

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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|---------------|---|
| Date | 21-02-2026 |
| Team ID | LTVIP2026TMID53603 |
| Project Name | HouseHunt: Finding Your Perfect Rental Home |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

Functional Requirements

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|---|
| FR-1 | User Authentication | Sign up, Login, Password Reset Role-based access for Renter, Owner, Admin |
| FR-2 | Property Listings | Add/Edit/Delete Properties View listings with details, images, price, and location |
| FR-3 | Search & Filters | Filter listings by price, location, number of rooms, and amenities |
| FR-4 | Booking System | Send booking requests Accept/Reject bookings Track booking status |
| FR-5 | Lease Agreement | Negotiate and finalize rental terms In-app chat for agreement and confirmation |
| FR-6 | Admin Verification | Admin approves or denies owner account and property listings |

Non-functional Requirements:

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

| NFR No. | Non-Functional Requirement | Description |
|----------------|-----------------------------------|--|
| NFR-1 | Usability | UI should be intuitive for all roles: renter, owner, and admin. |
| NFR-2 | Security | Data encryption and secure login via JWT; role-based access control. |
| NFR-3 | Reliability | Property listings and booking services must remain available at all times. |
| NFR-4 | Performance | Search, filters, and booking must respond within 2 seconds. |
| NFR-5 | Availability | Ensure 99.9% system uptime with monitoring. |
| NFR-6 | Scalability | Support expanding users and listings without performance issues. |