

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	26 June 2025
Team ID	LTVIP2025TMID33995
Project Name	EDUTUTOR AI – Personalized AI-Powered Learning Platform
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Google OAuth
FR-2	Quiz Input	Select topic, number of questions
FR-3	Quiz Generation	Generate quiz using IBM WatsonX API Parse and display MCQs in Streamlit UI
FR-4	Quiz Submission & Scoring	Submit answers Compute score and show correct answers
FR-5	Quiz History	Store quiz data in Pinecone Retrieve quiz history for display
FR-6	Student Dashboard	Display performance summary
FR-7	Educator Dashboard	View all student scores and trends
FR-8	Google Classroom Integration	Sync student list and data from Google Classroom

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No. Non-Functional Requirement

NFR-1 Fast quiz generation under 5 seconds

NFR-2 Secure login via Google OAuth

NFR-3 Availability of system > 95% uptime

NFR No. Non-Functional Requirement

NFR-4 Data consistency and reliable storage

NFR-5 Responsive UI (accessible on any device)

NFR-6 Scalable backend for handling many users