# Non-Functional Requirements

| Jira ID | *Release Number* |
|---|---|
| **Document Status** | READY FOR REVIEW |
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## Introduction

This document details the non-functional requirements captured against RPM Organization.

| | Title | User Story | Requirement |
|---|---|---|---|
| 1 | **Performance** | As a user, I want the system to perform based on the performance requirements listed, so that i can ensure that performance of the system is on track. | <ul><li>**Expected Load**:<ul><li>Average no. of Properties - 6000</li><li>Average number of users in the system - 25000<ul><li>Property Owners - 12000</li><li>Tenants - 12000</li><li>Vendors - 500</li><li>Property Managers - 500</li></ul></li></ul></li><li>Average number of expected records and performance against each module:<ul><li>**User Management**<ul><li>Expected number of records - 25000</li><li>Concurrent number of users - 100</li><li>Expected time for loading - 3 Seconds</li><li>Time taken to load -</li></ul></li><li>**Branch Management**<ul><li>Expected number of records - 100</li><li>Concurrent number of users - 10</li><li>Expected time for loading - 2 Seconds</li><li>Time taken to load -</li></ul></li><li>**CRM**<ul><li>Expected number of records - 100000 (But will increase as long as application is running, since inquiries cannot be deleted)</li><li>Concurrent number of users - 100</li><li>Expected time for loading - 5 Seconds</li><li>Time taken to load -</li></ul></li><li>**Applications Management**<ul><li>Expected number of records - 50,000</li><li>Concurrent number of users - 100</li><li>Expected time for loading - 3 Seconds</li><li>Time taken to load -</li></ul></li><li>**Form Management**<ul><li>Expected number of fields against a form - 200</li><li>Expected time for saving - 3 Seconds</li><li>Time taken to save form -</li><li>Expected number of form records - 50</li><li>Concurrent number of users - 10</li></ul></li><li>**Document Template**<ul><li>Expected number of fields required to map - 200</li><li>Expected time for loading hellosign in a 100 MB/S network - 3 Seconds</li><li>Time taken to load hello sign interface -</li><li>Expected time for saving hellosign in a 100 MB/S network - 3 Seconds</li><li>Time taken to save the mapped template -</li><li>Concurrent number of users - 10</li></ul></li></ul></li></ul> |

- **Property Management**
  - Expected number of records - 6000
  - Expected time for loading - 3 Seconds
  - Time taken to load -
  - Concurrent number of users - 1000
- **Property Owner Management**
  - Expected number of records - 12000
  - Expected time for loading - 4 Seconds
  - Time taken to load -
  - Concurrent number of users - 100
- **Tenant Management**
  - Expected number of records - 12000
  - Expected time for loading - 4 Seconds
  - Time taken to load -
  - Concurrent number of users - 100
- **Listing Agreement Management**
  - Expected number of records - 50000
  - Expected time for loading - 5 Seconds
  - Time taken to load -
  - Concurrent number of users - 1000
- **Lease Agreement Management**
  - Expected number of records - 50000
  - Expected time for loading - 5 Seconds
  - Time taken to load -
  - Concurrent number of users - 1000
- **Workflow Management (Workflow Instance)**
  - Expected number of records - 100000
  - Expected time for loading - 6 Seconds
  - Time taken to load -
  - Concurrent number of users - 50
- **Public Website**
  - Expected number of records - 1000
  - Expected time for loading - 3 Seconds
  - Time taken to load -
  - Concurrent number of users - 10000
- **Key Tag**
  - Expected number of records - 24000
  - Expected time for loading - 4 Seconds
  - Time taken to load -
  - Concurrent number of users - 100
- **Lock Box**
  - Expected number of records - 6000
  - Expected time for loading - 3 Seconds
  - Time taken to load -
  - Concurrent number of users - 50
- **Work Order Management**
  - Expected number of records - 30000
  - Expected time for loading - 4 Seconds
  - Time taken to load -
  - Concurrent number of users - 5000
- **In-App Notification**
  - Expected number of notifications - 1000
  - Expected time for loading - 2 Seconds
  - Time taken to load -
- **Calendar View of Schedules**
  - Expected number of records - 400
  - Expected time for loading - 2 Seconds
  - Time taken to load -
- **Dashboards**
  - Expected time for loading - 4 Seconds
  - Time taken to load -

