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

Date	25 June 2025
Team ID	LTVIP2025TMID48377
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 via Gmail - Registration via LinkedIn
FR-2	User Confirmation	- Confirmation via Email - Confirmation via OTP
FR-3	Data Integration	- Connect Tableau to Manufacturer Database - Integrate with Excel, ERP Systems - API Support
FR-4	Data Cleaning & Preparation	- Handle missing/null values - Standardize dates and times - Categorize product data
FR-5	Dashboard Development	- Sales Performance Dashboard - Inventory Tracking Dashboard - Regional Performance Dashboard
FR-6	User Role Management	- Define Admin, Analyst, and Viewer roles - Control access to dashboards based on roles
FR-7	Export and Sharing Features	- Export dashboards as PDF/PNG - Share dashboards via secure links or email
FR-8	Feedback Collection	- User feedback forms for dashboard usability - Rating system for visualizations
FR-9	Real-Time Data Refresh	- Support scheduled refreshes - Allow manual data refresh options

FR-10	Security & Compliance	- Data encryption during transmission - Ensure GDPR/industry compliance

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 provide an intuitive and userfriendly interface that allows users (e.g., manufacturers, analysts) to navigate dashboards and retrieve insights without prior technical training.
NFR-2	**Security**	Data must be secured through role-based access controls, encryption in transit and at rest, and integration with secure authentication mechanisms (e.g., OAuth for Gmail/LinkedIn logins).
NFR-3	**Reliability**	The solution should ensure consistent performance with minimal errors or crashes, including errorhandling and data recovery mechanisms.
NFR-4	**Performance**	Dashboards and visualizations should load within 3 seconds for optimal user experience, even with large datasets. Backend processes (ETL, data refresh) must complete within defined SLAs.
NFR-5	**Availability**	The application should be available at least 99.5% of the time, excluding planned maintenance, to ensure continuous access for stakeholders.
NFR-6	**Scalability**	The system must support growth in data volume, user traffic, and dashboard complexity without degradation in performance or reliability. It should be deployable in scalable environments (e.g., cloudbased Tableau Server).