

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

Date	17/06/25
Team ID	LTVIP2025TMID51568
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks

Functional Requirements:

The proposed solution must fulfill the following functional requirements to ensure successful data integration, analysis, visualization, and user interaction.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Import	Import toy manufacturing data from CSV file Connect Tableau to live MySQL database
FR-2	Data Cleaning & Transformation	Clean missing values Add calculated fields like Year, Lockdown
FR-3	Data Visualization	Create Tableau worksheets Build multiple dashboards
FR-4	User Interaction	Filter by region, year View comparative bar charts Allow dynamic interaction with charts and maps
FR-5	User Access	Role-based view (Analyst, Policy Maker, Developer) Download/export insights
FR-6	Feedback Loop	Stakeholders review and request changes Implement revision cycle

Non-functional Requirements:

These define how the system performs under constraints and expectations beyond the core functionality.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Tableau dashboard must be intuitive, easy to navigate, with clear filters
NFR-2	Security	Role-based access control, secure MySQL credentials
NFR-3	Reliability	Should handle missing or unexpected data without crashing
NFR-4	Performance	Fast dashboard rendering and chart loading
NFR-5	Availability	Accessible across devices with minimal setup or browser dependency
NFR-6	Scalability	Supports future additions (e.g., more years of data, regions, new charts)