# LEASE MANAGEMENT

College Name: KG college of arts and science

TEAM ID: NM2025TMID23722

TEAM MEMBERS:

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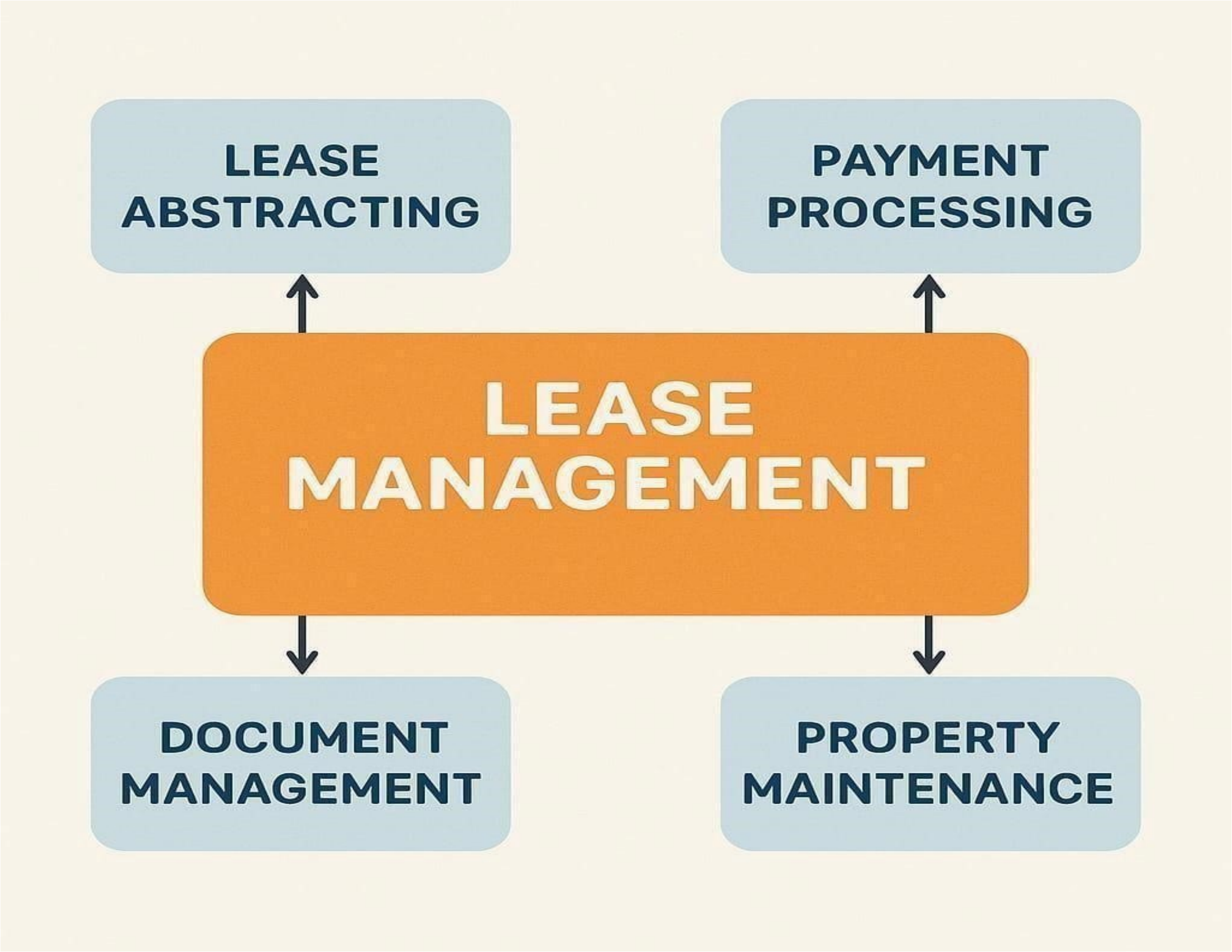
Team Member: DIVYASREE M