|   |   |   | <ul><li>**Bank Accounts**<ul><li>Expected number of records - 40000</li><li>Expected time for loading - 4 Seconds</li><li>Time taken to load -</li><li>Concurrent number of users - 50</li></ul></li><li>**Agreement Charges**<ul><li>Expected number of transactions records - 5000</li><li>Expected time for loading - 3 Seconds</li><li>Time taken to load -</li><li>Concurrent number of users - 10</li></ul></li><li>**Pending Dues**<ul><li>Expected number of dues - 15000</li><li>Expected number of undeposited funds - 3000</li><li>Expected time for loading - 3 Seconds</li><li>Time taken to load -</li><li>Concurrent number of users - 100</li></ul></li><li>**Master Workflow**<ul><li>Expected number of records against Primary BO - Applicant - 24000</li><li>Expected time for loading - 4 Seconds</li><li>Time taken to load -</li><li>Expected number of records against Primary BO - Property - 6000</li><li>Expected time for loading - 3 Seconds</li><li>Time taken to load -</li><li>Expected number of records against Primary BO - Listing - 50000</li><li>Expected time for loading - 4 Seconds</li><li>Time taken to load -</li><li>Expected number of records against Primary BO - Lease - 50000</li><li>Expected time for loading - 4 Seconds</li><li>Time taken to load -</li><li>Concurrent number of users - 100</li></ul></li><li>**Reports**<ul><li>Expected number of records - 200000</li><li>Expected time for loading - 6 Seconds</li><li>Time taken to load -</li></ul></li></ul> |
|---|---|---|---|
| 2 | **Portability and Compatibility** | As a user, I want the system to be compatible to be used in the browsers and devices listed, so that i can ensure that application can be used in specified devices and browsers | <ul><li>Browser Compatibility<ul><li>Latest 2 versions of the following browser:<ul><li>**Safari**</li><li>**Chrome**</li></ul></li></ul></li><li>Device Compatibility<ul><li>Application responsiveness on the following devices/resolutions:<ul><li>Apple iPad 10.2 with resolution 1620 x 2160 pixels</li><li>Samsung Galaxy Tab S6 5G with resolution 1600 x 2560 pixels</li><li>Apple iPhone 11 Pro with resolution 1125 x 2436 pixels</li><li>Apple iPhone SE (2020) with resolution 750 x 1334 pixels</li><li>Samsung Galaxy S10 with resolution 1440 x 3040 pixels</li><li>Google Pixel 3a with resolution 1080 x 2220 pixel</li></ul></li></ul></li></ul> |
| 3 | **Availability** | As a user, I want the system to be available based on the availability requirements mentioned, so that all the operations can be performed 24/7. | <ul><li>Application should be up and running 99% of the time in a month.</li></ul> |
| 4 | **Localization** |  | <ul><li>Date Format - DD/MMM/YYYY (E.g: 10/Aug/2020)</li><li>Time Zone - UTC time handled in the system and convert into local time.</li><li>Time Format - HH:MM</li><li>Clock - 12 Hour</li></ul> |
| 5 | **Account Details and Encryption** | As a user, I want the system to store all the account related data encrypted in the database and API communication, so that system can operate in secure manner. | 1. User Password should be encrypted in the system.<br>2. Account related details should be encrypted.<br>3. Account related information should be encrypted in the API communication.<br>4. All transactions are performed on end-to-end encryption.<br>5. API must be encrypted to avoid external alteration. |

| 6 | **Security Standards** | As a user, I want the system to follow certain security standards, so that vulnerabilities can be evaded. | 1. Application Security Encryption -<br>   a. **HTTPS**<br>   b. **SSL**<br>2. Infrastructure level security handled in **AWS Cloud**. |