

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

Date	25 June 2025
Team ID	LTVIP2025TMID47679
Project Name	Toy Craft 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	Toy Customization	3D Builder Tool (Drag-and-Drop Parts) Story-Based Themes (Pre-Designed Kits) Save/Share Designs
FR-4	Order Management	Cart System (Add/Remove Items) Bulk Order Discounts (Schools/Educators) Order Tracking (Shipping Status)
FR-5	Payment Processing	Secure Checkout (Stripe/PayPal) Gift Wrapping Options
FR-6	Feedback & Community	Review System (Ratings + Photos) User-Generated Design Gallery

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Intuitive UI for children/parents (e.g., simple 3D builder, clear navigation).
NFR-2	<b>Security</b>	PCI-DSS compliance for payments; encrypted user data (GDPR/COPPA).
NFR-3	<b>Reliability</b>	99.9% uptime for order processing; backup systems for customization tool.
NFR-4	<b>Performance</b>	<2s load time for product pages; handle 10K concurrent users during holidays.
NFR-5	<b>Availability</b>	Multi-region cloud hosting (AWS/GCP) to reduce latency.
NFR-6	<b>Scalability</b>	Modular backend to support 5x traffic spikes (e.g., Black Friday).