Email: 2326ka12@kgcas.com

# 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.



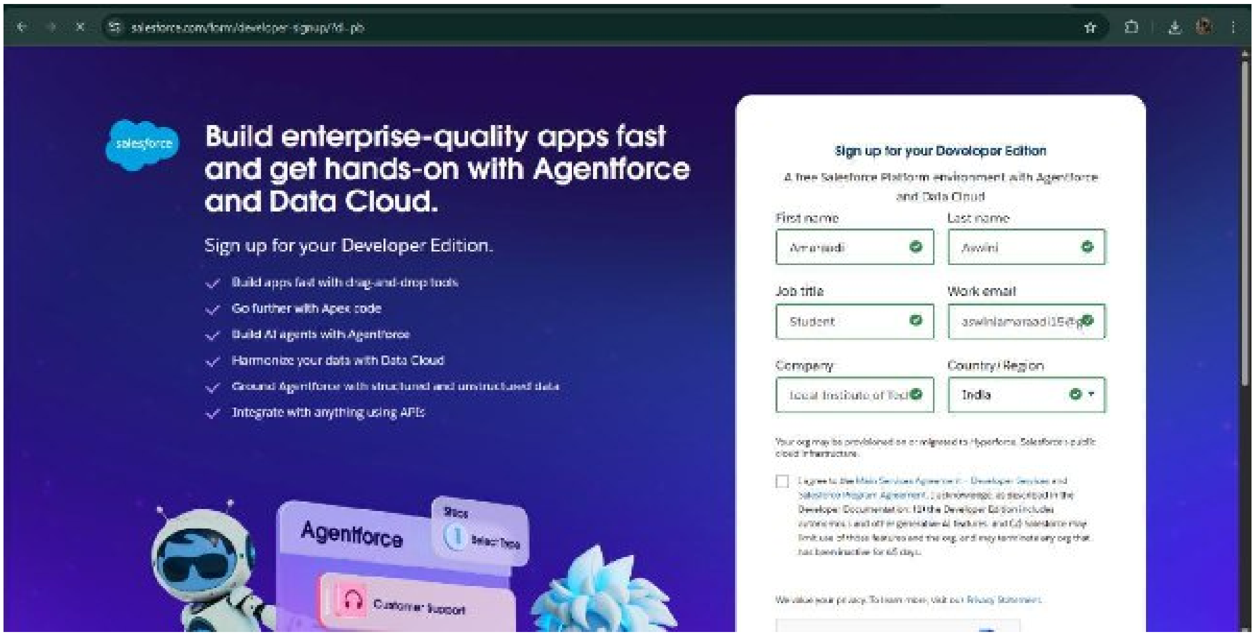
## 1.2 Purpose

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](https://www.salesforce.com/form/developer-signup/?d=pb)



salesforce.com/form/developer-signup/?d=pb

Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud.

Sign up for your Developer Edition.

- ✓ Build apps fast with drag-and-drop tools
- ✓ Go further with Apex code
- ✓ Build AI agents with Agentforce
- ✓ Harmonize your data with Data Cloud
- ✓ Ground Agentforce with structured and unstructured data
- ✓ Integrate with anything using APIs

Sign up for your Developer Edition

A free Salesforce Platform environment with Agentforce and Data Cloud

First name: Amaraadi

Last name: Aswini

Job title: Student

Work email: aswiniamaraadi15@p

Company: Ideal Institute of Tec

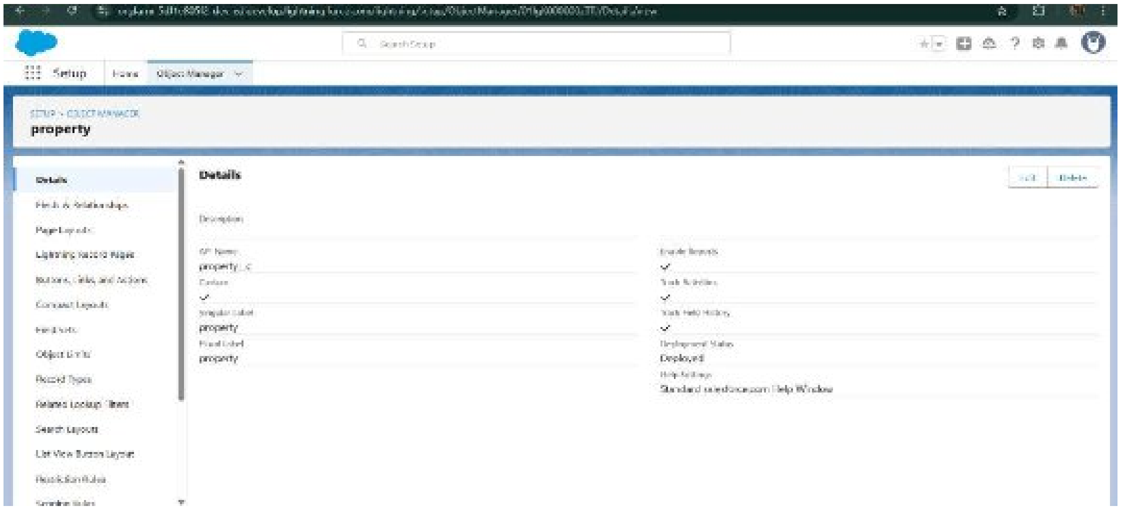
Country/Region: India

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.

