Date	5 March 2025
Team ID	PNT2025TMID01422
Project Name	Global Food Production and Trend Analysis
Maximum Marks	4

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Collection C Cleaning	Gather historical food production data (1961-2023)
		Remove inconsistencies C missing values
		Standardize units C formats for analysis
FR-2	Data Processing C Transformation	Aggregate production data by region and crop type
		Calculate yearly growth trends C anomalies
		Prepare dataset for visualization in Power BI
FR-3	Power BI Report Creation	Design interactive dashboards for food production trends
		Create visualizations for staple crops (rice, wheat, maize)
		Develop regional comparison charts for fruit production
FR-4	Insights C Decision Support	Identify key trends in food security C production growth
		Provide data-driven recommendations for stakeholders
		Enable export of reports for business C policy use

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The Power BI dashboard should have an intuitive and user-friendly interface for analysts, policymakers, and business users.
NFR-2	**Security**	Access control mechanisms should ensure only authorized users can view or modify the dataset and reports.
NFR-3	**Reliability**	The system should ensure consistent and accurate data visualization, with automated alerts for missing or inconsistent data.
NFR-4	**Performance**	Power BI reports should load within 5 seconds for optimal user experience, even when handling large datasets.
NFR-5	**Availability**	The Power BI reports should be accessible 24/7 with minimal downtime, ensuring continuous data availability.
NFR-6	**Scalability**	The solution should handle growing data volumes and support future integration with additional data sources.