Project Design Phase
Proposed Solution Template

Date	29 MAY 2025
Team ID	LTVIP2025TMID48176
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Lack of real-time, comprehensive insights into college students' dietary habits, nutritional gaps, and related health impacts hampers timely interventions, personalized nutritional guidance, and data-driven decision-making by students and university stakeholders.
2.	Idea / Solution description	Build a Tableau-powered analytics platform that integrates cafeteria purchase data, self-reported diets, exercise logs, and health perception surveys. The system delivers interactive dashboards for real-time monitoring, predictive alerts on nutritional deficiencies, and personalized nutrition plans for students.
3.	Novelty / Uniqueness	Combines multiple data sources (purchases, surveys, wearables) into a unified visualization layer; leverages predictive analytics for proactive interventions; and provides role-based views for students, health administrators, and cafeteria managers—all within an intuitive Tableau environment.
4.	Social Impact / Customer Satisfaction	Promotes healthier lifestyles, reduces risk of diet-related illnesses, and boosts academic performance. Increases student engagement through personalized feedback while enabling administrators to deploy evidence-based health programs—resulting in higher overall satisfaction and well-being.
5.	Business Model (Revenue Model)	Subscription-based SaaS for universities (tiered by student population); implementation and customization fees; optional analytics consulting services; and anonymized, aggregated insights licensable to nutrition researchers.
6.	Scalability of the Solution	Cloud-hosted architecture allows easy onboarding of additional campuses; modular data connectors support new data sources (e.g., fitness trackers, meal delivery apps);

		scalable Tableau Server/Cloud deployment ensures performance as user base grows.