

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date: 19 June 2025

Team ID: LTVIP2025TMID55293

Project Name: HOUSE RENT APP USING MERN:

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	<ul style="list-style-type: none">• Registration through Form• Registration through Google account
FR-2	User Login	<ul style="list-style-type: none">• Login with Email and Password
FR-3	Profile Management	<ul style="list-style-type: none">• Create/Update Owner Profile• Create/Update Tenant Profile
FR-4	Property Management (Owner)	<ul style="list-style-type: none">• Post New Property Listing• View Booking Requests• Approve/Reject Requests• Provide Feedback/Rating
FR-5	Property Search (Tenant)	<ul style="list-style-type: none">• Browse/Filter Properties• Send Booking Request• Track Booking Status
FR-6	Communication & Collaboration	<ul style="list-style-type: none">• Integrated Chat System between Tenant and Owner• Real-Time Notifications
FR-7	Admin Panel	<ul style="list-style-type: none">• Manage Users (Tenants and Owners)• Manage Listings and Disputes

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement Description
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NFR-1	Usability: User-friendly UI with simple navigation and responsive design using Bootstrap and modern libraries.
NFR-2	Security: Secure handling of user data with proper encryption and authentication.
NFR-3	Reliability: System should perform consistently under varying user loads.
NFR-4	Performance: Fast loading times for listings, chat, and booking using MERN stack.
NFR-5	Availability: System should ensure high uptime and availability.
NFR-6	Scalability: Easily extendable and scalable architecture for future feature additions.