2. Project Initialization and Planning Phase

Date	02 Oct 2025
Team ID	xxxxxx
Project Name	Analysis and Visualization of Global Food Production Data (1961–2023)
Maximum Marks	3 Marks

2.1 Define Problem Statement:

Food security and agricultural sustainability are among the most pressing global challenges. Governments, policymakers, and agribusinesses require accurate, long-term insights into food production trends to plan resources, manage supply chains, and ensure balanced growth.

However, the data on global food production (1961–2023) is vast, fragmented, and difficult to analyze in raw form. Stakeholders struggle to identify production patterns, regional contributions, and the comparative importance of crops and fruits without proper analytical tools. This lack of consolidated visualization makes strategic decision-making slow and uncertain.

Therefore, there is a need for a comprehensive data analysis solution that leverages tools like Power BI to:

- Consolidate multi-decade production data.
- Provide interactive dashboards for exploring key crops (wheat, rice, maize, tea, coffee) and fruits (apples, bananas, grapes, oranges, avocados).
- Enable clear insights for agricultural planning, investment, and policy formulation.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	**I am** a policymaker in the agriculture sector.	**I'm trying to** analyze long-term global food production trends to ensure food security.	**But** the data is scattered across decades, regions	**Because** there is no consolidated, interactive visualization	**Which makes me feel** uncertain and slow in making strategic decisions.

			, and multiple crops.	available.	
PS-2	**I am** a business strategist in the agri-food industry.	**I'm trying to** identify which crops and fruits dominate global production.	**But** the raw datasets are too large and complex to interpret quickly.	**Because** they span over 60 years and involve many commodities.	**Which makes me feel** frustrated and unable to make timely business insights.