

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

Date	27 June 2025
Team ID	LTVIP2025TMID32976
Project Name	EduTutor AI: Personalized Learning with Generative AI and LMS Integration
Maximum Marks	4 Marks

## Functional Requirements

The following are the core functional requirements for the EduTutor AI application, based strictly on the current feature set outlined in the README.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Input Handling	Accept topic input from user through a text field
FR-2	Explanation Generation	Send topic to IBM Watsonx model Display explanation using Streamlit
FR-3	MCQ Generation	Generate multiple-choice questions (MCQs) from the given topic Display MCQs with correct answers
FR-4	Credential Configuration	Allow user to enter IBM Watsonx API key and project ID in app.py

## Non-Functional Requirements

The following are the non-functional requirements for the current version of EduTutor AI.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Streamlit interface should be simple and intuitive for quick interaction.
NFR-2	Security	IBM Watsonx credentials should be kept secure and not hard-coded for public use.
NFR-3	Reliability	System should consistently produce valid explanations and MCQs for well-formed inputs.

NFR-4	Performance	Output should be generated within 2–4 seconds under normal load.
NFR-5	Deployment Simplicity	App should run with minimal setup using 'streamlit run app.py'.