

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

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Registration	<ul style="list-style-type: none"> <li>• Registration through Form</li> <li>• Registration through Gmail</li> <li>• Registration through LinkedIn</li> </ul>
FR-2	User Confirmation	<ul style="list-style-type: none"> <li>• Confirmation via Email</li> <li>• Confirmation via OTP</li> </ul>
FR-3	Login	<ul style="list-style-type: none"> <li>• Login via email &amp; password</li> <li>• Login via Gmail or LinkedIn</li> </ul>
FR-4	Dashboard Access	<ul style="list-style-type: none"> <li>• User views dashboard after login</li> <li>• Visualizations of toy categories, brands, regions, and seasons.</li> </ul>
FR-5	Toy Data Visualization	<ul style="list-style-type: none"> <li>• Display charts for sales trends, price distribution, popularity, brand/category comparison.</li> </ul>
FR-6	Toy store/Market Map	<ul style="list-style-type: none"> <li>• Show nearest toy store presence or regional sales coverage using an interactive map.</li> </ul>
FR-7	Filtering and Searching	<ul style="list-style-type: none"> <li>• Filter toy data by price, brand, region, category, age group, etc.</li> </ul>
FR-8	Export and Reporting	<ul style="list-style-type: none"> <li>• Export dashboards as PDF or image</li> <li>• Download summary reports</li> </ul>
FR-9	Admin Data Management	<ul style="list-style-type: none"> <li>• Upload or refresh datasets (CSV, Excel)</li> <li>• Approve new data uploads</li> </ul>
FR-10	Customer Support Access (Optional)	<ul style="list-style-type: none"> <li>• Submit feedback or report data inaccuracies</li> <li>• View respond to support tickets.</li> </ul>

### **Non-functional Requirements:**

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

<b>NFR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
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.