

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

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|---------------|---|
| 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<br>Registration through Gmail<br>Registration through Linked IN  |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| FR-3   | Dashboard Interaction         | Apply filters by Region, Year, Toy Type<br>View sales trend charts (line/bar/heatmap)<br>Download visualization snapshots as PNG/PDF |
| FR-4   | Data Upload & Management      | Upload toy sales dataset (CSV/Excel)<br>Validate and clean dataset<br>Map dataset columns to dashboard fields                        |
| FR-5   | User Feedback Collection      | Submit toy preferences via survey form<br>View survey results (charts/summary) Vote<br>on top toys for a given season                |
| FR-6   | Admin Dashboard               | Manage users (approve/restrict access)<br>Monitor dashboard usage (views, activity logs)<br>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  | <b>Usability</b>           | 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  | <b>Security</b>            | 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  | <b>Reliability</b>         | 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  | <b>Performance</b>         | 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  | <b>Availability</b>        | 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  | <b>Scalability</b>         | 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.    |



