

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

Date	04 February 2026
Team ID	LTVIP2026TMIDS89201
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
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 Linked IN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Dashboard Interaction	Apply filters by Region, Year, Toy Type View sales trend charts (line/bar/heatmap) Download visualization snapshots as PNG/PDF
FR-4	Data Upload & Management	Upload toy sales dataset (CSV/Excel) Validate and clean dataset Map dataset columns to dashboard fields
FR-5	User Feedback Collection	Submit toy preferences via survey form View survey results (charts/summary) Vote on top toys for a given season
FR-6	Admin Dashboard	Manage users (approve/restrict access) Monitor dashboard usage (views, activity logs) Update or refresh datasets

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 be intuitive and easy to navigate for users with minimal data literacy, including filters, tooltips, and charts that are clear and understandable.
NFR-2	Security	User data and login credentials (especially for survey participants or registered users) must be protected using authentication protocols and secure storage (e.g., HTTPS, password hashing).
NFR-3	Reliability	The platform must consistently load dashboards and visualizations without errors or data corruption. Data integrity should be ensured during uploads and visual refreshes.
NFR-4	Performance	Visualizations should load within 3–5 seconds for standard datasets (up to 10,000 records). Performance should not degrade noticeably with filtering or interaction.
NFR-5	Availability	The system (dashboard and data access) should be available 95% of the time during academic project hours or public viewing periods, ensuring stakeholders can access it when needed.
NFR-6	Scalability	The system should support future integration with larger datasets (e.g., multi-year sales data) and more users (e.g., across regions or institutions) without requiring complete redesign.



