**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 14 April 2025 |
| Team ID | SWTID1743354369 |
| Project Name | House Rent App Using MERN – House Hunt |
| 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 via Email Registration via Gmail Registration via Phone Number |
| FR-2 | User Login | Login via Email Login via OTP Remember Me Functionality |
| FR-3 | Property Listings | Landlords can post property Add photos, descriptions, rent amount, location Edit/Delete listings |
| FR-4 | Property Search | Search by location, price, type Advanced filters (furnished, number of rooms, pet-friendly) |
| FR-5 | Booking & Scheduling Visits | Tenants can request a visit Landlords approve visit slots Calendar integration |
| FR-6 | Favorites | Save listings to favorites View/manage saved properties |
| FR-7 | Reviews & Ratings | Tenants can review landlords Landlords can rate tenants |
| FR-8 | Notifications | Email/Push notifications for booking status New listings alerts |
| FR-9 | Admin Panel | Manage users Approve/reject listings View reports |
| FR-10 | Chat System | Direct chat between tenant and landlord File/image sharing support |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | The UI should be clean, intuitive, and mobile-responsive |
| NFR-2 | Security | Data encryption, secure authentication, and role-based access control |
| NFR-3 | Reliability | Ensure data accuracy and uptime through robust backend and monitoring |
| NFR-4 | Performance | Fast load times (<2 seconds), optimized image loading |
| NFR-5 | Availability | 99.9% uptime, with auto-scaling on traffic surge |
| NFR-6 | Scalability | Support for thousands of concurrent users and listings |