Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 2 July 2025 |
| Team ID | LTVIP2025TMID50858 |
| 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.

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| **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 | Login | * Login via email & password * Login via Gmail or LinkedIn |
| FR-4 | Dashboard Access | * User views dashboard after login * Visualizations of toy categories, brands, regions, and seasons. |
| FR-5 | Toy Data Visualization | * Display charts for sales trends, price distribution, popularity, brand/category comparison. |
| FR-6 | Toy store/Market Map | * Show nearest toy store presence or regional sales coverage using an interactive map. |
| FR-7 | Filtering and Searching | * Filter toy data by price, brand, region, category, age group, etc. |
| FR-8 | Export and Reporting | * Export dashboards as PDF or image * Download summary reports |
| FR-9 | Admin Data Management | * Upload or refresh datasets (CSV, Excel) * Approve new data uploads |
| FR-10 | Customer Support Access (Optional) | * Submit feedback or report data inaccuracies * View respond to support tickets. |

# Non-functional Requirements:

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

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| **NFR**  **No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | The ToyCraft dashboard interface should be intuitive and responsive for both mobile and desktop users — suitable for analysts, marketers, and decision-makers. |
| NFR-2 | Security | User login data, toy sales uploads, and brand-sensitive reports must be encrypted and securely stored. |
| NFR-3 | Reliability | The ToyCraft platform should function consistently without crashes or data loss during dashboard use or report  generation. |
| NFR-4 | Performance | Dashboards, charts, and filters should load within 3 seconds, even when analyzing large toy datasets or multiple brands. |
| NFR-5 | Availability | The service must maintain 99% uptime, ensuring availability during product launches or sales analysis periods. |
| NFR-6 | Scalability | ToyCraft must handle increasing numbers of users, data uploads (e.g., seasonal or regional reports), and queries without degradation in performance. |