Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date : 19 July 2025

Team ID : LTVIP2025TMID33417

Project Name

Personalized Learning: Generative AI & LMS Integration

Maximum Marks

4 Marks

Functional Requirements

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 Profile Setup User selects learning preferences, skill level, and goals

FR-3 Content Generation Generative AI creates personalized learning modules

AI generates quizzes, notes, and examples

FR-4 LMS Integration Sync personalized modules with LMS (Moodle, Canvas, etc.)

Track user progress automatically via LMS

FR-5 Assessment System provides adaptive quizzes and real-time feedback

FR-6 Progress Analytics Show personalized dashboards with learning metrics

FR-7 Content Update Admin can update AI models and content database

FR-8 Feedback Loop Users can rate content and provide feedback to refine AI

Non-functional Requirements

NFR No. Non-Functional Requirement Description

NFR-1 Usability Simple, intuitive UI for learners and educators

NFR-2 Security Secure user data handling, encryption, and role-based access

NFR-3 Reliability Stable system capable of handling concurrent sessions