Project Design Phase
Solution Architecture

Date	04 March 2025
Team ID	PNT2025TMID04732
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

Solution Architecture:

Architecture Overview:

The **Power BI Inflation Analysis** solution is designed to analyse global economic trends by integrating data from trusted sources like the **World Bank**, **IMF**, and **Trading Economics**. It enables users to visualize inflation trends, GDP growth, and other key economic indicators through interactive dashboards.

Key Components of the Architecture:

1. **Data Sources:**

   o **Data imported from Excel, SQL Databases, and Web Data Connectors linked to real-time economic data.**

2. **Data Transformation & Cleaning:**

   o **Cleaned data using Power Query to manage null values, remove outliers, and normalize inflation rates across regions.**

3. **Data Modelling:**

   o **Built comprehensive data models utilizing DAX to calculate metrics such as YoY Inflation %, Moving Averages, and Forecasted Trends.**

4. **Dashboard Design:**

   o **Developed visualizations such as Line Graphs, Heatmaps, and KPI Cards for quick insights.**

5. **User Interaction:**

   o **Integrated interactive filters for Year, Country, and Economic Indicators to provide customized insights.**

6. **Deployment & Sharing:**

   o **Deployed using Power BI Service for seamless access to stakeholders, ensuring insights are available across devices.**

Example - Solution Architecture Diagram: