Project Design Phase-I
Solution Architecture

Date	15 February 2026
Team ID	LTVIP2026TMIDS52086
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture for this project is the strategic process of translating dietary health challenges into a data-driven visual system. Its goals are to:

Solve Business Problems: Utilize Tableau's visualization engine to find the best way to represent complex nutritional data for student health.

Stakeholder Communication: Describe the structure of the data pipeline and the behavior of the interactive dashboard to university administrators and students.

Define Requirements: Identify the specific features needed, such as Waterfall and Funnel charts, to meet dietary analysis requirements.

Deliver Specifications: Provide the technical framework for data cleaning and dashboard management to ensure the solution is delivered accurately.

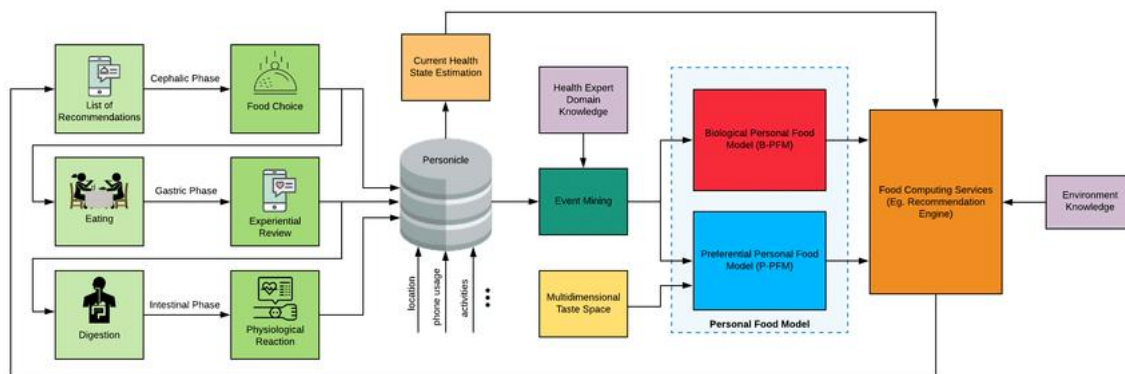## Example - Solution Architecture Diagram:

Figure 1: Architecture and data flow of the dietary food case study

Reference: https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/