

## Comprehensive Analysis and Dietary strategies with tableau: A College Food Choices Case Study

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MAXIMUM MARKS	4 MARKS

### 4.3 - Solution Architecture

Solution Architecture explains the structured framework used to implement the proposed dietary improvement solution for college students.

- **Data Collection Layer:** Collects data from student surveys, food preference forms, and canteen sales records.
- **Data Processing Layer:** Cleans, organizes, and categorizes data to ensure accuracy.
- **Analysis & Visualization Layer:** Uses Tableau dashboards to analyze eating patterns, spending habits, and nutritional gaps.
- **Recommendation Layer:** Provides affordable healthy meal options, weekly diet plans, and personalized suggestions.

Thus, the solution architecture ensures a systematic, data-driven approach that connects data collection, analysis, and actionable recommendations.

