

LEASE MANEGEMENT

College Name: K.G.College of Arts and Science

College Code: 641035

TEAM ID: NM2025TMID23769

TEAM MEMBERS: FOUR

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1. INTRODUCTION

1.1 Project Overview

The Lease Management System is a Salesforce-based application designed to streamline the processes associated with leasing real estate properties. It handles tenant management, lease contracts, payments, and communication with automation features such as flows, approval processes, and email alerts.



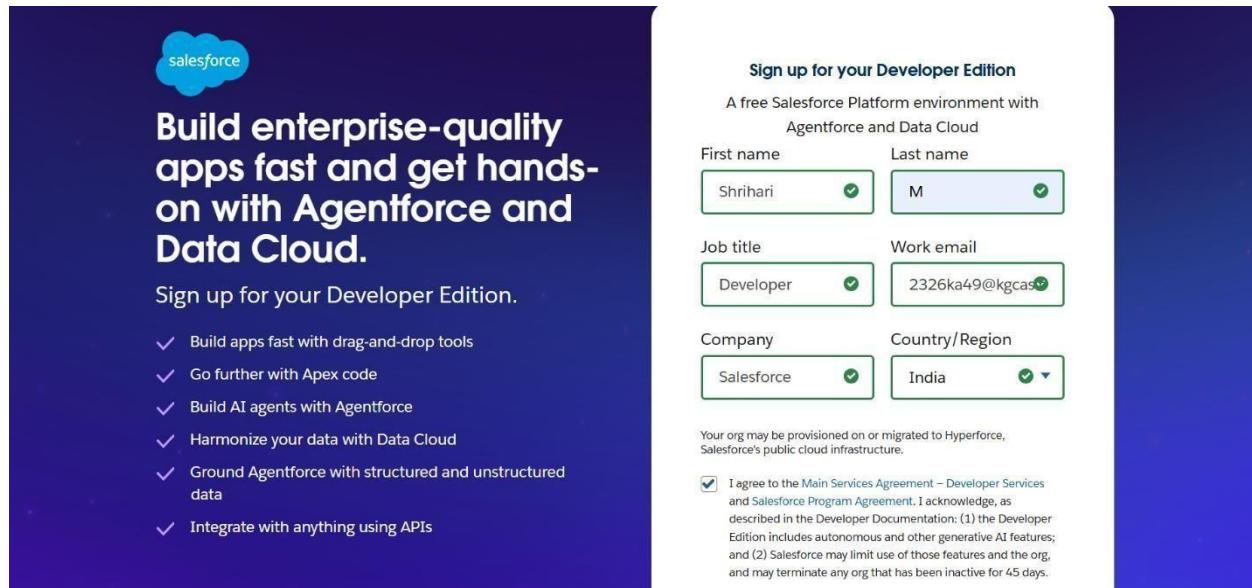
1.2 Purpose

The main objective of the project is to enable organizations to efficiently manage properties, tenants, and lease-related activities. It reduces manual intervention, improves accuracy, and ensures better compliance and communication.

DEVELOPMENT PHASE

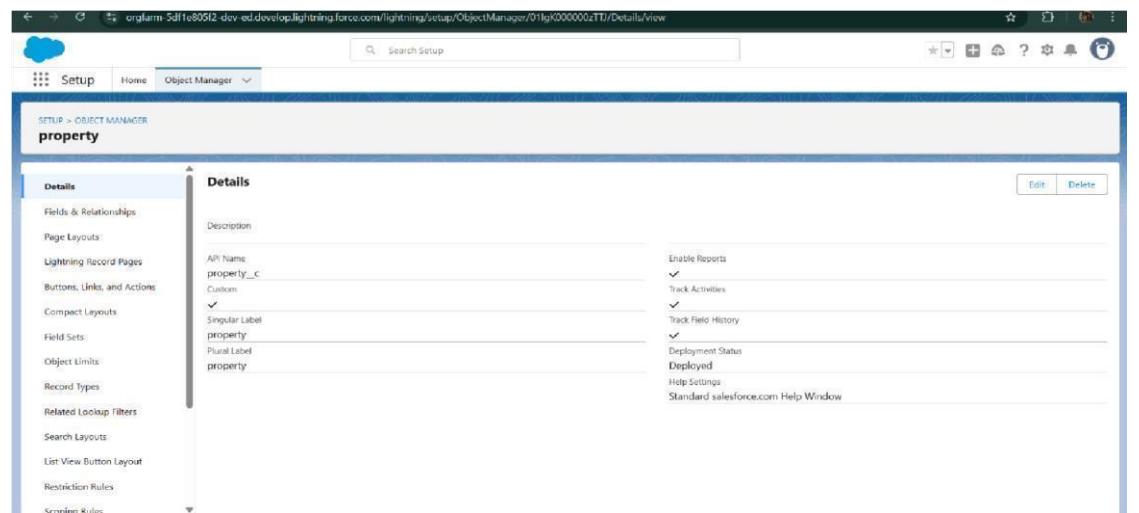
Creating Developer Account:

By using this URL - <https://www.salesforce.com/form/developer-signup/?d=pb>



The screenshot shows the 'Sign up for your Developer Edition' page. It features a dark blue header with the Salesforce logo and a central text block: 'Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud.' Below this is a 'Sign up for your Developer Edition.' button. To the right, there are two columns of input fields: 'First name' (Shrihari) and 'Last name' (M), both with green checkmarks; 'Job title' (Developer) and 'Work email' (2326ka49@kgcas.v); 'Company' (Salesforce) and 'Country/Region' (India). A note below states: 'Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.' At the bottom is a checkbox for agreeing to the Main Services Agreement and Program Agreement, followed by a note about AI features.

- Created objects: Property, Tenant, Lease, Payment



The screenshot shows the Salesforce Object Manager interface. A search bar at the top contains 'Search Setup'. Below it, a navigation bar includes 'Setup', 'Home', and 'Object Manager'. The main area displays the 'property' object details. On the left is a sidebar with tabs: 'Details', 'Fields & Relationships', 'Page Layouts', 'Lightning Record Pages', 'Buttons, Links, and Actions', 'Compact Layouts', 'Field Sets', 'Object Limits', 'Record Types', 'Related Lookup Filters', 'Search Layouts', 'List View Button Layout', 'Restriction Rules', and 'Scoring Rules'. The 'Details' tab is selected. The object's API name is listed as 'property__c'. The 'Description' field is empty. Under 'Custom', there are three checked checkboxes: 'Singular Label' (property), 'Plural Label' (property), and 'Record Type Label' (property). On the right, there are sections for 'Enable Reports' (checked), 'Track Activities' (checked), 'Track Field History' (checked), 'Deployment Status' (Deployed), and 'Help Settings' (Standard salesforce.com Help Window). At the bottom right are 'Edit' and 'Delete' buttons.

