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

Date	31 January 2025
Team ID	LTVIP2025TMID49371
Project Name	Comprehensive Analysis & Dietary Strategies
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	Mindful Eating Programs	Conduct workshops and awareness sessions on mindful eating Provide guided stress-reduction tips in-app
FR-2	Nutrition-Tracking Mobile App	Enable users to log meals Track calories and nutrients Generate daily/weekly summaries
FR-3	Healthy Snacks Vending Machines	Machines Allow students to view availability and locations via app Track snack purchases for nutritional info
FR-4	Mess Food Feedback	Provide feedback form for mess food quality
FR-5	Discounted Healthy Food Access	Partner with local vendors to offer discounts
FR-6	Dietitian Collaboration	Schedule appointments or chat with dietitians

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Simple, clean UI with minimal steps for booking and canceling meals; designed for quick access during busy hours
NFR-2	**Security**	Secure login using student credentials; QR codes expire after use; data protected via HTTPS
NFR-3	**Reliability**	System should sync across all hostels and messes with real-time updates and minimal downtime
NFR-4	**Performance**	Meal bookings and QR generation must respond under 1.5 seconds; backend optimized for 2,000+ students

| NFR-5 | **Availability** | System should work across web, Android, and iOS with offline booking fallback in case of network issues |
| NFR-6 | **Scalability** | Capable of expanding to include canteens, events, or external vendors; support analytics modules and AI-based recommendations |