Project Design Phase-II
Data Flow Diagram & User Stories

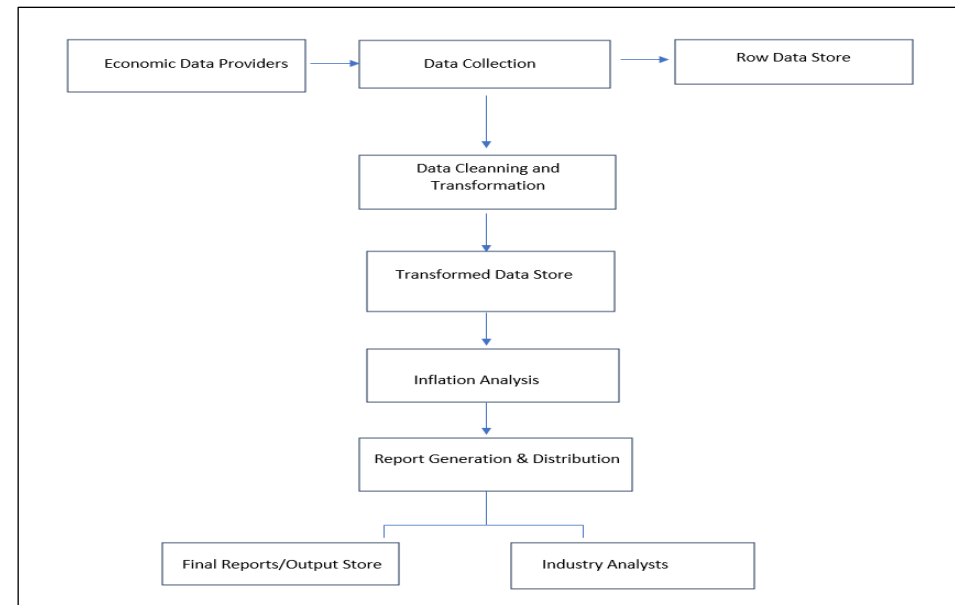| Date	12 March 2025
Team ID	PNT2025TMID02665
Project Name	Power BI Inflation Analysis Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

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