□ I agree to the Main Services Agreement – Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features, and (2) Salesforce may limit use of those features and the org, and may terminate any org that has been inactive for 45 days.

We value your privacy. To learn more, visit our Privacy Statement.

Created objects: Property, Tenant, Lease, Payment



property

Details

Description

API Name
property__c

Custom
✓

Singular Label
property

Plural Label
property

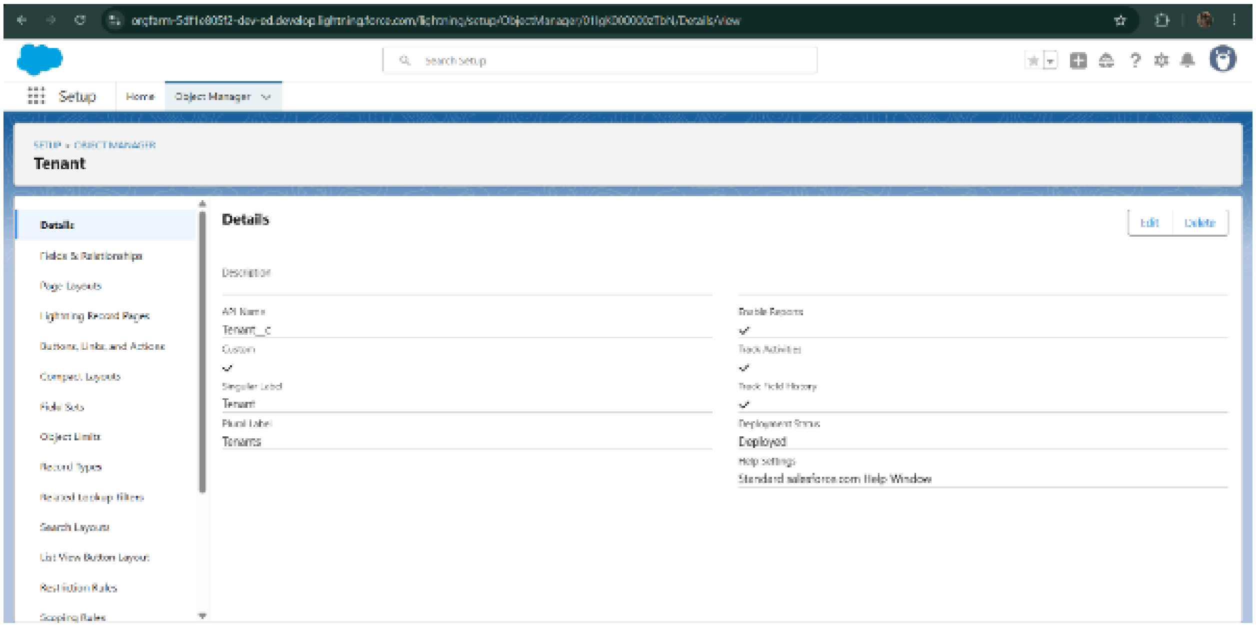