Setup | Home | Object Manager

SETUP > OBJECT MANAGER

Tenant

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Details

Description

API Name

Tenant_c

Custom

✓

Singular Label

Tenant

Plural Label

Tenants

Enable Reports

✓

Track Activities

✓

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit | Delete

Setup | Home | Object Manager

SETUP > OBJECT MANAGER

lease

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Details

Description

API Name

lease_c

Custom

✓

Singular Label

lease

Plural Label

lease

Enable Reports

✓

Track Activities

✓

Track Field History

✓

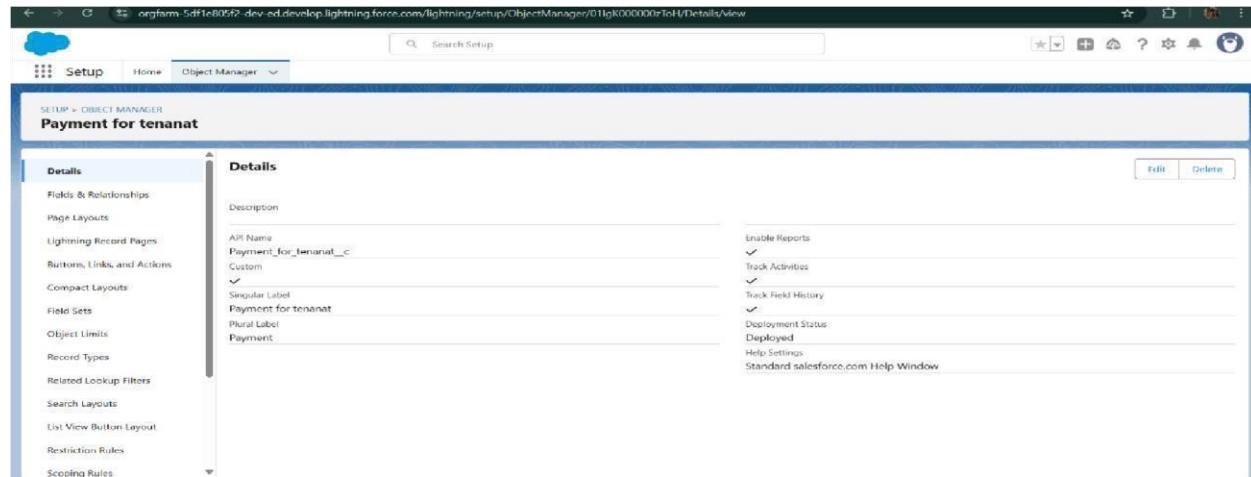
Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit | Delete



- Configured fields and relationships

Fields & Relationships				
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Text(25)		
Owner	OwnerId	Lookup(User,Group)		
property	property__c	Lookup(property)		
property Name	Name	Text(80)		
sfqt	sfqt__c	Text(18)		
Type	Type__c	Picklist		

Setup > Object Manager

Payment for tenantat

Fields & Relationships		Fields & Relationships				
		FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
		Amount	Amount_c	Number(18, 0)		
		check for payment	check_for_payment_c	Picklist		
		Created By	CreatedById	Lookup(User)		
		Last Modified By	LastModifiedById	Lookup(User)		
		Owner	OwnerId	Lookup(User,Group)		✓
		Payment date	Payment_date_c	Date		
		Payment Name	Name	Text(80)		✓

Setup > Object Manager

lease

Fields & Relationships		Fields & Relationships				
		FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
		Created By	CreatedById	Lookup(User)		
		End date	End_date_c	Date		
		Last Modified By	LastModifiedById	Lookup(User)		
		lease Name	Name	Text(80)		✓
		Owner	OwnerId	Lookup(User,Group)		✓
		property	property_c	Lookup(property)		✓
		start date	start_date_c	Date		

SETUP > OBJECT MANAGER

Tenant

Fields & Relationships

7 items. Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Email	Email_c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User.Group)		✓
Phone	Phone_c	Phone		
status	status_c	Picklist		
Tenant Name	Name	Text(80)		✓

- Developed Lightning App with relevant tabs

Lightning App Builder

App Settings

App Details & Branding

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

*App Name: Lease Management

*Developer Name: Lease_Management

Description: Application to efficiently handle the processes related to leasing real estate properties.

App Branding

Image:

Primary Color Hex Value: #0070D2

Org Theme Options: Use the app's image and color instead of the org's custom theme

App Launcher Preview

Lightning App Builder | App Settings | Pages | Lease Management | Help

App Settings

App Details & Branding
App Options
Utility Items (Desktop Only)

Navigation Items

User Profiles

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Type to filter list... Create ▾

- Accounts
- Activation Targets
- Activations
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests

Selected Items

Payment
Tenants
property
lease

Lightning App Builder | App Settings | Pages | Lease Management | Help

App Settings

App Details & Branding
App Options
Utility Items (Desktop Only)

User Profiles

User Profiles

Choose the user profiles that can access this app.

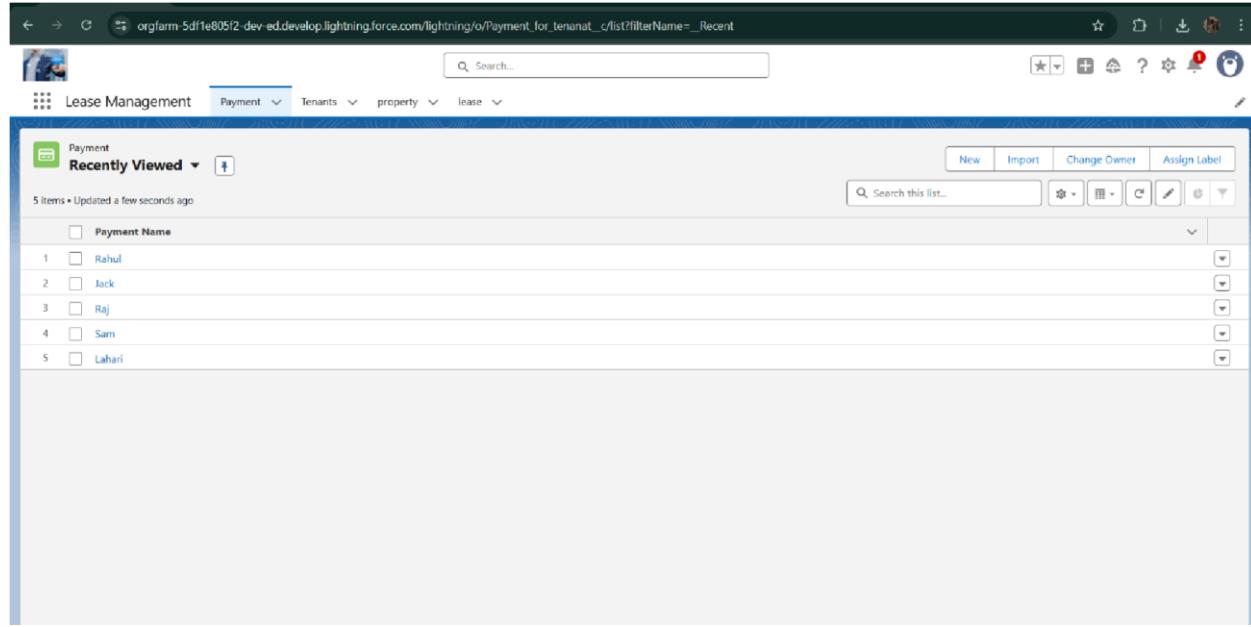
Available Profiles

Type to filter list...

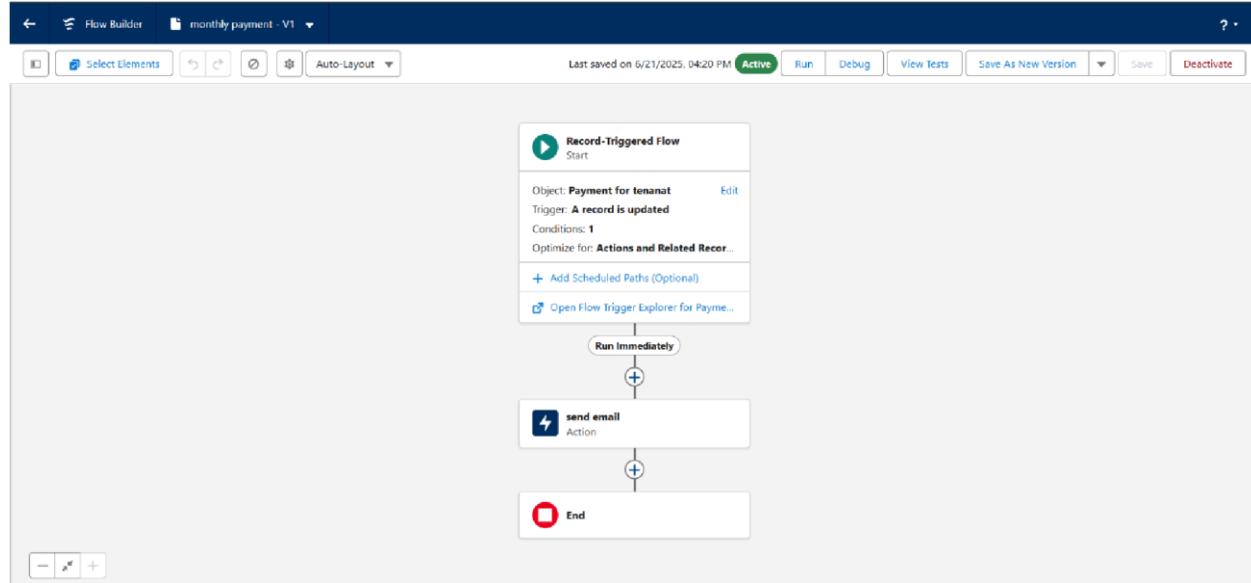
- Analytics Cloud Integration User
- Analytics Cloud Security User
- Anypoint Integration
- Authenticated Website
- Authenticated Website
- B2B Reordering Portal Buyer Profile
- Contract Manager
- Custom: Marketing Profile
- Custom: Sales Profile
- Custom: Support Profile
- Customer Community Login User

