**Project Design Phase**

**Solution Architecture**

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| Date | 04 March 2025 |
| Team ID | PNT2025TMID04759 |
| 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 analyze 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:**
   * **Data imported from Excel, SQL Databases, and Web Data Connectors linked to real-time economic data.**
2. **Data Transformation & Cleaning:**
   * **Cleaned data using Power Query to manage null values, remove outliers, and normalize inflation rates across regions.**
3. **Data Modeling:**
   * **Built comprehensive data models utilizing DAX to calculate metrics such as YoY Inflation %, Moving Averages, and Forecasted Trends.**
4. **Dashboard Design:**
   * **Developed visualizations such as Line Graphs, Heatmaps, and KPI Cards for quick insights.**
5. **User Interaction:**
   * **Integrated interactive filters for Year, Country, and Economic Indicators to provide customized insights.**
6. **Deployment & Sharing:**
   * **Deployed using Power BI Service for seamless access to stakeholders, ensuring insights are available across devices.**

# Example - Solution Architecture Diagram:

