Project Design Phase-II

Solution Requirements (Functional s Non-functional)

Date	17 February 2026
Team ID	LTVIP2026TMIDS37529
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	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	User Login & Access	Login using Email & Password
		Forgot Password & Reset
		Secure Session Management
FR-4	Budget Data Management	Upload Union Budget Dataset
		Data Cleaning & Preprocessing
		Categorize Sector-wise Allocation
FR-5	Dashboard & Visualization	Year-wise Budget Trend Charts
		Sector-wise Allocation Graphs
		Filter by Year / Sector
FR-6	Analytics & Forecasting	Growth Rate Analysis
		AI-based Future Allocation Prediction
		Sustainability (SDG) Mapping
FR-7	Reports & Export	Download Reports in PDF
		Generate Comparative Reports
FR-8	Admin Management	Manage Users
		Monitor System Activity
		Update Budget Database

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should have a simple, user-friendly dashboard with clear visualizations.
NFR-2	Security	User data must be encrypted, and secure authentication must be implemented.
NFR-3	Reliability	The system should provide accurate analysis with minimal errors.
NFR-4	Performance	Dashboard and reports should load within 3–5 seconds.
NFR-5	Availability	The system should be available 24/7 with minimal downtime.
NFR-6	Scalability	The system should handle increasing budget datasets and multiple users efficiently.