Selected Profiles

System Administrator



- Implemented Flows for monthly rent and payment success



- To create a validation rule to a Lease Object

Validation Rule Edit

Rule Name: lease_end_date

Active:

Description:

Error Condition Formula:

```
Example: Discount_Percent__c > 30 More Examples...
Display an error if Discount is more than 30%
If this formula expression is true, display the text defined in the Error Message area
```

Functions:

- All Function Categories -
- ABS
- ACOS
- ADDMONTHS
- AND
- ASCII
- ASIN

Check Syntax

Validation Rule Detail

Rule Name: lease_end_date

Error Condition Formula: End_date_c <= start_date_c

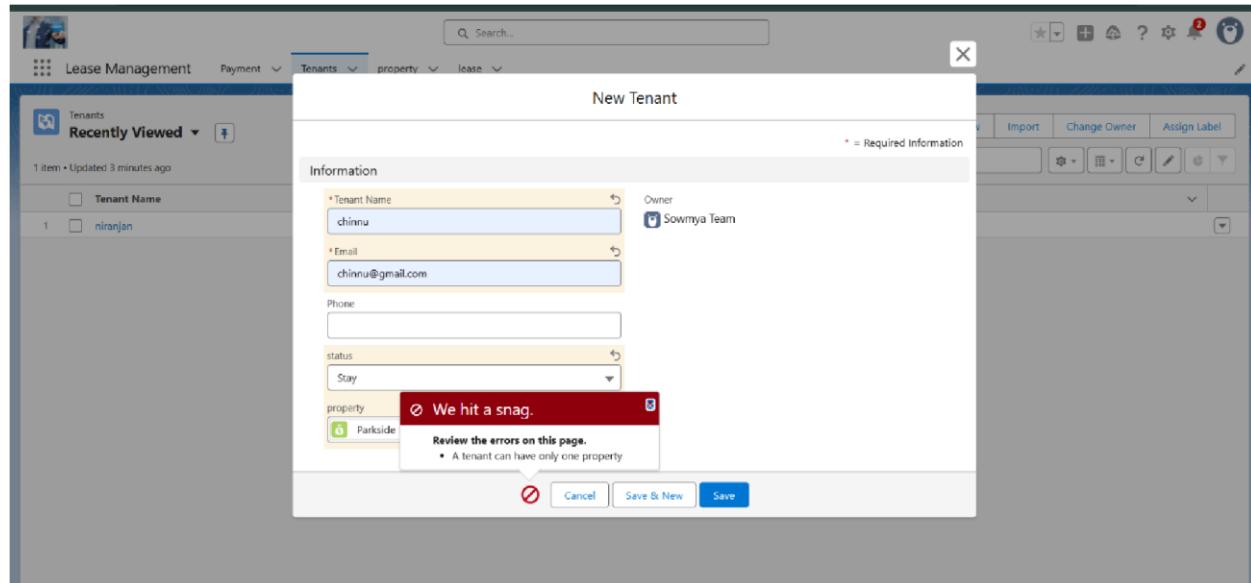
Error Message: Your End date must be greater than start date

Description:

Created By: Scwmya_Team, 6/19/2025, 5:37 AM

Modified By: Scwmya_Team, 6/26/2025, 7:47 AM

- Added Apex trigger to restrict multiple tenants per property



- Scheduled monthly reminder emails using Apex class

```

1 *global class MonthlyEmailScheduler implements Scheduleable {
2
3     global void execute(SchedulableContext sc) {
4
5         Integer currentDay = Date.today().day();
6
7         if (currentDay == 1) {
8
9             sendMonthlyEmails();
10
11         }
12     }
13
14
15     public static void sendMonthlyEmails() {
16
17         List<Tenant__c> tenants = [SELECT Id, Email__c FROM Tenant__c];
18
19         for (Tenant__c tenant : tenants) {
20
21             String recipientEmail = tenant.Email__c;
22
23             String emailContent = 'I trust this email finds you well. I am writing to remind you that the monthly rent is due. Your timely payment ensures the smooth functioning of our rental arrangement and helps maintain';
24
25             String emailSubject = 'Reminder: Monthly Rent Payment Due';
26
27             Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
28
29             email.setToAddresses(new String[]{recipientEmail});
30
31             email.setSubject(emailSubject);
32
33             email.setPlainTextBody(emailContent);
34
35     }

```

- Built and tested email templates for leave request, approval, rejection, payment, and reminders

The screenshot shows the Salesforce Setup interface with the search bar set to "email template". The main content area displays the "Classic Email Templates" page for the "Leave approved" template. The template details are as follows:

Email Template Detail	Available For Use
Email Template Name: Leave approved	✓
Template Unique Name: Leave_approved	Last Used Date
Encoding: Unicode (UTF-8)	Times Used
Author: Soumya_Team [Change]	
Description:	
Created By: Soumya_Team, 6/20/2025, 1:08 AM	Modified By: Soumya_Team, 6/20/2025, 1:08 AM

The "Email Template" section shows the subject "Leave approved" and the plain text preview:

```

Subject: Leave approved
Plain Text Preview:
dear{Tenant__c.Name}.

I hope this message finds you well. I am writing to inform you that I have received your email confirming the approval of my leave request. I would like to express my gratitude for considering and approving my time off.

Your leave is approved. You can leave now.

```

The screenshot shows the Salesforce Setup interface with the search bar set to "email template". The main content area displays the "Classic Email Templates" page for the "tenant leaving" template. The template details are as follows:

Email Template Detail	Available For Use
Email Template Name: tenant leaving	✓
Template Unique Name: tenant_leaving	Last Used Date
Encoding: Unicode (UTF-8)	Times Used
Author: Soumya_Team [Change]	
Description:	
Created By: Soumya_Team, 6/20/2025, 1:06 AM	Modified By: Soumya_Team, 6/20/2025, 1:06 AM

The "Email Template" section shows the subject "request for approve the leave" and the plain text preview:

```

Subject: request for approve the leave
Plain Text Preview:
Dear {Tenant__c.CreatedBy}.

Please approve my leave

```

Classic Email Templates

Leave rejected

Email Template Detail

Email Templates from Salesforce	Unified Public Classic Email Templates
Email Template Name	Leave rejected
Template Unique Name	Leave_rejected
Encoding	Unicode (UTF-8)
Author	Sowmya_Team [Change]
Description	Created By Sowmya_Team 6/20/2025, 1:11 AM
Created By	Sowmya_Team 6/20/2025, 1:11 AM
Modified By	Sowmya_Team 6/20/2025, 1:11 AM

Email Template

Subject: Leave rejected

Plain Text Preview:

Dear {Recipient__c.Name},

I hope this email finds you well. Your contract has not ended. So we can't approve your leave. Your leave has rejected.

Classic Email Templates

Tenant Email

Email Template Detail

Email Templates from Salesforce	Unified Public Classic Email Templates
Email Template Name	Tenant_Email
Template Unique Name	Tenant_Email
Encoding	Unicode (UTF-8)
Author	Sowmya_Team [Change]
Description	Created By Sowmya_Team 6/20/2025, 1:12 AM
Created By	Sowmya_Team 6/20/2025, 1:12 AM
Modified By	Sowmya_Team 6/20/2025, 1:12 AM

Email Template

Subject: Urgent: Monthly Rent Payment Reminder

Plain Text Preview:

Dear {Recipient__c.Name},

I trust this email finds you well. We appreciate your continued tenancy at our property and I hope you have been comfortable in your residence.

