

**Project Design Phase**  
**Problem – Solution Fit Template**

Date	28 June 2025
Team ID	LTVIP2025TMID59682
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
Maximum Marks	2 Marks

**Problem - Solution Fit**

S. No	Problem Statement	Description
1	Lack of Data-Driven Insights into Student Dietary Patterns	- College dining services operate without comprehensive understanding of student food preferences - Limited visibility into factors like GPA, lifestyle, and demographics - Absence of evidence-based nutritional strategies
2	Rising Health Concerns Among College Students	- Increasing rates of poor dietary habits leading to health issues - Limited understanding of comfort food consumption patterns and triggers - Insufficient data to support targeted wellness programs
3	Inefficient Resource Allocation in Campus Dining	- Menu planning based on assumptions - Suboptimal food procurement and waste management - Limited personalization of dining experiences

**SOLUTION DESIGN**

**Core Solution:**

**Comprehensive Data Analytics Platform** that transforms raw student food choice data into actionable insights through interactive Tableau dashboards and evidence-based recommendations.

S. No	Component	Features / Description
1	Data-Driven Insights Dashboard	- Interactive visualizations of student dietary patterns - Correlation analysis between GPA and food choices - Demographic-based food preference analysis - Comfort food consumption pattern identification
2	Predictive Analytics Engine	- ML models to predict dietary preferences - Risk assessment for poor nutrition - Analysis of seasonal and academic calendar impacts
3	Strategic Recommendation System	- Evidence-based dietary strategies for student segments - Menu optimization - Targeted interventions for at-risk students

S. No	Component	Features / Description
4	Performance Monitoring Tools	- Real-time tracking of dietary program impact - Integration of student satisfaction metrics - Correlation with health outcomes

## RISK MITIGATION

### Potential Challenges & Solutions:

Risk	Mitigation Strategy
Data privacy concerns	Implement robust anonymization and consent protocols
Low adoption rates	Comprehensive training and change management
Technical complexity	Phased implementation with continuous support
Budget constraints	ROI demonstration through pilot programs

### References:

1. <https://www.ideahackers.network/problem-solution-fit-canvas/>
2. <https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe>