

Project Initialization and Planning Phase

Date	28 September 2025
Skillwallet ID	SWUID20250200484
Project Title	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

Project Overview		
Objective	To develop a dynamic, multi-dashboard Power BI solution for quantifying global inflation risk and evaluating the effectiveness of financial adjustment mechanisms across time and geography.	
Scope	Analysis of historical global inflation data (1980 - 2024), focusing on raw vs. adjusted rates, regional volatility, and time-series trends. The solution includes 4 interlinked interactive dashboards.	
Problem Statement		
Description	Financial institutions lack a unified, dynamic tool to analyze extreme inflation volatility (e.g., hyperinflation peaks exceeding 65,000%) and the performance of policy adjustments. The raw data is messy—it's in a wide format and lacks a clean date dimension, making standard Time Intelligence functions challenging. (Honestly, cleaning that hyperinflation data felt like a battle!)	
Impact	The current lack of clarity leads to sub-optimal dynamic pricing strategies and misallocation of investment capital due to the inability to quickly identify and filter risk hotspots and policy successes .	
Proposed Solution		
Approach	1. Data Curation & Modeling: Manual extraction and cleaning of historical data followed by Power Query Unpivot for a normalized	



	(tall) structure. 2. Advanced DAX: Implementation of custom, non- Time Intelligence DAX for accurate metrics. 3. Multi-Layer Visualization: Creation of 4 specialized dashboards (Global Summary, Operational Deep Dive, etc.) for layered analysis.
Key Features	1. Adjustment Effectiveness (%): A custom KPI to instantly show the percentage reduction in Max Inflation Rate after policy adjustment. 2. DAX Resilience: YoY Logic implemented via CALCULATE(, MAX([Year])-1) to calculate annual growth without a dedicated date table. 3. Volatility Hotspots: Max/Min Range Chart (V11) using Volatility_Range measure and advanced transparent bar formatting.

Resource Requirements

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	Standard PC for data processing and Power BI Desktop rendering.	Quad-core CPU (i5/Ryzen 5 equivalent or better)		
Memory	RAM specifications	8 GB RAM (16 GB Recommended for smoother development)		
Storage	Disk space for data, models, and logs	500 GB SSD (for fast application load)		
Software				
Frameworks	Data processing, analysis, and visualization	Microsoft Power BI Desktop		
Libraries	Additional libraries	Microsoft Power BI Desktop		
Development Environment	IDE, version control	Power BI Service (for publishing), DAX Studio (optional for debugging)		
Data				
Data	Source, size, format	Historical Global Inflation Data (1980–2024). Source: Manually Curated		



A co	IMF/World Bank data). Size: Approx. 1 MB (small but omplex). Format: CSV Unpivoted for model
ir	ntegrity).