**Project Design Phase-II**

**Solution Requirements**

| Date | 31 june 2025 |
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| Team ID | LTVIP2025TMID28960 |
| Project Name | Automated Car Catalog System For Enhanced Showroom Management |
| Maximum Marks | 4 Marks |

**(Functional & Non-functional)**

**Functional Requirements:**

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**Non-functional Requirements:**

| **FR No.** | **Non-Functional Requirement** | **Description** |
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| NFR-1 | Usability | Interface should be simple and intuitive for customers, managers, and staff |
| NFR-2 | Security | Role-based access (customer, manager, admin), secure login (OAuth2, SSO) |
| NFR-3 | Reliability | Handle requests without errors; ensure data consistency |
| NFR-4 | Performance | System responds within 2 seconds for all key actions. |
| NFR-5 | Availability | 99.9% uptime; system should be active even in peak business hours |
| NFR-6 | Scalability | Should support adding more car models, users, and bookings as showroom grows |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Car Catalog Management | View available cars  Search cars by brand/specifications  Filter by price/ availability/location |
| FR-2 | Car Request Submission | Submit car booking request  Attach required documents(license/ID)  Select car model from catalog |
| FR-3 | Request Approval Workflow | Manager reviews and approves /rejects requests.  Notifications to user.  Record approval history.   |  |  |  | | --- | --- | --- | |
| FR-4 | Car Allocation | | Assign car to customer after approval  Update inventory status.  Notify customer of allocation. |  |  | | --- | --- | --- | |
| FR-6 | User Dashboard | Track request status(pending/approved/allocated)  View allocated car details  Cancel requests before approval |