The screenshot shows the Salesforce Setup interface. In the left sidebar, under 'Email', the 'Classic Email Templates' tab is selected. A search bar at the top left shows 'email template'. The main content area displays a 'Text Email Template' named 'tenant payment'. The 'Email Template Detail' section shows the following information:

- Email Template Name: tenant payment
- Template Unique Name: tenant_payment
- Encoding: Unicode (UTF-8)
- Author: Swamy Team [Change]
- Description: Didn't find what you're looking for? Try using Global Search.
- Created By: Swamy Team, 6/20/2025, 1:13 AM
- Modified By: Swamy Team, 6/20/2025, 1:13 AM
- Status: Available For Use (checked)
- Last Used Date: (not specified)
- Times Used: (not specified)

The 'Email Template' section below shows the email content:

```

Subject: Confirmation of Successful Monthly Payment
Plain Text Preview
Dear {Tenant__c.Email__c}.

We hope this email finds you well. We are writing to inform you that we have successfully received your monthly payment. Thank you for your prompt and diligent payment.

```

- Approval Process creation

For Tenant Leaving:

The screenshot shows the Salesforce Setup interface. In the left sidebar, under 'Data', the 'Approval Processes' tab is selected. A search bar at the top left shows 'approval'. The main content area displays an 'Approval Processes' page for 'Tenant: TenantApproval'.

Process Definition Detail

Process Name	TenantApproval	Active	<input checked="" type="checkbox"/>
Unique Name	TenantApproval	Next Automated Approver Determined By	
Description			
Entry Criteria	tenant__c.status EQUALS Stay		
Record Editability	Administrator ONLY	Allow Submitters to Recall Approval Requests	<input type="checkbox"/>

Approval Assignment Email Template

Initial Submitters	Tenant Owner	Created By	Swamy Team, 6/23/2025, 3:41 AM	Modified By	Swamy Team, 6/26/2025, 11:57 PM
--------------------	--------------	------------	--------------------------------	-------------	---------------------------------

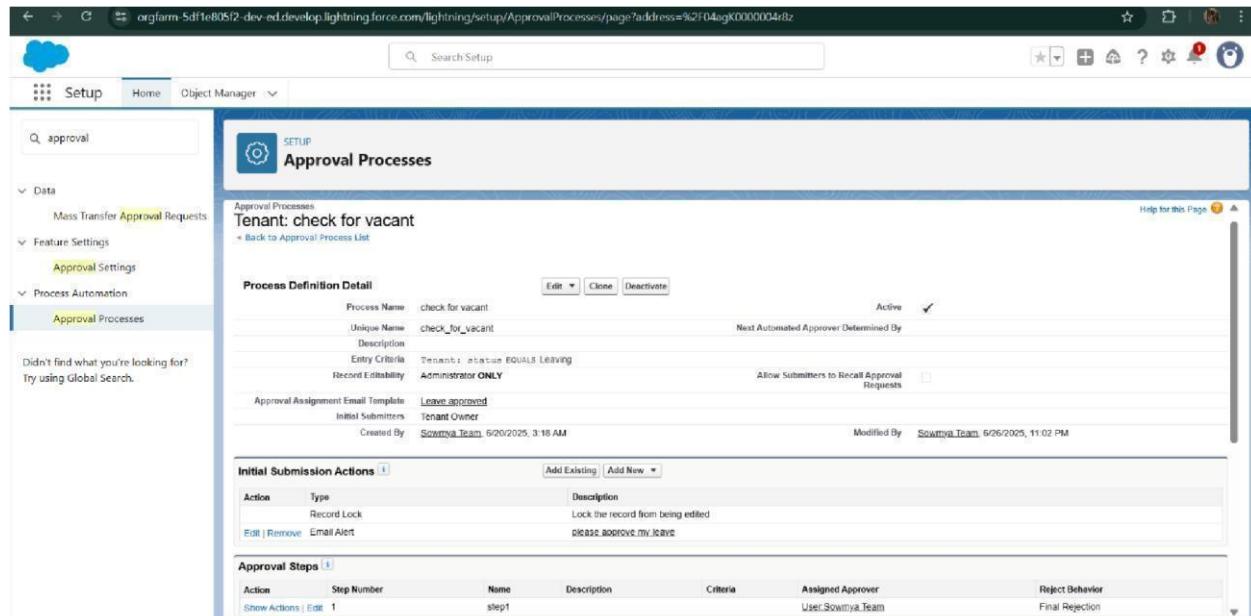
Initial Submission Actions

Action Type	Description
Record Lock	Lock the record from being edited

Approval Steps

Action	Step Number	Name	Description	Criteria	Assigned Approver	Reject Behavior
Show Actions	Edit	1	Step 1		User: Swamy Team	Final Rejection

For Check for Vacant:



- Apex Trigger

Create an Apex Trigger

```

trigger test on Tenant__c (before insert)
{
    if(trigger.isInsert && trigger.isBefore){
        testHandler.preventInsert(trigger.new);
    }
}

```

Open		
Entry Type	Edition	Related
Entity Type	Name	Namespace
Classes		Name
Triggers	test	Extent
Pages		Direction
Page Components		
Objects		
Static Resources		
Packages		

Developer Console - Google Chrome
orgfarm-5df1e605f2-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

testApex testHandler.apxc MonthlyEmailScheduler.apxc

Code Coverage: None API Version: 64 Go To

```
trigger test on Tenant__c (before insert)
{
    if(trigger.isInsert && trigger.isBefore){
        testHandler.preventInsert(trigger.new);
    }
}
```

Logs Tests Checkpoints Query Editor View State Progress Problems

Name Line Problem

Create an Apex Handler class

Developer Console - Google Chrome
orgfarm-5df1e605f2-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

testApex testHandler.apxc MonthlyEmailScheduler.apxc

Code Coverage: None API Version: 64 Go To

```
public class testHandler {
    public static void preventInsert(List<Tenant__c> newList) {
        Set<Id> existingPropertyIds = new Set<Id>();
        for (Tenant__c existingTenant : [SELECT Id, Property__c FROM Tenant__c WHERE Property__c != null]) {
            existingPropertyIds.add(existingTenant.Id);
        }
        for (Tenant__c newTenant : newList) {
            if (newTenant.Property__c != null) {
                newTenantaddError('A');
            }
        }
    }
}
```

Entity Type Entity Name Namespace Related

Entity Type	Entity Name	Namespace	Related
Classes	testHandler	MonthlyEmailScheduler	↳ test ApexTrigger Referenced
Triggers			↳ property CustomField References
Pages			↳ Tenant__c SObject References
Page Components			↳ Tenant__c SObject References
Objects			
Static Resources			
Packages			

