

Project Design Phase-II

Data Flow Diagram & User Stories

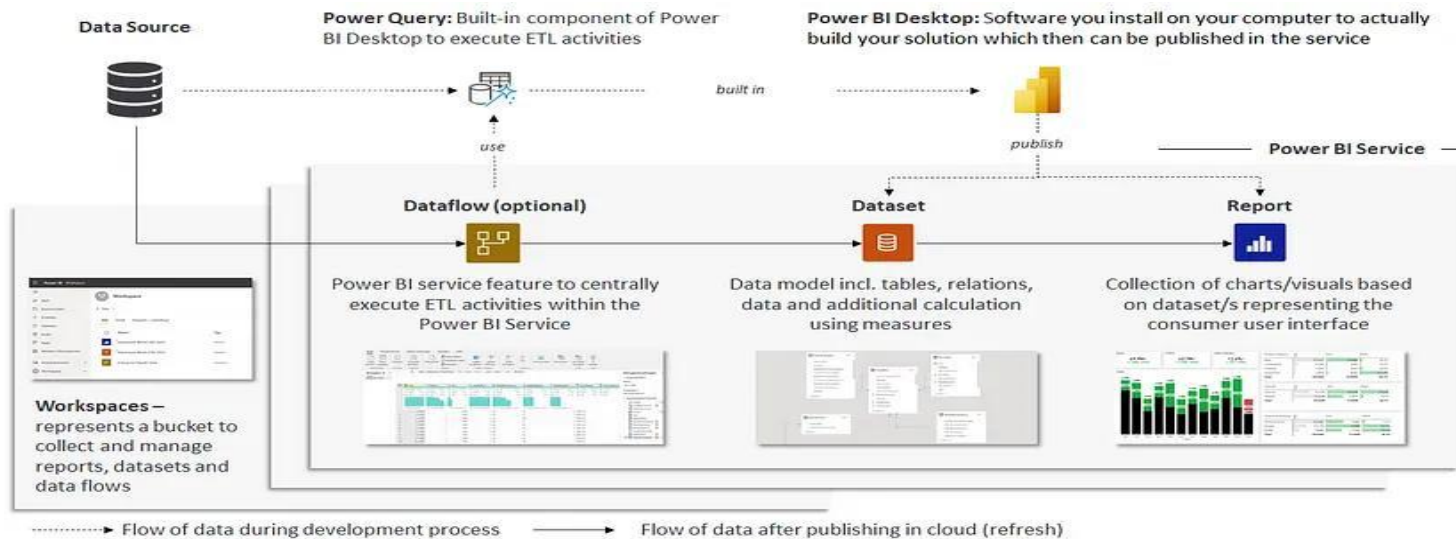
Date	25 March 2025
Team ID	PNT2025TMID06994
Project Name	Global Food Production Trends and Analysis (1961-2023) Using Power BI
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

A Data Flow Diagram (DFD) will be used to represent the flow of data in the system. The DFD will illustrate:

- **Inputs:** Food production data, environmental conditions, economic factors, and government policies.
- **Processing:** Data cleaning, feature engineering, and model training.
- **Outputs:** Production trends, predictive insights, and recommendations for optimization.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement	User Story Number	Acceptance criteria	Priority	Release
Data Analyst	Analyse global food consumption trends over time	USN-1	Data should include per capita consumption of key food groups	High	Sprint-1
Data Engineer	Collect and preprocess food production and trade data	USN-2	Data should be cleaned, normalized, and structured for analysis	High	Sprint-1
BI Developer	Develop interactive dashboards for food trends visualization	USN-3	Dashboards should show trends by region, food type, and time period.	High	Sprint-2
Policy Maker	Assess the impact of food trends on nutrition and health	USN-4	Reports should highlight dietary shifts and health correlations	High	Sprint-1

User Type	Functional Requirement	User Story Number	Acceptance criteria	Priority	Release
Farmer	Access insights on crop demand and price trends	USN-5	Reports should provide forecast data on crop prices and demand	High	Sprint-1
Admin	Manage data access, permissions, and updates	USN-6	Admin should have control over user access, data refresh, and security	Medium	Sprint-2