

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

Date	28 June 2025
Team ID	LTVIP2025TMID47715
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau
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	Data Import and Preparation	Load student dietary data and meal logs into Tableau. Clean and organize for analysis. Combine survey, meal, and nutrition data.
FR-2	Dashboards and Visualizations	Create charts for food types, calorie intake, and nutrition levels. Enable filters by meal type, diet goal, time, or student group.
FR-3	KPI Summary Cards	Show key insights like average calorie intake, most consumed food items, water intake, etc.
FR-4	Storyboarding	Build a visual story showing how student diet affects energy, focus, and health. Present insights in a logical, easy-to-follow flow.
FR-5	User Interaction	Enable filters for diet plans, time periods, and nutritional categories. Use tooltips to show more info like benefits or food group.
FR-6	Publishing and Access	Publish the Tableau dashboard to Tableau Public. Generate public link for access via student portal or website.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Dashboard must be simple and clear for students and non-technical users.
NFR-2	Security	No personal health data is shown; only general or anonymized data is used.
NFR-3	Reliability	Dashboard must load and function properly without data errors or lag.
NFR-4	Performance	Should load within 5 seconds for average data sets.
NFR-5	Availability	Dashboard should be accessible 24/7 via Tableau Public.
NFR-6	Scalability	System should support more student data over time without redesign.

