Requirements Analysis

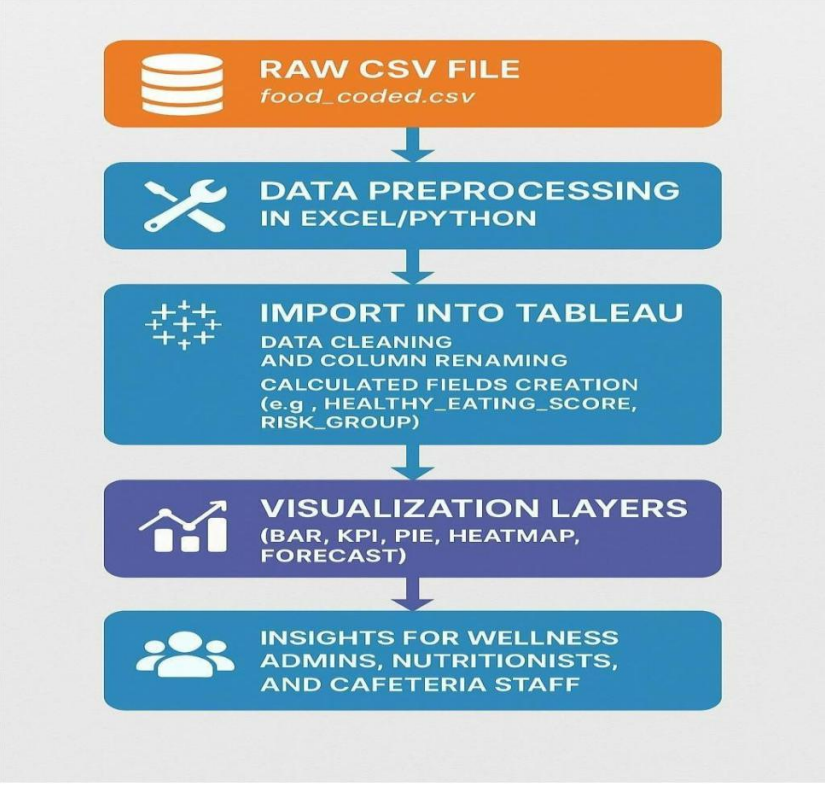
Data Flow & User Stories Report

Date	16 June 2025
Team ID	LTVIP2025TMID49741
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
Maximum Marks	4 Marks

Data Sources

Raw CSV File: food_coded.csv – includes student responses on dietary patterns, vitamin intake, exercise habits, and self-health perception.

Manual Inputs (optional): Real-time health reports, cafeteria item intake logs, student self-surveys.



Key Modules in Tableau

- **Intake Monitoring Dashboard**

1. Fruit/Veggie trends
2. Alerts for low intake

- **Deficiency Analysis Dashboard**

1. Snack levels
2. Vitamin usage visualizations

- **Risk-Based Prediction Dashboard**

1. Risk segmentation (High, Moderate, Low)
2. Personalized plan suggestions

USER STORIES

Persona: University Wellness Administrator

- **As a** health administrator,
  I want to monitor student fruit and vegetable intake in real time,
  So that I can take immediate action if consumption drops.
- **As a** nutritionist,
  I want to detect high snack calorie consumers who don't take vitamins,
  So that I can design targeted health awareness campaigns.
- **As a** program coordinator,
  I want a dashboard that shows risk segmentation based on diet and exercise,
  So that I can recommend customized health plans.
- **As a** cafeteria manager,
  I want to know which nutrients are lacking in student diets,
  So that I can adjust menus accordingly.
- **As a** data analyst,
  I want to visualize calorie trends across semesters,
  So that we can compare student well-being longitudinally.