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

Date	7 February 2026
Team ID	LTVIP2026TMIDS77691
Project Name	Empowering India: Analysing the Evolution of Union Budget Allocations for Sustainable Growth
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 Integration and Preparation	-Import Union Budget dataset into the database (MySQL). -Clean and format dataset fields for analysis (rename columns, verify data types). -Validate data accuracy and remove missing or duplicate entries. -Prepare dataset for Tableau connection.
FR-2	Budget Allocation Analysis	-Analyze ministry-wise healthcare budget allocations. -Analyze scheme-wise healthcare funding distribution. -Compare budget allocations across financial years (2021–2024). -Identify top funded healthcare schemes and ministries.
FR-3	Visualization Dashboard Development	-Create category-wise and ministry-wise allocation charts. -Build scheme-level comparison visualizations. -Develop KPI cards showing total investment and top funding indicators. -Design an interactive Tableau dashboard integrating all visualizations.

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 provide an intuitive and user-friendly interface with clear visualizations, filters, and navigation so users can easily explore healthcare budget insights.
NFR-2	**Security**	Access to the database and dashboards should be protected using authentication and role-based permissions to ensure data confidentiality and integrity.
NFR-3	**Reliability**	The system should consistently produce accurate calculations, visualizations, and reports without data loss or processing errors.
NFR-4	**Performance**	Queries, dashboard loading, and visual updates should execute within acceptable response times to ensure smooth user interaction.
NFR-5	**Availability**	The analytics dashboard and database should be accessible whenever required, minimizing downtime during analysis or reporting.
NFR-6	**Scalability**	The system should support future expansion, allowing additional datasets, financial years, or sectoral information to be integrated without major redesign.