# 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.

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| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| FR-1 | User Registration | • Registration through Form • Registration through Google account |
| FR-2 | User Login | • Login with Email and Password |
| FR-3 | Profile Management | • Create/Update Owner Profile • Create/Update Tenant Profile |
| FR-4 | Property Management (Owner) | • Post New Property Listing • View Booking Requests • Approve/Reject Requests • Provide Feedback/Rating |
| FR-5 | Property Search (Tenant) | • Browse/Filter Properties • Send Booking Request • Track Booking Status |
| FR-6 | Communication & Collaboration | • Integrated Chat System between Tenant and Owner • Real-Time Notifications |
| FR-7 | Admin Panel | • Manage Users (Tenants and Owners) • Manage Listings and Disputes |

## Non-functional Requirements:

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

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| --- | --- |
| NFR No. | Non-Functional Requirement Description |
| 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. |