

Project Design Phase
Proposed Solution Template

Date	13 March 2025
Team ID	PNT2025TMID02756
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain.
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>The challenge in analyzing global inflation trends is the lack of interactive, real-time data visualization tools.</p> <ul style="list-style-type: none">· 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.
2.	Idea / Solution description	<p>The solution is an interactive Power BI Dashboard that:</p> <ul style="list-style-type: none">· 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.

3.	Novelty / Uniqueness	<p>First-of-its-kind Power BI implementation for global inflation tracking.</p> <ul style="list-style-type: none"> · 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.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> · 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.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> · 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.
6.	Scalability of the Solution	<ul style="list-style-type: none"> · 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.