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

Date	17 January 2026
Team ID	LTVIP2026TMIDS66228
Project Name	Advancing nutrition science through geminiai
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	Personalized Meal Planning	Generate weekly meal plan using Gemini AI
FR-4	Nutritional Analysis	Provide micronutrient (Vitamins, Minerals) details
FR-5	Virtual Nutrition Coaching	Personalized health recommendations
FR-6	Progress Tracking	Store user history and nutrition reports

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 a simple, intuitive, and user-friendly interface using Streamlit.
NFR-2	Security	User data must be encrypted and securely stored. Authentication must prevent unauthorized access.
NFR-3	Reliability	The system should provide accurate nutritional information and stable AI responses.
NFR-4	Performance	The application should generate meal plans and nutrition insights within a few seconds.
NFR-5	Availability	The web application should be accessible 24/7 with minimal downtime.
NFR-6	Scalability	The system should support increasing numbers of users and handle multiple AI requests efficiently.