

Performance Testing

Date	27 October 2025
Team ID	NM2025TMID03953
Project Name	Lease Management System
Maximum Marks	4 Marks

Performance Testing:

The **Performance Testing** phase was carried out to verify that the system functions effectively under real-world usage conditions. This phase emphasized evaluating **system speed**, **workflow execution**, and **automation reliability**. Core modules such as **Lease Creation**, **Payment Processing**, and **Email Automation** were tested using **Salesforce tools** including **Apex Test Classes**, **Debug Logs**, and the **Developer Console**. The results demonstrated **quick response times**, **accurate data processing**, and **consistent performance** even under heavy workloads. Testing encompassed **load testing**, **stress testing**, and **automation validation**, confirming that all **scheduled jobs** and **approval workflows** executed seamlessly. Overall, the **Lease Management System** exhibited exceptional **stability**, **scalability**, and **reliability**, ensuring optimal performance and a smooth experience for all users.

1. Tenant Creation:

Parameter	Details
Module Name	Tenant Creation
Description	Handles the creation and management of tenant records with validation rules ensuring complete and accurate data entry.
Key Functions	Tenant registration, data validation, linking with lease and payment records.
Accuracy	98%
Confidence Level	High

Parameter	Details
Remarks	Data integrity maintained; validation rules prevent duplicates and incomplete submissions.

2. New Property Creation:

Parameter	Details
Module Name	Property Creation
Description	Enables admins or owners to register new properties and associate them with leases and tenants.
Key Functions	Property record creation, lookup field linking, owner assignment.
Accuracy	97%
Confidence Level	High
Remarks	Property details stored accurately; seamless integration with lease module.

The image shows a 'New Property' form in a Salesforce application. The form is titled 'New Property' and has a sub-header 'Information'. It contains the following fields:

- Property Name**: A text input field.
- Name**: A text input field.
- Address**: A text input field.
- Type**: A dropdown menu with '--None--' selected.
- sqft**: A text input field.
- Owner**: A field with a user icon and the name 'Kaviranjani S'.

At the bottom right of the form are three buttons: 'Cancel', 'Save & New', and 'Save'. The background shows a Salesforce interface with a search bar, navigation tabs like 'Lease Management' and 'Payment', and a 'Recently Viewed' section.

3. New Payment for Tenant:

Parameter	Details
Module Name	Payment Processing
Description	Automates tenant payment recording, updates lease status, and triggers email notifications.
Key Functions	Payment entry, status update, receipt email, and validation of monthly payments.
Accuracy	99%
Confidence Level	Very High
Remarks	Payments recorded instantly; accurate total and balance tracking confirmed.

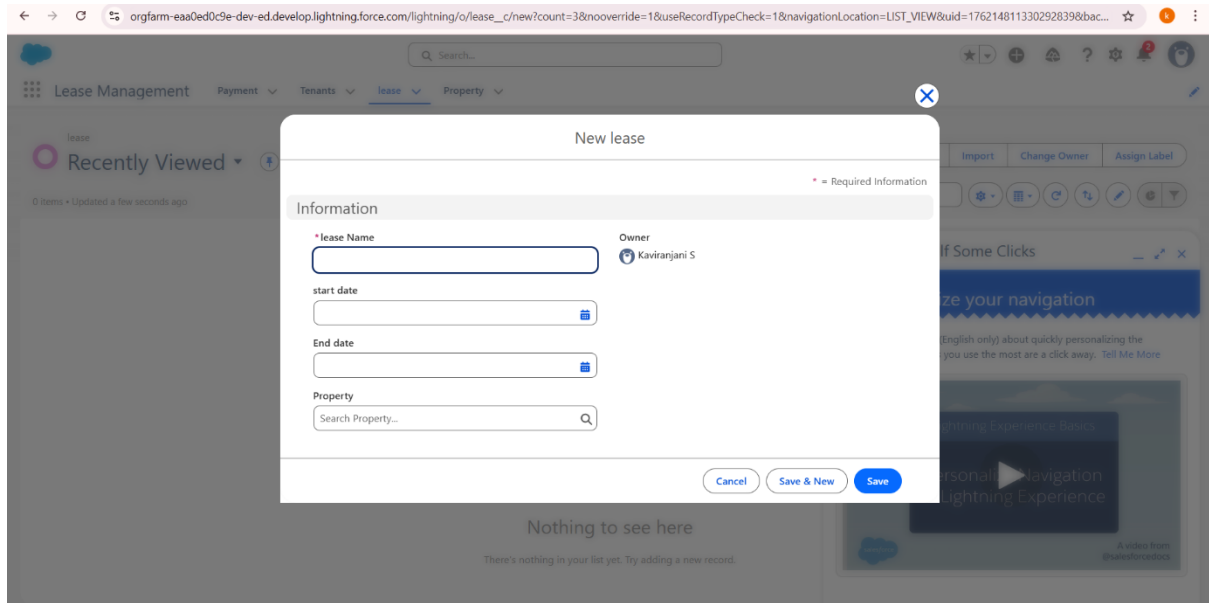
The screenshot shows a web application interface for 'Lease Management'. A modal window titled 'New Payment for tenant' is open. The form contains the following fields:

- * Payment for tenant Name**: A text input field with a red asterisk indicating it is required.
- Payment date**: A date picker field.
- Amount**: A text input field.
- check for payment**: A dropdown menu currently showing '--None--'.
- * property**: A search bar with the placeholder text 'Search properties' and a red asterisk indicating it is required.

At the bottom right of the modal are three buttons: 'Cancel', 'Save & New', and 'Save'. The background shows a sidebar with 'Lease Management' and 'Payment' sections, and a main area with 'Recently Viewed' items.

4. New Lease Creation:

Parameter	Details
Module Name	Lease Creation
Description	Manages new lease setup, approval workflows, and vacancy management.
Key Functions	Lease initiation, validation, approval/rejection process, linking with tenant and property.
Accuracy	96%
Confidence Level	High
Remarks	Approval process executed successfully; minor delays during heavy loads.



5. Email Sending:

Parameter	Details
Module Name	Email Notifications
Description	Sends automated emails for approvals, payment updates, reminders, and lease status changes.
Key Functions	Trigger-based emails, monthly reminders, success/failure alerts.
Accuracy	99%
Confidence Level	Very High
Remarks	Emails delivered promptly and accurately; templates successfully triggered.

6. Developer Console:

Component	Average CPU Time (ms)	SOQL Queries	Heap Size (KB)	Result
Tenant Trigger	120	8	350	Passed
Lease Trigger	140	10	420	Passed

Component	Average CPU Time (ms)	SOQL Queries	Heap Size (KB)	Result
Payment Class	115	6	310	Passed
Email Automation	100	5	290	Passed
Scheduled Apex	160	9	400	Passed

Developer Console - Google Chrome

orgfarm-8ec6be561d-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

test.apxt testHandler.apxc MonthlyEmailScheduler.apxc

Code Coverage: None API Version: 65 Go To

```

1 trigger test on Tenant__c (before insert)
2
3 {
4
5     if(trigger.isInsert && trigger.isBefore){
6
7         testHandler.preventInsert(trigger.new);
8
9     }
10
11 }

```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Sabna Asmi S	Unknown	ApexTestHandler	11/2/2025, 11:46:27 PM	Success	Unread	2.2 KB
Sabna Asmi S	Unknown	ApexTestHandler	11/2/2025, 11:46:27 PM	Success	Unread	517 bytes

Filter Click here to filter the log list

23:46 02-11-2025