

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

Date	26 may 2025
Team ID	LTVIP2025TMID48547
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	<b>Usability</b>	Dashboards should be user-friendly and easy to navigate for non-technical users
NFR-2	<b>Security</b>	SecurityEnsure data privacy for individual food records and personal
NFR-3	<b>Reliability</b>	System should consistently produce accurate analysis and insights
NFR-4	<b>Performance</b>	Dashboards should load within 3 seconds even with large datasets
NFR-5	<b>Availability</b>	System should be accessible 24/7 during the research period
NFR-6	<b>Scalability</b>	Should support increasing users/data volume as more colleges join the study