

Project Design Phase – Proposed Solution

Date: 28 JUNE 2025

Team ID: LTVIP2025TMID35893

Project Name: edututor ai: personalized learning with generative ai and lms

Maximum Marks: 2 Marks

Proposed Solution Table

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Students often struggle to get immediate, accurate academic support outside traditional classroom hours. Existing solutions are either too generic or lack personalized feedback.
2	Idea / Solution description	Edututor AI is a real-time AI tutoring assistant powered by Hugging Face's IBM Granite model. It allows students to ask academic questions and receive instant, contextually relevant answers. The platform also includes a feedback sentiment analysis module to assess content usefulness.
3	Novelty / Uniqueness	Unlike standard educational bots or static resources, Edututor AI employs generative AI to deliver personalized responses and adapts to individual learning needs. It also tracks and interprets sentiment in feedback to improve instructional strategies.
4	Social Impact / Customer Satisfaction	Increases access to quality academic help anytime, enhancing educational equity. Reduces learning gaps and supports students in remote or underserved areas. Provides educators with insights through aggregated feedback analysis.
5	Business Model (Revenue Model)	Free for individual learners. Institutions or EdTech providers can license the platform with additional features like analytics dashboards and curriculum integration, available via subscription.
6	Scalability of the Solution	Built using modular architecture with FastAPI and Hugging Face, Edututor AI supports horizontal scaling, multilingual capabilities, and potential for expansion into subject-specific or exam-focused tutoring.