

## Initial Project Planning Template

Date	29 September 2025
Team ID	SWUID20250181744
Project Name	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	4 Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
	Data Collection	USN-1	As a data engineer, I want to collect global food production data (1961–2023) from FAO and other verified sources so that the dataset is complete and reliable.	3	High	Data Engineer, Analyst	15-Sep-2025	18-Sep-2025
		USN-2	As a data analyst, I want to extract and import the dataset into Power BI for initial validation and structure review.	2	High	Data Engineer	15-Sep-2025	18-Sep-2025
	Data Cleaning & Transformation	USN-3	As a data analyst, I want to clean and standardize commodity, country, and region names to ensure consistency.	3	High	Analyst	19-Sep-2025	22-Sep-2025
		USN-4	As a data analyst, I want to convert all production units into tonnes and handle missing or incorrect values.	2	Medium	Analyst	19-Sep-2025	22-Sep-2025

	USN-5	As a data modeler, I want to design a star schema (fact + dimension tables) to optimize Power BI performance.	3	High	BI Developer	19-Sep-2025	22-Sep-2025
Visualization Development	USN-6	As a BI developer, I want to create trend visuals for wheat, rice, maize, tea, and coffee production across years.	4	High	BI Developer, Analyst	23-Sep-2025	26-Sep-2025
	USN-7	As a designer, I want to design fruit visuals comparing grapes, apples, bananas, and oranges by region.	3	Medium	Designer, BI Developer	23-Sep-2025	26-Sep-2025
Interactive Dashboard	USN-8	As a BI developer, I want to integrate all visuals into an interactive Power BI dashboard for easier navigation.	4	High	BI Developer	27-Sep-2025	30-Sep-2025
	USN-9	As a designer, I want to add slicers, filters, and buttons for dynamic exploration and user control.	3	High	Designer, BI Developer	27-Sep-2025	30-Sep-2025
Documentation & Reporting	USN-10	As a documentation specialist, I want to prepare a detailed report explaining methodology, insights, and results.	2	Medium	Document Specialist	01-Oct-2025	04-Oct-2025
	USN-11	As a project lead, I want to record a demo video demonstrating dashboard functionality.	2	High	Project Lead, Analyst	01-Oct-2025	04-Oct-2025
Optimization & Validation	USN-12	As a QA engineer, I want to test performance, data accuracy, and response time of the dashboard.	3	High	QA Engineer	05-Oct-2025	10-Oct-2025
	USN-13	As a project lead, I want to review, finalize, and deploy the Power BI dashboard for client presentation.	2	High	Project Lead	05-Oct-2025	10-Oct-2025