Project Initialization and Planning Phase

Date	25 JUNE 2025
Team ID	xxxxxx
Project Title	GLOBAL MALNUTRITION TREND: 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 malnutrition trends among children under five from 1983 to 2019.
Scope	• The analysis covers the **years 1983 to 2019**. • **Children under five years of age** are the target population. • The project focuses exclusively on these **five conditions**: Severe wasting, Wasting, Stunting, Underweight, Overweight.
Problem Statement	
Description	Malnutrition in children under five is still a serious issue in many parts of the world, especially in countries with lower income levels. Even with years of global effort, problems like stunting, wasting, underweight, and even childhood overweight continue to affect millions of children. One of the biggest challenges is understanding how these issues have changed over time and how they relate to a country's economic status or development stage. Without clear insights, it's hard for governments and organizations to know where to focus their efforts. This project uses data from 1983 to 2019 and Power BI to explore global malnutrition trends and help identify which countries and regions need the most urgent attention—so that actions taken to fight child malnutrition can be smarter and more effective.

Impact	This project helps bridge the gap between **raw data and real-world action**. It ensures that efforts to reduce child malnutrition are guided by evidence, leading to **healthier children**, **stronger communities**, and progress toward **global development goals.** By the insights gained by this analysis, stake holders such as International organizations, NGO workers and government can clearly understand the **trends over time** and can take certain actions and **adjust strategies accordingly.**
Proposed Solution	
Approach	To analyze global malnutrition trends, we'll start by collecting data from Kaggle, focusing on children under five between 1983 and 2019. In Power BI, we'll clean the data by fixing missing values, organizing country names, and sorting it by year and malnutrition type. Using Power BI tools, we'll create visual charts—like line graphs to show trends over time and bar charts to compare countries. We'll also use interactive filters so users can explore the data by region or malnutrition type. Finally, we'll study the visuals to find patterns and key insights that show which countries or regions need the most help, and then summarize those findings in a clear, visual report.
Key Features	Unlike many studies that focus only on one region or one type of malnutrition, this solution compares multiple form like stunting, wasting, underweight, and overweight, across different countries grouped by income levels and special classifications such as LDCs, LLDCs, and SIDS. By using Power BI, we not only visualize the data with interactive and easy-to-understand charts, but also allow users to explore patterns for themselves through filters and slicers. This combination of depth, detail, and interactivity gives decision-makers powerful insights that are both broad and focused helping them target the right areas for action more effectively than static reports or spreadsheets.

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	Intel Core i5(i5-10400), Nvidia GeForce GTX 1650.
Memory	RAM specifications	8 GB

Storage	Disk space for data, models, and logs	5 GB SSD
Software		
Development Environment	IDE, version control	Power BI Desktop
Data		
Data	Source, size, format	Kaggle dataset, 303kb ,csv files