution

- EduTutor AI leverages IBM WatsonX to generate personalized quizzes based on student input and performance.

- It tracks quiz history and learning trends using Pinecone vector database for intelligent progress analysis.

- The system provides dashboards for both students and educators using Streamlit UI, and integrates Google OAuth for seamless login and Classroom syncing.

- Real-time analytics and feedback empower teachers to take timely actions while students receive instant, customized support.

How the Solution Fits the Problem

Problem	Matching Solution
Students receive generic, non-personalized content	AI-generated quizzes tailored to each student's learning path
Teachers can't track real-time progress	Dashboards with detailed performance analytics for each student
Lack of integration with LMS tools	Full sync with Google Classroom via Google Login
No feedback loop to improve based on results	Quiz history stored in Pinecone for adaptive learning suggestions
Students feel unsupported and overwhelmed	Simple UI with focused feedback and instant quiz insights