Project Design Phase

Solution Architecture

Date	26-March-2025
Team ID	PNT2025TMID07057
Project Name	Project Name Power BI Inflation Analysis:
	Journeying Through Global Economic Terrain
Maximum Marks	4 Mark

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Architecture Overview: Power BI Inflation Analysis

The **Power BI Inflation Analysis** architecture is designed to process and visualize global economic inflation data efficiently. It follows a structured flow:

- 1. Data Sources Collects data from CSV files, APIs (World Bank, IMF), and databases.
- 2. **Data Ingestion** Uses **Power BI Dataflows** and API connectors for seamless integration.
- 3. **Processing & Transformation** Utilizes **Power Query (ETL)** for data cleaning and **DAX** calculations for inflation trends.
- 4. **Data Storage** Stores processed data in **Power BI Cloud, On-Premises Gateway, or Azure SQL**.
- 5. Visualization & Reporting Generates interactive dashboards, KPI metrics, and geographical heatmaps for insights.

6. **End Users** – Serves **economists**, **analysts**, **policymakers**, **and businesses** for decisionmaking.

Example - Solution Architecture Diagram:

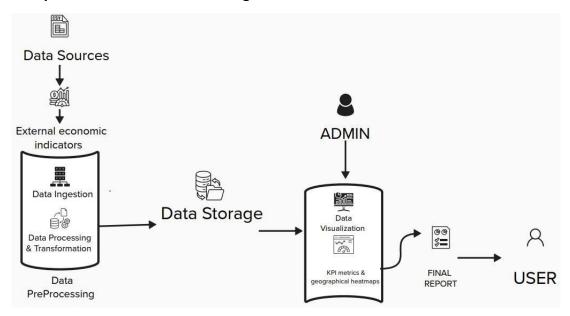


Figure 1:shows **Power BI Inflation Analysis**