

Project Design Phase-II Data Flow Diagram & User Stories

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| Date | 12 March 2025 |
| Team ID | PNT2025TMID02582 |
| Project Name | Power BI Inflation Analysis Journeying Through Global Economic Terrain |
| Maximum Marks | 4 Marks |

Data Flow Diagrams:

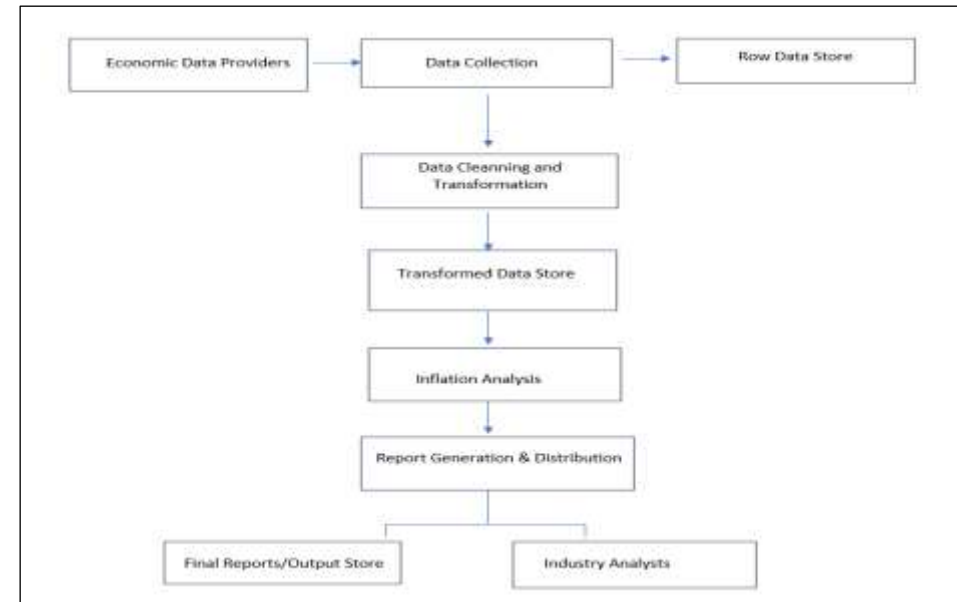
Data Flow Diagram (DFD) for the **Power BI Inflation Analysis** involves representing the high-level processes involved in analyzing inflation through a Power BI dashboard.

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 |