

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

Date	26 June 2025
Team ID	LTVIP2025TMID48343
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	Data Collection	Collect food consumption data from students via online surveys or forms
FR-2	Data Integration	Import data into Tableau from Excel, Google Sheets, or SQL databases
FR-3	Data Visualization	Create charts and dashboards (e.g., calorie intake trends, food type frequency)
FR-4	Nutritional Analysis	Analyze data to assess nutrient balance, deficiencies, and dietary patterns
FR-5	Personalized Dietary Suggestions	Provide food recommendations based on user input or analysis output
FR-6	Filtering and Interactivity	Allow users to filter results by age, gender, meal type, or location
FR-7	Report Generation	Generate downloadable PDF/Excel reports on individual and group food habits

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Dashboards should be user-friendly and easy to navigate for non-technical users
NFR-2	Security	SecurityEnsure data privacy for individual food records and personal
NFR-3	Reliability	System should consistently produce accurate analysis and insights
NFR-4	Performance	Dashboards should load within 3 seconds even with large datasets
NFR-5	Availability	System should be accessible 24/7 during the research period
NFR-6	Scalability	Should support increasing users/data volume as more colleges join the study