

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date: 28 June 2025

Team ID: LTVIP2025TMID35893

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

Maximum Marks: 4 Marks

Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Interaction	Any student can access the tutor without login; open access via browser.
FR-2	Smart Tutoring System	Ask academic questions and get AI-generated answers using GPT via Hugging Face API and FastAPI.
FR-3	Feedback Sentiment Analysis	Submit feedback, analyze sentiment, and show results on dashboard.
FR-4	Mode Selection	Switch between 'Tutoring' and 'Feedback' modes with corresponding UI updates.
FR-5	Deployment & Accessibility	Hosted and run on Google Colab; public access enabled via Ngrok link.

Non-Functional Requirements

NFR No.	Description
NFR-1	User-friendly HTML/CSS interface requiring no prior training.
NFR-2	Public access with plans for future secure

login/API tokens.

NFR-3	Returns reliable responses for tutoring and feedback queries.
NFR-4	Optimized FastAPI + Hugging Face for under 3-second response.
NFR-5	Accessible 24/7 via public Colab + Ngrok link.
NFR-6	Scalable design for additional traffic and education services.