Open Filter Hide Managed Packages Refresh

Logs Tests Checkpoints Query Editor View State Progress Problems

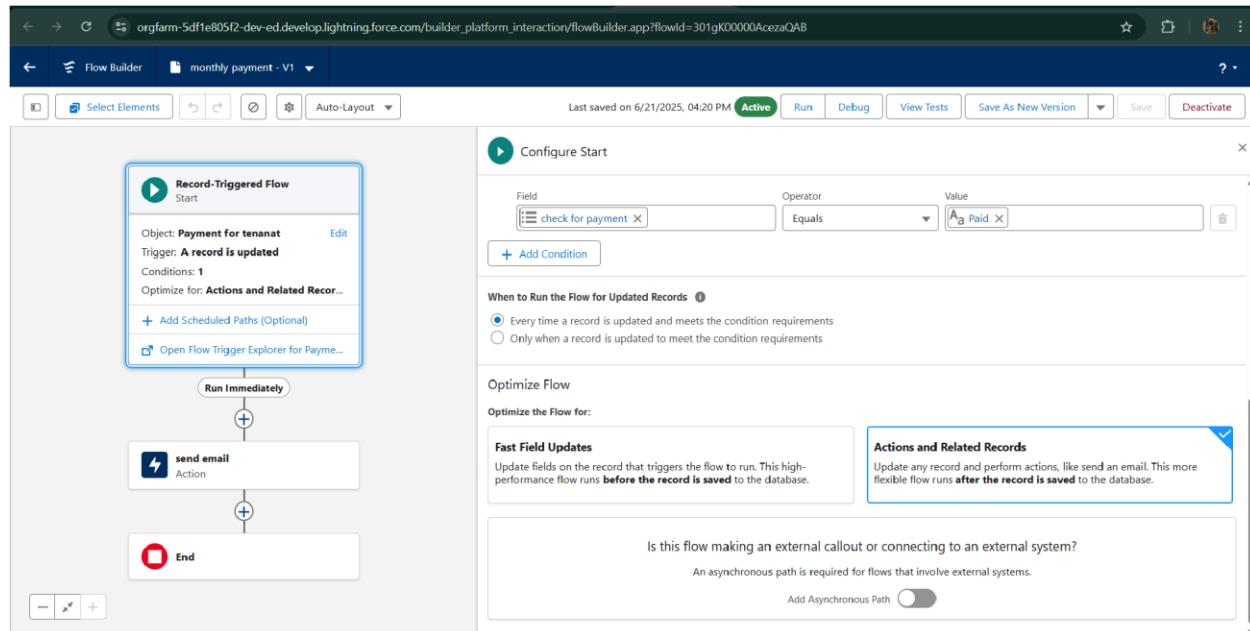
Name Line Problem

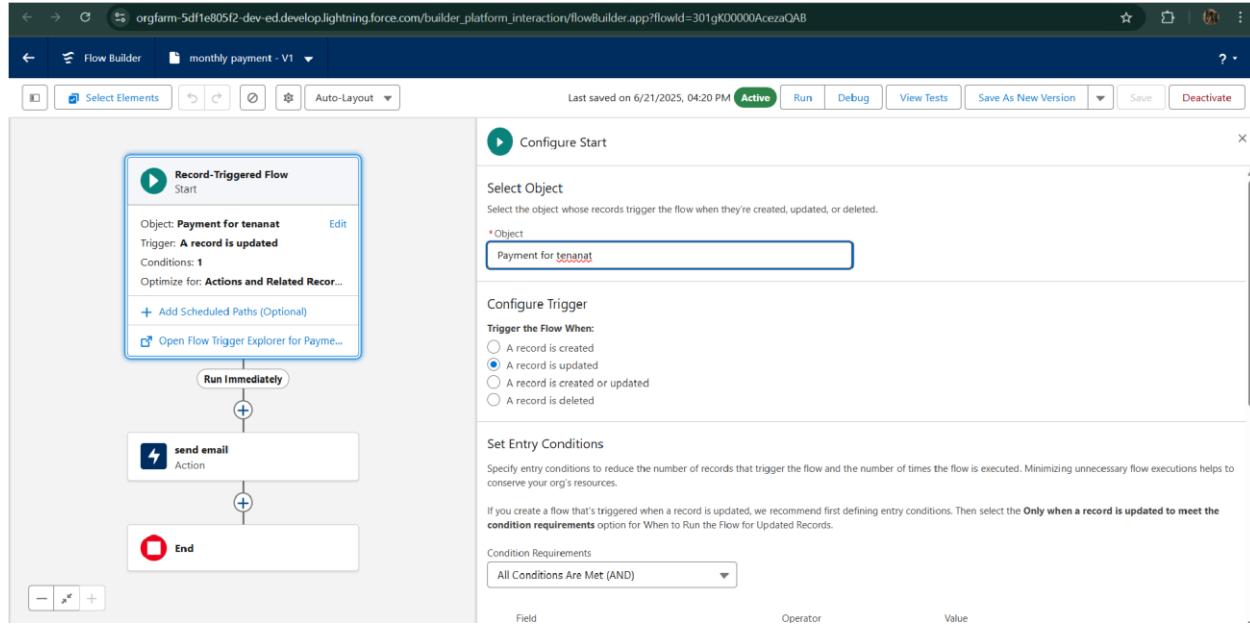
```

1 * public class testHandler {
2
3     public static void preventInsert(List<Tenant__c> newList) {
4
5         Set<Id> existingPropertyIds = new Set<Id>();
6
7         for (Tenant__c existingTenant : [SELECT Id, Property__c FROM Tenant__c WHERE Property__c != null]) {
8
9             existingPropertyIds.add(existingTenant.Property__c);
10
11         }
12
13
14         for (Tenant__c newTenant : newList) {
15
16
17             if (newTenant.Property__c != null && existingPropertyIds.contains(newTenant.Property__c)) {
18
19                 newTenantaddError('A tenant can have only one property');
20
21             }
22
23         }
24
25     }
26
27 }

```

● FLOWS





- Schedule class: Create an Apex Class

```

1 * global class MonthlyEmailScheduler implements Schedulable {
2
3     global void execute(SchedulableContext sc) {
4
5         Integer currentDay = Date.today().day();
6
7         if (currentDay == 1) {
8
9             sendMonthlyEmails();
10
11        }
12
13    }
14
15
16    public static void sendMonthlyEmail17
17
18        List<Tenant__c> tenants = [SEL19
19
20            for (Tenant__c tenant : tenants21
21
22                String recipientEmail = tenant.Email__c;
23
}

```

testHandler.apxc

Entity Type	Name	Namespace	Related
Classes	testHandler		Email ← Tenant__c SObject ← Tenant__c SObject
Triggers	MonthlyEmailScheduler		CronTrigger CustomField... References
Pages			
Page Components			
Objects			
Static Resources			
Packages			

```

global class MonthlyEmailScheduler implements Schedulable {
    global void execute(SchedulableContext sc) {
        Integer currentDay = Date.today().day();
        if (currentDay == 1) {
            sendMonthlyEmails();
        }
    }
}

public static void sendMonthlyEmails() {
    List<Tenant__c> tenants = [SELECT Id, Email__c FROM Tenant__c];
    for (Tenant__c tenant : tenants) {
        String recipientEmail = tenant.Email__c;
        String emailContent = 'I trust this small finds you well. I am writing to remind you that the monthly rent is due. Your timely payment ensures the smooth functioning of our rental arrangement and helps maintain a positive living environment for all.';
        String emailSubject = 'Monthly Rent Payment Due';
        Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
        email.setToRecipients(new String[] {recipientEmail});
        email.setSubject(emailSubject);
        email.setPlainTextBody(emailContent);
        messaging.sendEmail(new Messaging.SingleEmailMessage[] {email});
    }
}

```

Schedule Apex class

The screenshot shows the Salesforce Setup Apex Classes page. The sidebar on the left has a search bar with 'apex' typed in. Under the 'Apex Classes' section, 'MonthlyEmailScheduler' is selected. The main area displays the Apex Class Detail for 'MonthlyEmailScheduler'. The class is active and was created by 'Sowmya Team' on 6/23/2025 at 2:46 AM. The code editor shows the same Apex code as in the developer console.