Enable Reports
✓

Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window



Tenant

Details

Description

API Name
Tenant__c

Custom
✓

Singular Label
Tenant

Plural Label
Tenants

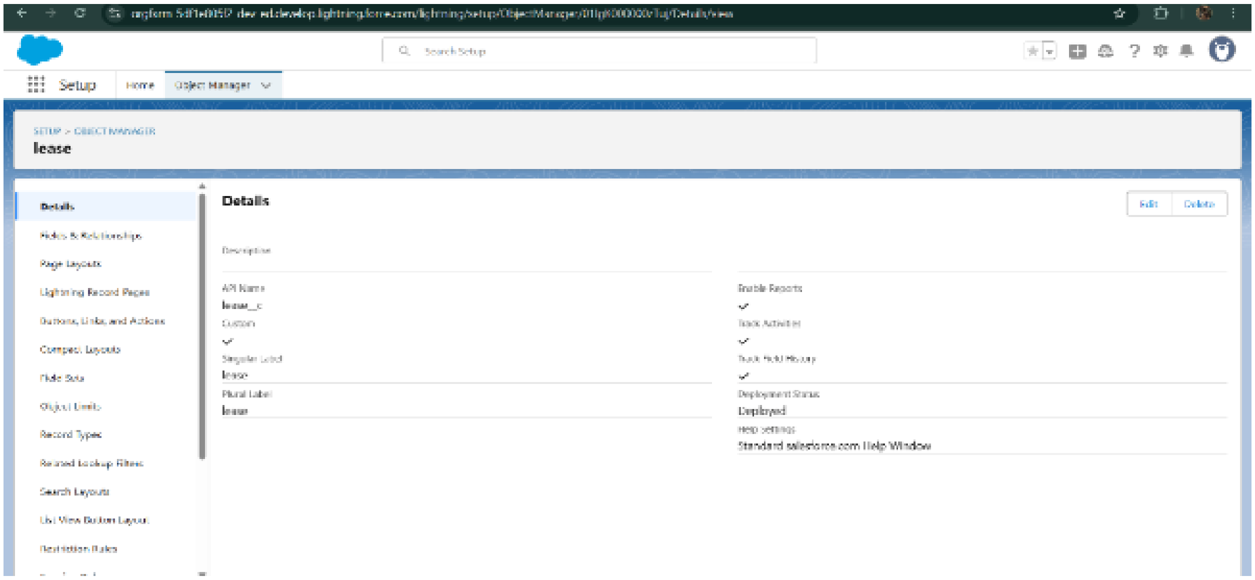
Enable Reports
✓

Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window



lease

Details

Description

API Name
lease__c

Custom
✓

Singular Label
lease

Plural Label
lease

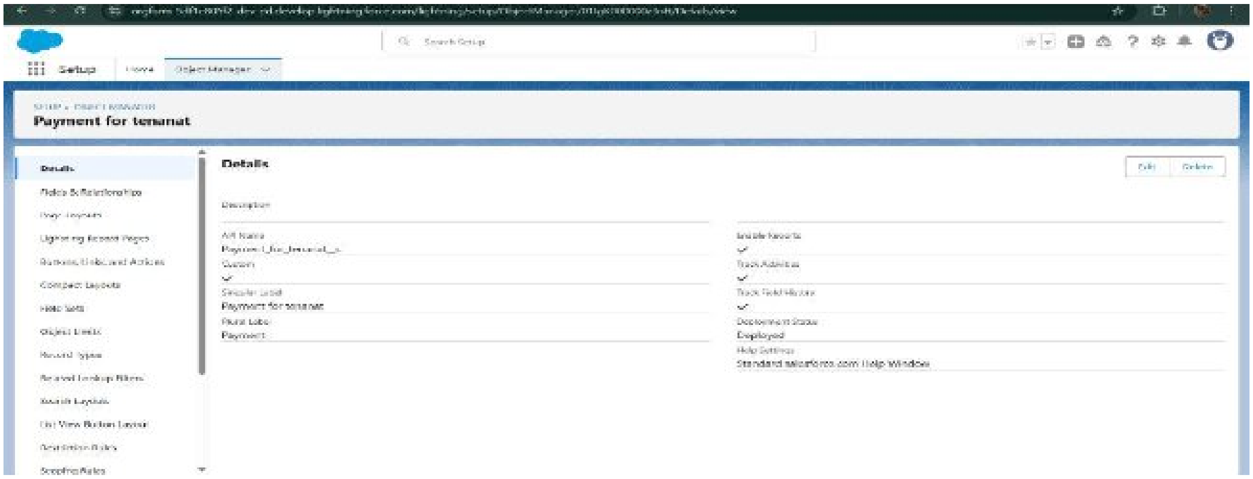
Enable Reports
✓

Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window



