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

Date	31 January 2025
Team ID	LTVIP2025TMID52061
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Exploration & Filtering	- Filter by Gender, Diet Status, Vitamin Intake, Comfort Food Reason
FR-4	Dashboard Interactivity	- View dynamic charts (e.g., Calories vs. Exercise) - Drill-down by GPA or Cuisine - Tooltip insights on hover
FR-5	Scenario-Based Storytelling	Nutrition Alert Triggers - Predictive Insights for Intervention - Persona-based narrative views
FR-6	User Feedback & Export Options	Download PDF or Image of Dashboard - Submit feedback form or survey

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The dashboard should have an intuitive and clean user interface, ensuring ease of navigation and interaction for both students and administrators.
NFR-2	**Security**	User data must be protected through access control and secure storage practices, especially if personal health metrics are included.
NFR-3	**Reliability**	The solution should consistently deliver accurate and updated insights without crashes or data discrepancies.
NFR-4	**Performance**	Dashboards should load within 2–3 seconds with minimal latency, even when filters and multiple visualizations are applied.
NFR-5	**Availability**	The dashboard should be accessible 24/7 via campus network or public link with minimal downtime.
NFR-6	**Scalability**	The system should support growing datasets and user expansion (e.g., across departments or universities) without performance degradation.