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

Date	31 January 2025
Team ID	LTVIP2025TMID27587
Project Name	Global Malnutrition Analysis
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 Collection & Extraction From Database	Extract historical malnutrition data (1983-2019) from databases, ensuring accuracy and consistency.
FR-2	Data Preparation	Clean, normalize, and merge datasets for accurate analysis.
FR-3	Data Visualization	Generate interactive graphs and charts for malnutrition trends.
FR-4	Dashboard	A central dashboard displaying key statistics and trends.
FR-5	Design of Report	Structured reports with text analysis and visual insights.
FR-6	Amount Of Data Loaded	Efficiently handle large datasets for smooth performance.
FR-7	Utilizations Of Filters	Allow filtering by time, region, and demographics for specific analysis.
FR-8	No of Visualization/graphs	Support multiple graph types (line charts, heatmaps, pie charts, etc.).
FR-9	Project Demonstration & Documentation	Provide documentation and a demo showcasing system features.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should have an intuitive and user-friendly interface for easy navigation and interaction.
NFR-2	Security	Ensure data protection with encryption, authentication, and access control mechanisms.
NFR-3	Reliability	The system should function consistently without failures, ensuring accurate data processing.
NFR-4	Performance	Optimize response times and ensure smooth handling of large datasets without lag.
NFR-5	Availability	The system should be accessible 24/7 with minimal downtime.
NFR-6	Scalability	The system should handle increasing data volume and user load efficiently.