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

Date	14 June 2025
Team ID	LTVIP2025TMID47655
Project Name	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 Upload	Upload college food choices dataset (.csv)
FR-2	Data Preparation	Preprocess and clean food choice data in Tableau (convert types, rename fields, create calculated fields)
FR-3	Dashboard Development	Create visuals: bar charts, pie charts, heatmaps, line charts, tree maps
FR-4	Dashboard Interaction	Add filters for: Age Group, Gender, Meal Preference, Eating Out Frequency
FR-5	Data Exploration	Allow users to drill down using filters like BMI, Health Awareness, Time of Day, and Budget
FR-6	Insight Delivery	Generate insights such as dietary risk zones, student meal trends, and healthy/unhealthy preference patterns
FR-7	Export Functionality	Allow dashboard export to PDF or image format for reports or consultations
FR-8	Storyboarding	Build a story in Tableau to present key dietary findings step-by-step

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Dashboard should be intuitive and easily navigable for students, nutritionists, and non-technical stakeholders
NFR-2	Security	Dataset and Tableau workbooks should be securely stored and shared with appropriate permissions
NFR-3	Reliability	Dashboard should yield consistent insights across all demographic and diet-based filters
NFR-4	Performance	Dashboard visualizations should load within 5 seconds of applying any filter
NFR-5	Availability	Dashboards should be available online or exportable in formats like PDF/Image for academic/health distribution
NFR-6	Scalability	The system should support more data over time (e.g., additional surveys, semesters, or student populations)