

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

Date	31 January 2025
Team ID	PNT2025TMID02642
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Visualization and Dashboard	Visualize inflation trends by country, region, and time Interactive charts and graphs using Power BI Drill-down features for detailed exploration of data
FR-4	Report Generation and Export	Generate downloadable reports on inflation data Include visualizations (charts, graphs) in reports Export reports in multiple formats (PDF, Excel, etc.)
FR-5	User Profile and Preferences	Ability for users to update profile details Set data filtering preferences (e.g., countries, years)
FR-6	Data Search and Filtering	Search for inflation data by country, year, and region Filter inflation data based on specific economic indicators (e.g., CPI, PPI, etc.)

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The system should be easy to navigate, with an intuitive UI/UX for data visualization.
NFR-2	<b>Security</b>	The system must ensure user data protection through secure authentication methods (e.g., OAuth, 2FA) and data encryption.
NFR-3	<b>Reliability</b>	The application should maintain consistent performance, ensuring no crashes or data loss under normal use conditions.
NFR-4	<b>Performance</b>	The system should load large datasets quickly (especially in Power BI dashboards) and deliver minimal latency for real-time interactions.

NFR-5	<b>Availability</b>	The application should be available 99.9% of the time, with a reliable backup and disaster recovery plan.
NFR-6	<b>Scalability</b>	The solution should be scalable to accommodate an increasing number of users and handle expanding datasets without performance degradation