Phase 2: Solution Requirements – Jewel Management System

# Project Details

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| **Project Title** : Jewel Inventory System  **Team ID** : LTVIP2025TMID29406  **Date**  : 30/06/2025  **College**  : G Pullaiah College of Engineering and Technology |

# 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 | Customer Management | Create and manage Jewel Customer records; maintain personal and contact details | |  |  |  | | FR-2 | Item Management | Add gold/silver items, define type, weight, purity, and KDM; link to customer orders | | FR-3 | Price Management | Add/update/delete price entries; use custom logic for purity-based pricing | | FR-4 | Billing Management | Create billing records, apply taxes and charges; auto-calculate Paid Amount via trigger | | FR-5 | Record Type & Layout Setup | Create Gold/Silver Record Types; assign appropriate page layouts per profile | | FR-6 | Automation & Validation | Use validation rules and Flows to automate data entry and price calculation | | FR-7 | Reports & Dashboards | Generate reports (e.g., Items by Purity, Billings per Customer); create dashboards for billing trends | |  |
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# Non-functional Requirements

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

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| NFR No. | Description |
| NFR-1 | Usability – Intuitive interface using Salesforce Lightning App and record pages |
| NFR-2 | Security – Profile and role-based access for Goldsmith, Worker, and Admin; field-level permissions |
| NFR-3 | Reliability – Salesforce ensures consistent record access and audit tracking |
| NFR-4 | Performance – Fast processing with optimized Flows, Apex triggers, and lightweight page layouts |
| NFR-5 | Availability – 99.9% uptime through Salesforce Cloud Services |
| NFR-6 | Scalability – Support for additional users, new item types, and future integrations without architecture change |