

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	14 june 2025
Team ID	LTVIP2025TMID47655
Project Name	A College Food Choices Case Study
Maximum Marks	4 Marks

#### Data Flow Diagrams:

[Raw CSV Dataset: College\_Food\_Choices.csv]



[Data Preprocessing in Tableau]

→ Convert types (e.g., age to numeric)

→ Rename headers (e.g., "Q1" → "Eating Out Frequency")

→ Create calculated fields (e.g., BMI, Daily Calories)



[In-Memory Tableau Storage]



[Visualization Layer (Tableau Sheets)]

→ Bar Chart, Pie Chart, Heatmap, Stacked Bar, Line Graph, Tree Map, etc.



[Dashboard View + Filters]

→ Age Group

→ Gender

→ Meal Preference

→ Health Consciousness

→ Frequency of Eating Out

[Stakeholders: Dietitians, Campus Nutrition Planners, Health Researchers, Students]

## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Health Analyst	Analyze Eating Habits by Demographics	USN-1	As a health analyst, I want to view eating patterns across age and gender so that I can identify high-risk groups	I can filter data by age and gender to view food consumption trends	High	Sprint-1
Nutrition Planner	Evaluate Dietary Balance	USN-2	As a planner, I want to analyze if students meet dietary guidelines based on their food choices	I can see charts showing food category frequency and caloric breakdown	High	Sprint-1
College Admin	Correlate Eating Habits with Health Conditions	USN-3	As an administrator, I want to study how poor diet correlates with reported health issues	I can view cross-tab reports comparing food types with health survey results	Medium	Sprint-2
Researcher	Compare Preferences (Vegetarian vs Non-vegetarian)	USN-4	As a researcher, I want to compare food choices between vegetarians and non-vegetarians	I can view segmented visualizations by meal preference	Medium	Sprint-2
Dietitian	Filter Dashboard for Personalized Advice	USN-5	As a dietitian, I want to filter student data to create custom diet plans	I can apply filters like calories, meals/day, and frequency of snacks	High	Sprint-1
Student	Export Dietary Summary	USN-6	As a student, I want to export my personalized dietary summary for consultation	I can export visuals as image or PDF from dashboard	Low	Sprint-3