

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	13 March 2025
Team ID	PNT2025TMID02756
Project Name	Power BI Inflation Analysis Journeying Through Global Economic Terrain
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Ingestion	Import global inflation dataset from Kaggle
FR-2	Data Cleaning	Handle missing values, standardize column names, and format data.
FR-3	Data Visualization	Generate Power BI reports (Line Charts, Heatmaps, Bar Graphs)
FR-4	Filtering & Analysis	Provide filtering options (by country, region, year).
FR-5	Predictive Insights	Use machine learning to forecast inflation trends (if applicable).

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard should be user-friendly and interactive.
NFR-2	Security	Ensure data integrity and restrict unauthorized modifications.
NFR-3	Reliability	Ensure consistent and accurate results across multiple executions.
NFR-4	Performance	Optimize Power BI queries to ensure fast rendering of reports.
NFR-5	Availability	The system should be accessible 24/7 with minimal downtime.
NFR-6	Scalability	Ensure the system can handle additional datasets in the future.