Project Design Phase
Problem – Solution Fit Template

Date	24 March 2025
Team ID	PNT2025TMID06810
Project Name	Global Malnutrition Trends: A Power BI Analysis (1983-2019)
Maximum Marks	2 Marks

Problem – Solution Fit Template:

1. Problem Statement

Malnutrition remains a critical global challenge, affecting millions, especially in developing countries.

Despite various initiatives, real-time tracking and historical trend analysis of malnutrition data are often inadequate.

Policymakers, researchers, and organizations lack an intuitive and data-driven approach to monitor and combat malnutrition effectively.

2. Customer Pain Points

Lack of comprehensive, visual insights into long-term malnutrition trends.

Difficulty in identifying correlations between economic, social, and health indicators affecting malnutrition.

Policymakers and NGOs struggle to make data-backed decisions due to fragmented and unstructured data sources.

3. Proposed Solution

A Power BI-based analytical dashboard that visualizes malnutrition trends (1983-2019) using historical datasets.

Key features:

Interactive maps and trend charts to identify regional disparities.

Time-series analysis to understand progress and setbacks.

Correlation analysis with economic and health indicators.

Enables better decision-making by providing a data-driven narrative of global malnutrition patterns.

4. Value Proposition

Data-Driven Insights: Transforms complex datasets into actionable visualizations.

User-Friendly Interface: Interactive dashboards for policymakers, researchers, and organizations.

Predictive Capabilities: Helps forecast future malnutrition risks using historical trends.

Impact Assessment: Measures the effectiveness of past interventions and policies.

5. Validation & Evidence

Historical datasets from WHO, UNICEF, World Bank, and FAO are analyzed to ensure accuracy.

Initial Power BI prototypes have demonstrated clear patterns and correlations in malnutrition trends.

Feedback from experts and policymakers supports the need for a visual analytics tool for decisionmaking.

6. Next Steps

Refinement: Enhance data integration and visual storytelling elements.

Stakeholder Collaboration: Work with health organizations and policymakers for feedback.

Predictive Analysis: Incorporate machine learning models to forecast future malnutrition trends.

Scalability: Expand the tool to cover additional health indicators and real-time data updates.

Template: