# Project Design Phase-II

## Solution Requirements (Functional & Non-functional)

Date: 21 June 2025

Team ID: LTVIP2025TMID32094

Project Name: EduTutor AI – Personalized Learning with Generative AI

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 | Form-based signup, Role selection (Student/Educator) |
| FR-2 | User Login | Email/password verification, Role-based redirection |
| FR-3 | Quiz Generation | AI-generated quizzes based on topic and difficulty |
| FR-4 | Learning Module | Generate and save custom AI modules to user library |
| FR-5 | Dashboard & Analytics | Student: quiz history, Educator: performance charts |
| FR-6 | Quiz History | Track, view, and retake quizzes by topic |
| FR-7 | Educator Tools | Access to student data and progress visualization |

## Non-functional Requirements

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

|  |  |
| --- | --- |
| NFR No. | Non-Functional Requirement Description |
| NFR-1 | Usability – Simple Streamlit interface with accessible navigation for all users. |
| NFR-2 | Security – User authentication and access controls to protect user data. |
| NFR-3 | Reliability – JSON-based storage ensures consistent data retrieval. |
| NFR-4 | Performance – Lightweight operations using efficient model/API calls. |
| NFR-5 | Availability – Platform available 24/7 with local or cloud-hosted deployment. |
| NFR-6 | Scalability – Future integration with Firebase/PostgreSQL for large user base. |