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

Date	28 JUNE 2025
Team ID	LTVIP2025TMID49487
Project Name	House hunt: finding your perfect rental home
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 Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Order Placement	Add products to cart Apply discount/coupon code Place order in offline/online mode
FR-4	AI Chatbot Support	Natural language conversation Help with placing orders Order tracking
FR-5	Voice-Based Ordering	Convert voice to text using Watson STT Process voice commands for order placement
FR-6	Order Status & Tracking	View order history Track order using Order ID Delivery status notifications
FR-7	Admin Panel	View/manage all orders Update order status Access analytics dashboard
FR-8	Product Management	Add/update/remove products Categorize products
FR-9	Payment Processing (if online)	Integration with payment gateway Handle payment status callbacks
FR-10	Weather-Aware Delivery Logic	Use weather API to assess delivery conditions Alert users in case of disruption

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Intuitive UI/UX design for end-users on web & mobile, responsive layout
NFR-2	**Security**	Secure user data, encrypted API communication, IAM controls, OWASP practices
NFR-3	**Reliability**	99.9% uptime target, robust failover mechanisms, automated backups
NFR-4	**Performance**	Handle 1000+ concurrent users, <300ms API response time, caching for speed
NFR-5	**Availability**	Multi-zone cloud setup, load balancers, auto-restart for failed containers
NFR-6	**Scalability**	Containerized microservices with autoscaling support via Kubernetes