**Requirement Gathering and Analysis Phase**

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

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| --- | --- |
| Date |  |
| Team ID | SWTID1720019632 |
| Project Name | HOUSE RENT APP USING MERN |
| Maximum 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 |
| FR-2 | Property Listing | * Type of Property * Price and Availability * Location of Property |
| FR-3 | Property Submission | * Registration of Owner Details through Form * Property Details and Proof Document * Uploading Property Images and Features |
| FR-4 | Property Details | * Detailed Description of Property * Image Carousel * Status of Property (Booked or Requested) |
| FR-5 | Booking Property | * Requesting Property through Form * Filling The User Details to Request to Owner * Cancel Booking |
| FR-6 | Admin Dashboard | * Handle The User and Owner List * Approve The Owner to post Property in the site * Monitor the Property Booking Status |
| FR-7 | Property Management | * Reject Rental Request by User * Approve Rental and Change Status by Owner * Add Property to the site by Owner * Delete the posted Property * Update the Property Details |

**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 user interface should be intuitive and easy to navigate for users of all technical backgrounds. * The application should provide a clear and responsive List of Property Cards for users of all kinds of device. * The property viewing and renting experience should be easy and user-friendly |
| NFR-2 | **Security** | * The application must implement secure user authentication and authorization mechanisms. * All the Booking and User Details filling must be secure, and the API request and response data must be encrypted. * The app must run in https protocol and be hosted in a genuine hosting site. |
| NFR-3 | **Reliability** | * The application should be highly reliable with minimal downtime or disruptions. |
| NFR-4 | **Performance** | * The application should provide high quality images of the property and the booking status must reflect changes without any delay * It must be responsive in all devices with all sizes. |
| NFR-5 | **Availability** | * The application should be available to users 24/7 with minimal downtime for maintenance. * The application should be able to handle high volumes of concurrent users without performance degradation. |
| NFR-6 | **Scalability** | * The platform must easily scale to accommodate a growing number of users, properties, and locations. * With robust cloud infrastructure it must ensure reliable performance and efficient handling of increased demand and data |