

## **Project Initialization and Planning Phase**

Date	29 July 2025
Project Title	Global Inflation Analysis
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.

<b>Project Overview</b>		
Objective	To create an interactive, user-focused Power BI dashboard that enables real-time filtering and in-depth analysis of global inflation trends—tailored to the specific needs of analysts, strategists, and policy-makers.	
Scope  Problem Statement	<ul> <li>Analyze global inflation data from 1980 to 2024</li> <li>Provide visual comparisons at country and region levels</li> <li>Include slicers for year, region, inflation range, and country classification</li> <li>Focus solely on historical data visualization; no predictive models included</li> <li>Designed to support decision-making for multiple user personas (analyst, strategist, policy advisor)</li> </ul>	
Description	Different users analyzing global inflation face challenges due to limited flexibility in static reports and spreadsheets. They require tools that allow them to:  • Filter inflation data by their custom criteria (e.g., year range, inflation level, development status)  • Compare inflation patterns across countries and regions  • Tailor insights for different stakeholder groups	
Impact	By solving these challenges, we will:  • Empower users to generate dynamic views of inflation trends  • Reduce dependency on rigid Excel-based reporting  • Improve risk analysis, strategy planning, and policy brief	



	creation • Increase use	er confidence in presenting data-backed decisions	
<b>Proposed Solution</b>			
Approach	<ul> <li>Clean and tr</li> <li>Model relati</li> <li>Build custor</li> <li>Aver</li> <li>Year</li> <li>Stand</li> <li>Add slicers</li> <li>Regi</li> <li>Year</li> <li>Infla</li> <li>Cour</li> </ul>	<ul> <li>Year-over-Year (YoY) change</li> <li>Standard deviation (for inflation stability)</li> <li>Add slicers for:         <ul> <li>Region</li> <li>Year range</li> <li>Inflation range bucket (e.g., Low/Medium/High)</li> </ul> </li> </ul>	
Key Features	Stability Visual	Description  Top N Countries with Highest Inflation Country-wise YoY Inflation Trends Heatmap by Country/Region with filters For Year, Region, Inflation Level Countries with lowest standard deviation Grouped visuals by development status User-defined inflation buckets (e.g., 0–5%, 5–10%)	

## **Resource Requirements**

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	Required for Power BI processing	Standard laptop with Intel i5/i7, 4+ cores		
Memory	RAM specifications	Min 8 GB		
Storage	Data and Project storage	1 TB SSD		



Software				
Frameworks	BI Development	Microsoft Power BI Desktop		
Libraries	DAX	Built-in (no extra installation needed)		
Development Environment	BI platform, version control	Power BI Desktop, GitHub (for versioning)		
Data				
Data	Kaggle	Yearly inflation data, ~5 MB CSV and Country-Region mapping data		