

Project Design Phase-II

Data Flow Diagram & User Stories

Date	12 March 2025
Team ID	PNT2025TMID02642
Project Name	Power BI Inflation Analysis Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

Data Flow Diagrams:

Data Flow Diagram (DFD) for the **Power BI Inflation Analysis** involves representing the high-level processes involved in analyzing inflation through a Power BI dashboard.

Example: [\(Simplified\)](#)

Flow

1. External Data Sources → Data Collection (Power BI Connector/Manual)
2. Data Warehouse → Power Query (Transformation and Cleaning) → Transformed Data
3. Transformed Data → Data Modeling & Aggregation → Aggregated Data
4. Aggregated Data → Power BI Visualizations → Interactive Reports/Dashboard
5. Users (Decision Makers/Analysts) interact with Dashboard → Insights → Decisions
6. Automated Data Refreshes → Updated Insights.

DFD Level 0(Industry Level)



User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Economist/ Analyst	Data Import & Integration	USN-1	As a user, I can upload inflation data from various sources (IMF, World Bank, local governments) into Power BI.	I can successfully import inflation data and see it reflected in Power BI	High	Sprint-1
Economist/ Analyst	Data Visualization	USN-2	As a user, I can visualize inflation trends over the past decades using interactive charts and graphs	I can view inflation rate trends in line charts, bar graphs, and heat maps	High	Sprint-1
Business Executive	Comparative Analysis	USN-3	As a user, I can compare inflation trends across multiple countries or regions to understand economic differences.	I can filter and compare inflation data for different regions side by side	High	Sprint-2
Policy Maker	Forecasting & Predictive Analysis	USN-4	As a user, I can see inflation rate forecasts based on historical data and predictive modeling.	I can view future inflation projections using machine learning models in Power BI.	High	Sprint-2
General Public	Dashboard Access	USN-5	As a user, I can access an interactive Power BI dashboard with key inflation metrics	I can navigate the dashboard and explore inflation data without technical knowledge.	Medium	Sprint-1
Data Scientist	Data Cleaning & Transformation	USN-6	As a user, I can clean and transform inflation data to ensure accuracy and consistency.	I can apply transformations like missing value handling and currency adjustments.	High	Sprint-1
Economist	Inflation Drivers Analysis	USN-7	As a user, I can analyze key factors influencing inflation (e.g., oil prices, wages, interest rates).	I can see correlations and insights on inflation drivers	High	Sprint-3