Project Initialization and Planning Phase

Date	15 December 2025
Team ID	xxxxxx
Project Title	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
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 food production trends from 1961 to 2023 using Power BI and identify long-term patterns, regional variations, and insights to support data-driven decision-making.
Scope	The project covers historical global food production data across countries and commodities from 1961 to 2023, including data preprocessing, visualization, dashboard creation, and insight generation using Power BI.
Problem Statement	
Description	Understanding long-term global food production trends is challenging due to large, complex historical datasets that lack clear visualization and comparative analysis.
Impact	The project helps policymakers, researchers, and analysts gain clear insights into global food production trends, supporting better planning, sustainability analysis, and informed decision-making.
Proposed Solution	
Approach	The approach involves data collection, preprocessing, exploratory analysis, visualization, and dashboard development using Power BI to extract meaningful insights from historical food production data.
Key Features	Interactive Power BI dashboards • Year-wise and region-wise trend analysis

	• Commodity-wise comparisons • Filter and slicer-based exploration • Clear insight summaries

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU	Laptop/Desktop with Intel i5 / Ryzen 5 or higher
Memory	RAM specifications	Minimum 8 GB
Storage	Disk space for data, Power BI files, Reports and documentation	256 GB SSD or Higher
Software		
Frameworks	Visualization and analytics framework	Power BI and Microsoft Excel
Libraries	Visualization and analytical functions	Built in power BI visuals and DAX functions
Development Environment	Tools and operating environment	Power BI Desktop and windows OS
Data		
Data	Source, size and format	Global food production dataset csv/excel from kaggle