Project Design Phase
Solution Architecture

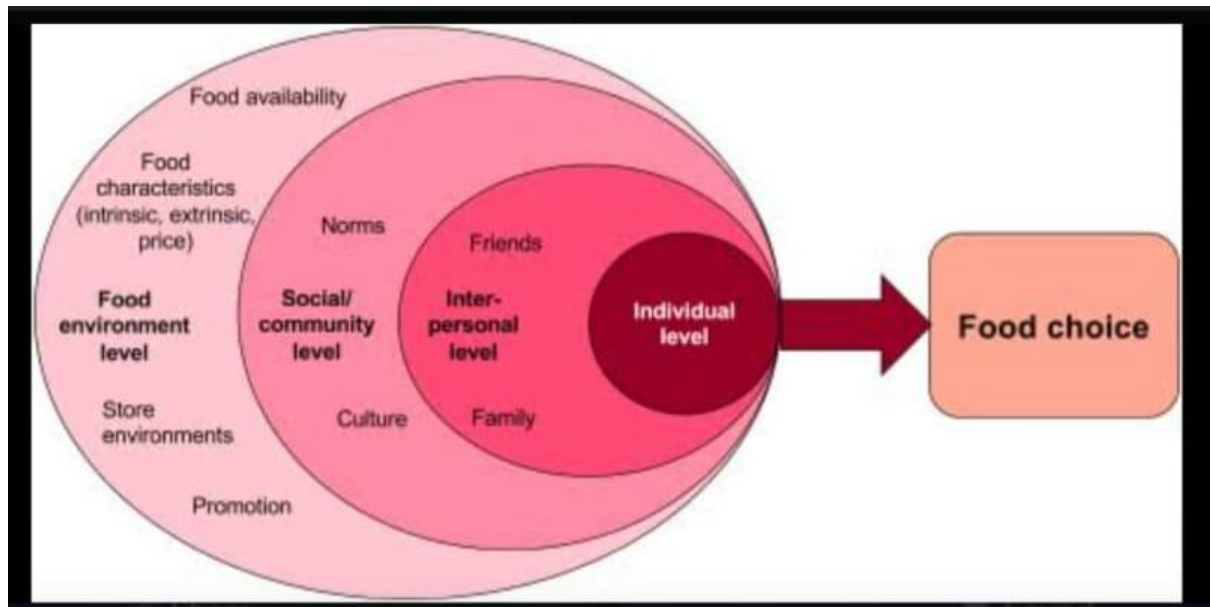| Date	24 june 2025
Team ID	LTVIP2025TMID51515
Project Name	Comprehensive analysis and dietary strategies with tableau:A college food choices case study
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.

- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.

- Define features, development phases, and solution requirements.

- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture

Architecture layer	Components
Data sources	Cafeteria POS,nutrition DBs,surveys
Data ingestion	ETL tools,cloud data lake
Data processing	Spark,SQL DW,ML Models
Visualization	Tableau
Access layer	API gatrway
End users	Admins,students,nutritionists

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