**Project Design Phase**

**Proposed Solution Template**

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| Date | 15 February 2025 |
| Team ID | PNT2025TMID02756 |
| Project Name | **Power BI Inflation Analysis: Journeying Through Global Economic Terrain**. |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | The challenge in analyzing global inflation trends is the **lack of interactive, real-time data visualization tools**.  · Inflation rates vary significantly across different regions, making it **difficult for economists, policymakers, and business analysts** to analyze trends effectively.  · Traditional inflation tracking methods **lack interactivity and require manual effort**, making comparative analysis time-consuming.  · **There is no centralized platform** that allows real-time inflation visualization with country-wise comparisons and forecasting. |
|  | Idea / Solution description | The solution is an **interactive Power BI Dashboard** that:  · **Power BI-based interactive dashboard** for real-time global inflation analysis.  · **Imports data from Kaggle (CSV/Excel) and cleans it using Power Query**.  · **Stores structured data in the Power BI Data Model** for efficient analysis.  · **Provides dynamic visualizations (charts, graphs, maps)** for inflation trends across countries.  · **Enables interactive filtering & comparisons** by year, country, and region.  · **Allows automated report generation (PDF, PPT) for stakeholders**. |
|  | Novelty / Uniqueness | **First-of-its-kind Power BI implementation** for **global inflation tracking**.  · **Automates data processing**, eliminating the need for manual calculations.  · **Provides real-time filtering and comparisons** for country-wise inflation analysis.  · **No coding required**, making it accessible to **economists, analysts, and policymakers**. |
|  | Social Impact / Customer Satisfaction | · **Enables policymakers to analyze economic trends effectively** for better decision-making.  · **Helps businesses strategize based on inflation patterns and market conditions**.  · **Improves financial literacy** with interactive visual reports.  · **Supports students and researchers in economic trend analysis**. |
|  | Business Model (Revenue Model) | · **Premium Access:** Offers advanced forecasting and analytics features for businesses.  · **Custom Dashboards:** Provides personalized dashboards for financial institutions.  · **API Integration:** Connects live inflation data to external business systems.  · **Consulting Services:** Provides expert insights and customized reports based on Power BI analytics. |
|  | Scalability of the Solution | · **Can be expanded to include more economic indicators** like GDP, interest rates, and unemployment.  · **Integration of live data APIs** from sources like IMF and World Bank.  · **Deployment on Power BI Service (Cloud-Based) for wider accessibility**.  · **Development of mobile-friendly reports** for remote access via Power BI Mobile. |