Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	PNT2025TMID02999
Project Name	Global Malnutrition Trends: A Power BI Analysis (1983-2019)
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Malnutrition remains a persistent global challenge affecting millions of people, especially children. Tracking malnutrition trends over time and across regions is crucial to understanding where interventions are most needed. The lack of centralized, visualized data limits effective policy-making and resource allocation.
2.	Idea / Solution description	The proposed solution is a Power BI dashboard that analyses global malnutrition trends from 1983 to 2019 using historical data. The dashboard will provide interactive visualizations, allowing users to explore malnutrition rates by region, age group, economic status, and policy impact. This will help policymakers, NGOs, and researchers make data-driven decisions to reduce malnutrition globally.
3.	Novelty / Uniqueness	The solution is unique as it combines geospatial mapping, time-series analysis, economic correlations, and predictive modelling within a single Power BI dashboard. By using AI/ML integration, it can forecast future malnutrition trends, allowing policymakers to proactively implement solutions. Additionally, it offers a comparative analysis of government policies' effectiveness, providing actionable insights.
4.	Social Impact / Customer Satisfaction	The solution aims to support global health organizations, policymakers, and non-profits in combating malnutrition. By providing clear visual insights, it helps in: • Identifying high-risk regions. • Understanding the impact of economic and policy changes. • Promoting effective resource distribution.

		• This will ultimately contribute to reducing malnutrition rates globally, improving quality of life, and ensuring better policy decisions.
5.	Business Model (Revenue Model)	The project can generate revenue through: • Subscription-based model for global health organizations to access advanced predictive analytics. • Collaborations with government bodies for customized malnutrition reports. • Data licensing model for research institutes and universities. • Offering consulting services for policy planning and intervention strategies.
6.	Scalability of the Solution	The solution is highly scalable and can be: • Expanded to include new datasets (e.g., food supply chain, climate change impact). • Integrated with real-time data sources for up-to-date analysis. • Extended to other health-related challenges like child mortality, maternal health, and poverty analysis. • Scaled globally, benefiting multiple countries, government organizations, and non-profits in decision-making processes.