**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| **Date**: | 27 June 2025 |
| **Team ID**: | LTVIP2025TMID30306 |
| **Project Name**: | EduTutor AI: Personalized Learning with Generative AI and LMS Integration |
| **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 Form Registration through Gmail Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | AI Tutor | Query answering through chat Follow-up question support Knowledge-based search |
| FR-4 | LMS Integration | Course content display Lesson tracking Quiz linking |
| FR-5 | Personalized Quiz | Generate quiz based on past results Adaptive difficulty |
| FR-6 | Feedback System | Quiz result feedback Study suggestions |
| FR-7 | User Management (Admin) | View/Delete users Reset user credentials |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | The system should have an intuitive interface for students to interact with the AI tutor and LMS. |
| NFR-2 | Security | All user data must be securely stored and transmitted with encryption. |
| NFR-3 | Reliability | The system must provide consistent and correct recommendations. |
| NFR-4 | Performance | The AI should respond to user queries within 2 seconds. |
| NFR-5 | Availability | System must be accessible 99% of the time (except maintenance). |
| NFR-6 | Scalability | The platform should support 1000+ concurrent users. |