

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

Date	20 June 2025
Team ID	LTVIP2025TMID48179
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
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 College Email ID
		Registration via Student Portal Login
FR-2	User Confirmation	Confirmation via Student Email
		Confirmation using OTP-based verification
FR-3	Dashboard Access and Navigation	User-friendly dashboard interface
		Role-based access (Student, Health Staff, Admin)
FR-4	Data Visualization	Interactive charts on diet intake, deficiencies, comparisons
		Filtering by gender, department, meal type, hostel/day scholar
FR-5	Alerts & Notifications	Trigger alerts for critical trends (e.g., low fruit intake)
		Weekly email summaries / reminders
FR-6	Personalized Insights & Recommendations	Generate customized dietary advice
		Predictive suggestions based on trends (AI/pattern-based)
FR-7	Feedback Collection	Allow users to submit feedback on dashboard usability
		Review feature for health advice usefulness

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple, intuitive UI for students and staff; low learning curve
NFR-2	Security	Secure student data access with authentication and role-based permissions
NFR-3	Reliability	Consistent data availability with real-time updates from trusted sources
NFR-4	Performance	Dashboard loads under 3 seconds, even with large data filters
NFR-5	Availability	99.9% uptime on web and mobile platforms
NFR-6	Scalability	Supports scaling to thousands of student users and real-time data growth