Name	Namespace Prefix	Status	Code Coverage
MonthlyEmailScheduler		Active	0% (0/15)
Created By	Sowmya Team	Last Modified By	Sowmya Team
			6/23/2025, 2:47 AM

```

global class MonthlyEmailScheduler implements Schedulable {
    global void execute(SchedulableContext sc) {
        Integer currentDay = Date.today().day();
        if (currentDay == 1) {
            sendMonthlyEmails();
        }
    }
}

public static void sendMonthlyEmails() {
    List<Tenant__c> tenants = [SELECT Id, Email__c FROM Tenant__c];
    for (Tenant__c tenant : tenants) {

```

Lease Management Payment Tenants property lease

Tenant Aswini

Related Details * = Required Information

* Tenant Name: Aswini Owner: Sowmya Team

* Email: aswiniamaraadi15@gmail.com

Phone: (905) 223-5567

Status: Leaving

Property: Imran

Created By: Sowmya Team, 6/26/2025, 6:05 AM Last Modified By: Sowmya Team, 6/26/2025, 11:06 PM

New Contact Edit New Opportunity

Activity

Upcoming & Overdue

No activities to show. Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

Lease Management Payment Tenants property lease

Tenant Aswini

Related Details * = Required Information

* Tenant Name: Aswini Owner: Sowmya Team

* Email: aswiniamaraadi15@gmail.com

Phone: (905) 223-5567

Status: Leaving

Property: Imran

Created By: Sowmya Team, 6/26/2025, 6:05 AM Last Modified By: Sowmya Team, 6/26/2025, 11:06 PM

Cancel Save

✓ Tenant was submitted for approval.

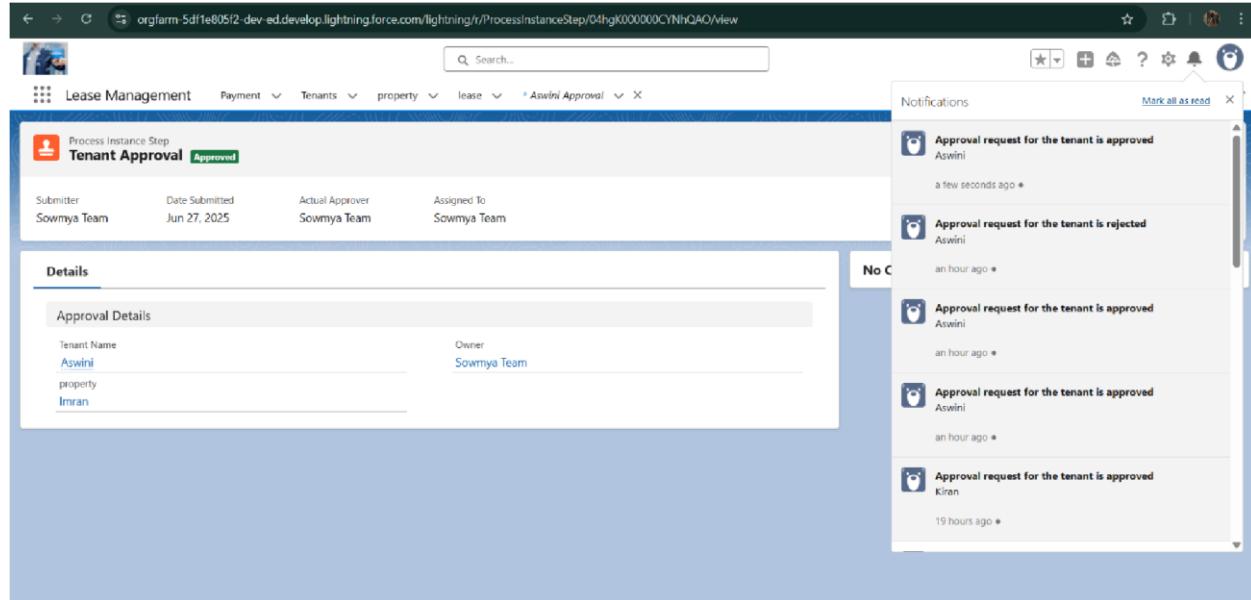
New Contact Edit New Opportunity

Activity

Upcoming & Overdue

No activities to show. Get started by sending an email, scheduling a task, and more.

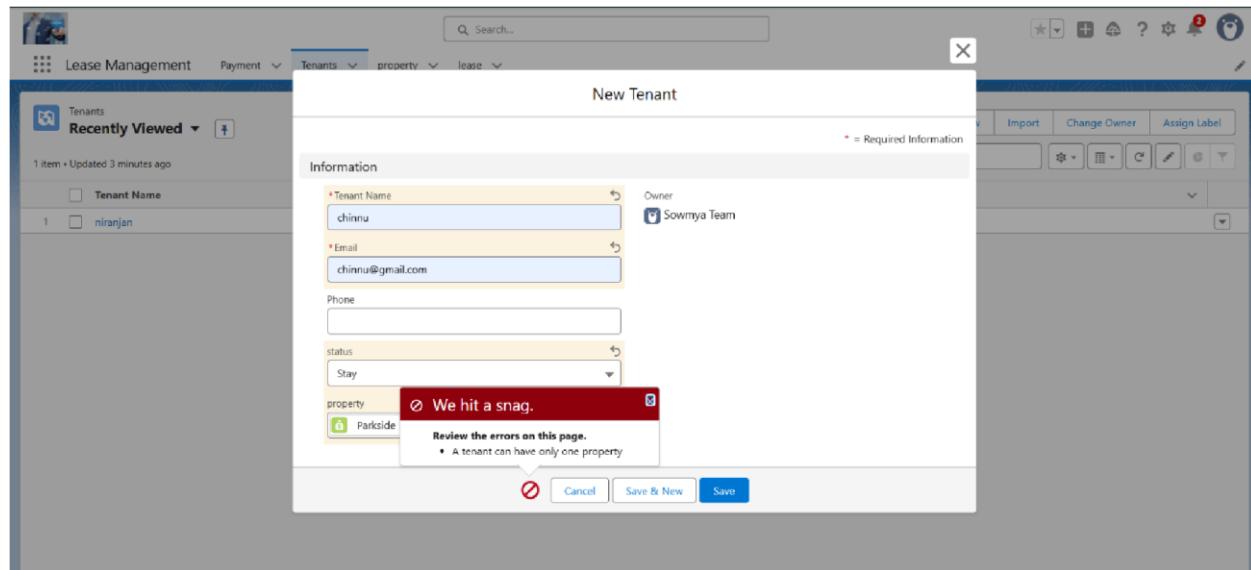
No past activity. Past meetings and tasks marked as done show up here.



