Project Initialization and Planning Phase

Date	20 June 2025
Team ID	
Project Title	Global Malnutrition Trends: A Power BI Analysis (1983-2019)
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview	
Objective	To analyze global malnutrition trends from 1983 to 2019 among children under five years of age using Power BI, and to generate actionable insights for policy-making and resource allocation based on economic and geographic classifications of countries.
Scope	The project covers malnutrition indicators such as severe wasting, wasting, stunting, underweight, and overweight across countries globally. Countries are classified by income levels (low, lower-middle, upper-middle, and high income) and special categories including Least Developed Countries (LDC), Low Income Food Deficient (LIFD), Land Locked Developing Countries (LLDC), and Small Island Developing States (SIDS), using data from UNICEF, WHO, and the World Bank.
Problem Statement	
Description	Malnutrition among children under five remains a persistent global issue, especially in lower-income countries. The project addresses the need to uncover trends and patterns in malnutrition data and examine how it correlates with country classifications to aid strategic interventions.
Impact	By identifying the most affected regions and understanding correlations between economic status and malnutrition, the project will help organizations and governments make informed decisions to reduce child malnutrition and improve health outcomes.

Proposed Solution	
Approach	The project uses Power BI to process and visualize the dataset. Tasks include: ● Data collection and import ● Cleaning and transforming data Creating visualizations such as stacked bar charts, ribbon charts, and line charts ● Analyzing trends by income classification and region ● Interpreting visual insights for policy recommendations
Key Features	● Analysis of underweight, overweight, and stunting trends by income and geography ● Visual comparisons using charts like ribbons and bar graphs ● Identification of high-risk countries ● Data-driven insights to support targeted policy-making

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU specifications, minimum requirements for Power BI	Quad-core CPU, 2.0 GHz or faster
Memory	RAM specifications	8 GB
Storage	Disk space for data, reports, and backups	512 GB SSD
Software		
Frameworks	BI and data analytics tools	Power BI Desktop
Libraries	Power BI visuals and extensions	Power Query
Development Environment	BI development tools	Power BI Desktop
Data		

Data	Source, size, format	Kaggle dataset: country-wise-average.csv - 14KB malnutrition-estimates.csv - 289KB Format: CSV