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

| Date | 27 June 2025 |
|------|--------------|
| Team ID | LTVIP2025TMID29500 |
| Project Name | EduTutor-AI_personalized-learning-withgenerative-ai-and-lms-integration |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

| NFR No. | Non-Functional Requirement | Description |
|---------|----------------------------|-------------|
| NFR-1 | **Usability** | The system should provide a user-friendly interface with intuitive navigation for students, parents, and educators. |
| NFR-2 | **Security** | The application must ensure secure login, data encryption, and protection against unauthorized access, following OWASP standards. |

| | | The system should be consistently available with minimal downtime and ensure data accuracy and backup recovery. |
|---|---|---|
| NFR-3 | **Reliability** | |

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 | Quiz Generation | Generate quiz based on subject/topic |
| | | Generate quiz based on difficulty level |
| | | Use AI to create new questions dynamically |
| FR-4 | Quiz Attempt & Evaluation | Start quiz with timer |
| | | Submit quiz and auto-grade |
| | | View score and correct answers with solutions |

**Non-functional Requirements:**

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

| NFR-4 | **Performance** | The system should handle multiple quiz submissions simultaneously with quick response times and low latency. |
|---|---|---|
| NFR-5 | **Availability** | The solution must be available 24/7 with cloud infrastructure support, including failover mechanisms. |