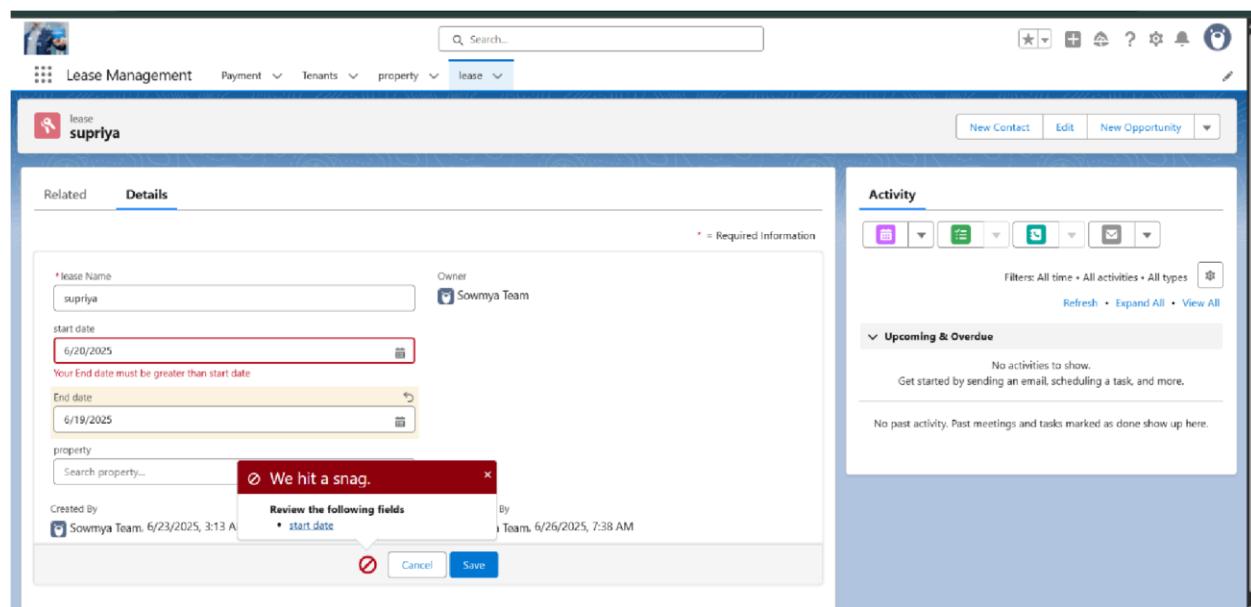
FUNCTIONAL AND PERFORMANCE TESTING

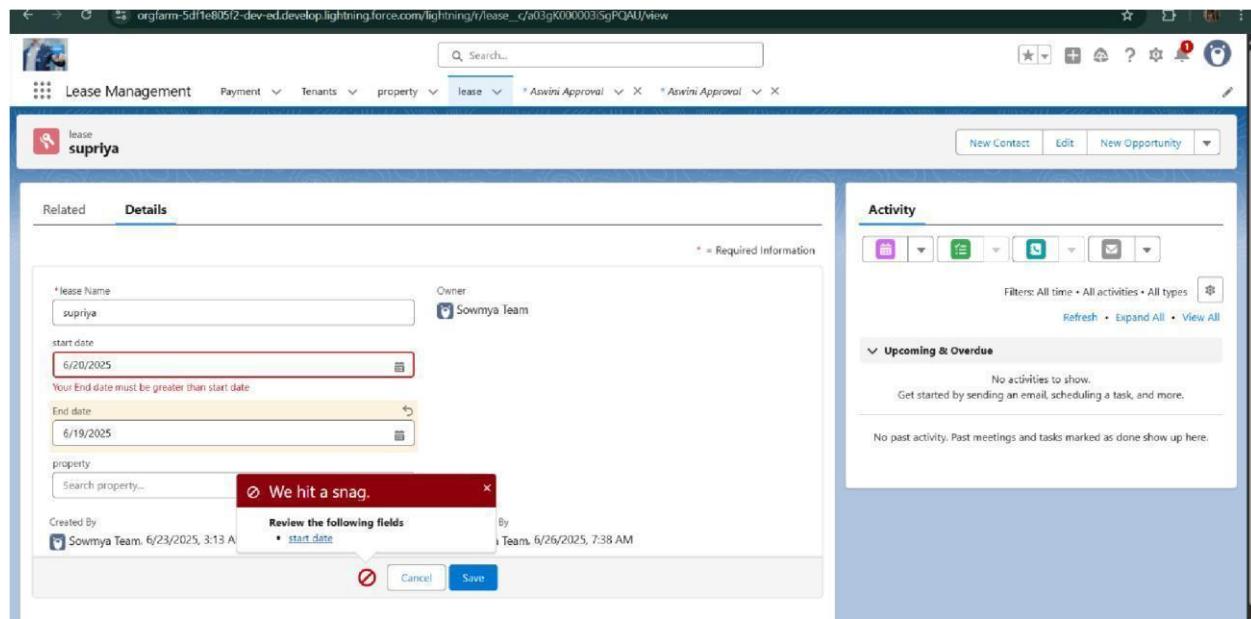
Performance Testing

- Trigger validation by entering duplicate tenant-property records

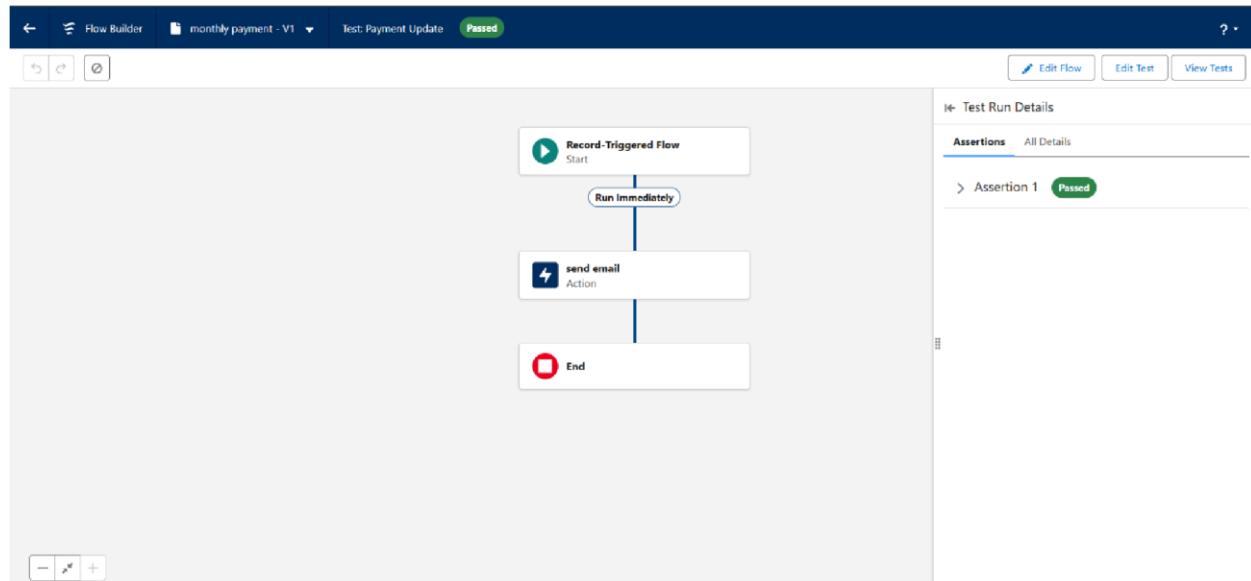


- Validation Rule checking





- Test flows on payment update



- Approval process validated through email alerts and status updates

Tenant **niranjan**

Related **Details**

* = Required Information

Tenant Name	niranjan	Owner	Sowmya Team
Email	niranjan1506@gmail.com		
Phone			
Status	Stay	Last Modified By	Sowmya Team, 6/23/2025, 3:58 AM
Property	Parkside Lofts	Created By	Sowmya Team, 6/23/2025, 2:33 AM
<input type="button" value="Cancel"/> <input type="button" value="Save"/>			

Notifications

- Approval request for the tenant is approved niranjan a few seconds ago
- Approval request for the tenant is rejected niranjan Jun 23, 2025, 4:29 PM
- Approval request for the tenant is approved niranjan Jun 23, 2025, 4:29 PM
- Approval request for the tenant is approved niranjan Jun 23, 2025, 4:14 PM
- New Guidance Center learning resource available Define Your Sales Process Learn how to guide reps through the sales process. Jun 20, 2025, 1:28 PM

Tenant **niranjan**

Approval History (6+)

Step Name	Date	Status	Assigned To
Step 1	6/25/2025, 5:39 AM	Approved	Sowmya Team
Approval Request Submitted	6/25/2025, 5:39 AM	Submitted	Sowmya Team
Step 1	6/23/2025, 3:59 AM	Rejected	Sowmya Team
Approval Request Submitted	6/23/2025, 3:58 AM	Submitted	Sowmya Team
Step 1	6/23/2025, 3:55 AM	Approved	Sowmya Team
Approval Request Submitted	6/23/2025, 3:55 AM	Submitted	Sowmya Team

Payment (2)

Payment Name		
Jack		
Rahul		

Activity

No past activity. Past meetings and tasks marked as done show up here.

