

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

Date	31/06/2025
Team ID	LTVIP2025TMID46284
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 via Form Registration via Gmail (optional)
FR-2	User Login & Authentication	Login using email & password Role-based login (Admin, Owner, Renter)
FR-3	Property Management	Owner can Add / Edit / Delete property View property list
FR-4	Property Search	Renter can search by filters (location, price, amenities) Save searches
FR-5	Booking Process	Renter submits booking request Owner updates booking status
FR-6	Admin Management	Admin approves users as Owners Admin monitors property listings
FR-7	Notifications	Email alerts on booking & approval Price drop alerts
FR-8	View Booking History	Renter can view previous/current bookings Status shown as Pending / Approved / Rejected
FR-9	Media Upload	Owner uploads property images Supports multiple images
FR-10	Dashboard	Individual dashboards for Renter, Owner, and Admin

**Non-functional Requirements:**

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Intuitive UI using React, Material UI, and Bootstrap for a smooth user journey
NFR-2	Security	Secure authentication with JWT, encrypted passwords using bcryptjs
NFR-3	Reliability	Consistent MongoDB storage, error-handling with Express.js
NFR-4	Performance	Fast load times, Axios for efficient API requests, optimized routing
NFR-5	Availability	24/7 access on browser; can be hosted on cloud platforms like Vercel/Heroku
NFR-6	Scalability	Built on scalable MERN architecture, modular codebase for future upgrades