Buttons: New Contact, Edit, New Opportunity

RESULTS

Output Screenshots

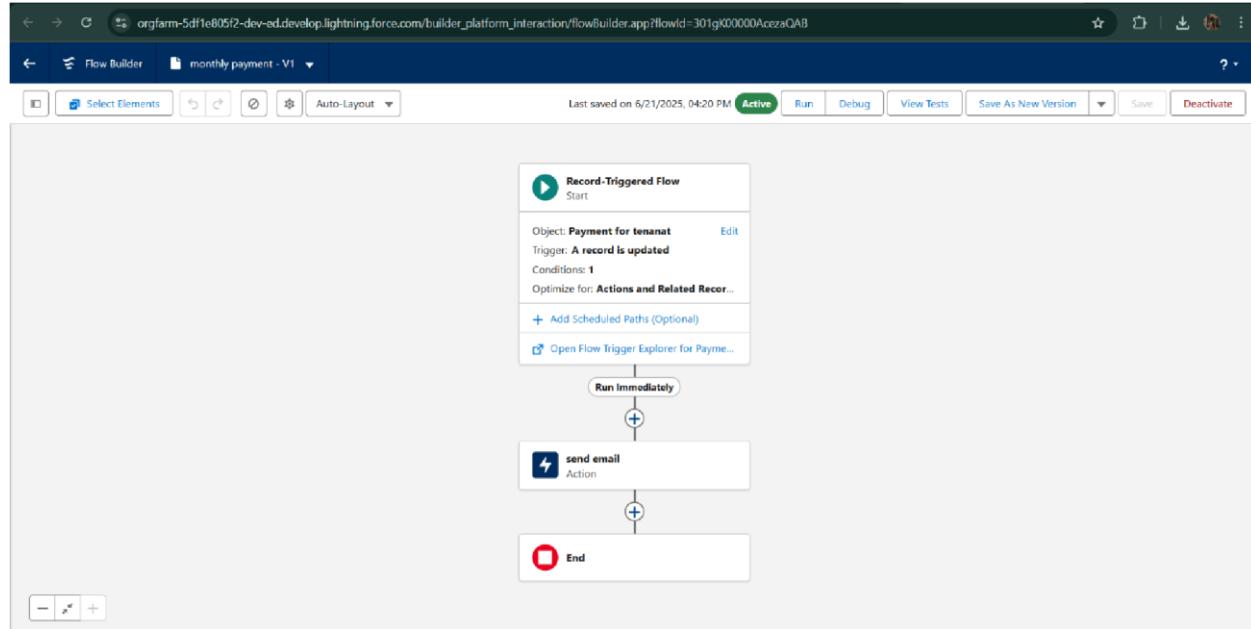
- Tabs for Property, Tenant, Lease, Payment

The screenshot shows the Salesforce Setup interface under the 'Tabs' tab. The 'Custom Tabs' section is displayed, which allows users to create new custom tabs to extend Salesforce functionality or build new application functionality. It includes sections for 'Custom Object Tabs', 'Web Tabs', and 'Visualforce Tabs'. The 'Custom Object Tabs' section lists four tabs: 'Lease' (Key icon), 'Payment' (Credit card icon), 'Property' (Sack icon), and 'Tenant' (Map icon). Each tab entry includes an 'Edit | Del' link and a 'Tab Style' dropdown.

- Email alerts

The screenshot shows the Salesforce Lease Management page. In the top navigation bar, the 'Tenants' tab is selected. Below the navigation bar, the 'Approval History' section is visible, displaying a table of approval steps. The table has columns for Step Name, Date, Status, Assigned To, Actual Approver, and Comments. The data in the table is as follows:

Step Name	Date	Status	Assigned To	Actual Approver	Comments
1 Step 1	6/25/2025, 5:39 AM	Approved	Sowmya Team	Sowmya Team	approved
2 Approval Request Submitted	6/25/2025, 5:39 AM	Submitted	Sowmya Team	Sowmya Team	leaving
3 Step 1	6/23/2025, 3:59 AM	Rejected	Sowmya Team	Sowmya Team	Rejected
4 Approval Request Submitted	6/23/2025, 3:58 AM	Submitted	Sowmya Team	Sowmya Team	Leaving
5 Step 1	6/23/2025, 3:55 AM	Approved	Sowmya Team	Sowmya Team	Approved
6 Approval Request Submitted	6/23/2025, 3:55 AM	Submitted	Sowmya Team	Sowmya Team	leaving
7 Step 1	6/23/2025, 3:44 AM	Approved	Sowmya Team	Sowmya Team	Approval Approved
8 Approval Request Submitted	6/23/2025, 3:42 AM	Submitted	Sowmya Team	Sowmya Team	Leaving

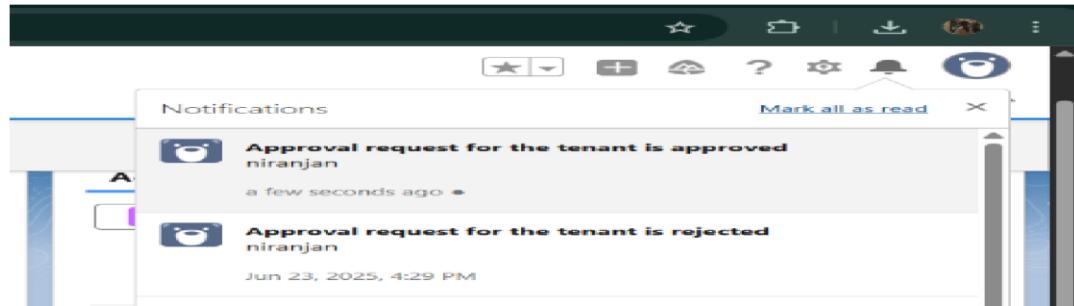


- Trigger error messages

The screenshot shows the Lease Management application with the following details:

- Module:** Lease Management
- Page:** New Tenant
- Fields:**
 - Tenant Name: chinu
 - Email: chinu@gmail.com
 - Owner: Sowmya Team
 - Phone: (empty)
 - Status: Stay
 - Property: Parkside
- Error Message:**
 - We hit a snag.
 - A tenant can have only one property.
- Buttons:** Cancel, Save & New, Save

- Approval process notifications



ADVANTAGES & DISADVANTAGES

Advantages

1. Centralized Information Management

- All lease agreements, documents, and related data are stored in one place.
- Reduces reliance on paper records or scattered spreadsheets.

2. Time and Cost Efficiency

- Automates repetitive tasks such as payment reminders, rent calculations, or generating reports. Reduces administrative overhead.

Disadvantages

1. High Initial Investment □

- Development or licensing costs for software can be significant.
- Training staff and migrating legacy data add to the initial expense.

2. Complex Implementation □

- Complex lease terms and regional compliance laws may require customization.
- Integration with other systems (e.g., accounting, CRM, ERP) can be challenging.

CONCLUSION

The Lease Management System successfully streamlines the operations of leasing through a structured, automated Salesforce application. It improves efficiency, communication, and data accuracy for both admins and tenants.

APPENDIX

- **Source Code:** Provided in Apex Classes and Triggers

Test.apxt: trigger test on Tenant__c (before insert) { if

```
(trigger.isInsert && trigger.isBefore){ testHandler.preventInsert(trigger.new);
}
}
```

testHandler.apxc:

```
public class
testHandler { public
static void
preventInsert(List<
Tenant__c> newList) {
    Set<Id>
existingPropertyIds
= new Set<Id>()

    for (Tenant__c existingTenant : [SELECT Id, Property__c FROM Tenant__c
WHERE Property__c != null]) { existingPropertyIds.add(existingTenant.Property__c;

    } for (Tenant__c newTenant :
newList) {

        if (newTenant.Property__c != null &&
existingPropertyIds.contains(newTenant.Property__c)) { newTenant.addError('A
tenant can have only one property');

        }

    }
}

}
```

MothlyEmailScheduler.apxc:

```

global class MonthlyEmailScheduler implements Schedulable {
    global void
        execute(SchedulableContext sc) {
            Integer currentDay =
                Date.today().day();
            if (currentDay == 1) {
                sendMonthlyEmails();
            }
        }
    public static void sendMonthlyEmails()
    {
        List<Tenant__c> tenants
        = [SELECT Id, Email__c FROM Tenant__c];
        for (Tenant__c tenant :
            tenants) {
            String recipientEmail = tenant.Email__c;
            String emailContent = 'I trust this email finds you well. I am writing to remind you that the monthly rent is due. Your timely payment ensures the smooth functioning of our rental arrangement and helps maintain a positive living environment for all.';
            String emailSubject = 'Reminder: Monthly Rent Payment Due';
            Messaging.SingleEmailMessage email = new
                Messaging.SingleEmailMessage();
            email.setToAddresses(new
                String[]{recipientEmail});
            email.setSubject(emailSubject);
            email.setPlainTextBody(emailContent);
            Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});
        }
    }
}

```