Payment for tenanat

Details

Description

API Name
Payment_for_tenanat__c

Custom
✓

Singular Label
Payment for tenanat

Plural Label
Payment

Enable Reports
✓

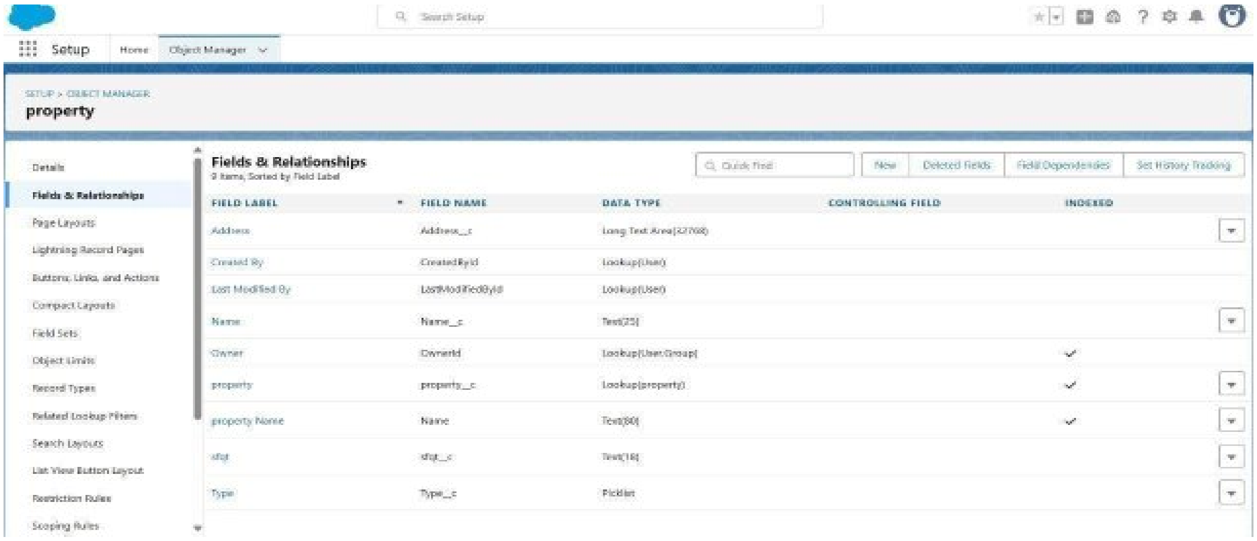
Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Configured fields and relationships



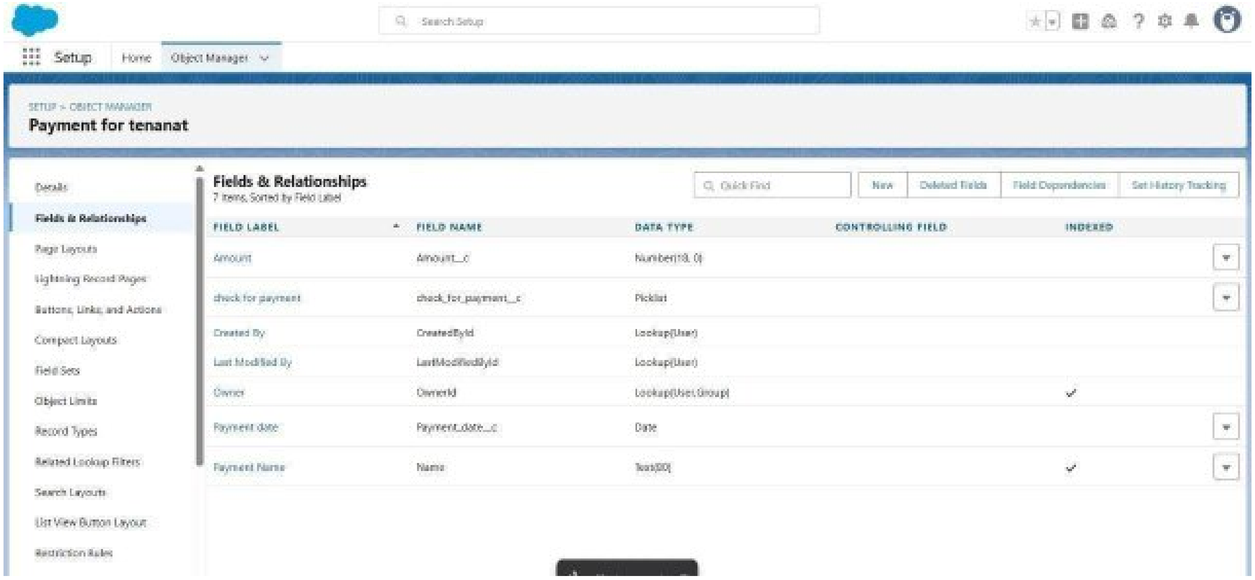
SETUP > OBJECT MANAGER

property

Fields & Relationships

9 Items, Sorted by Field Label

| 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 | | |



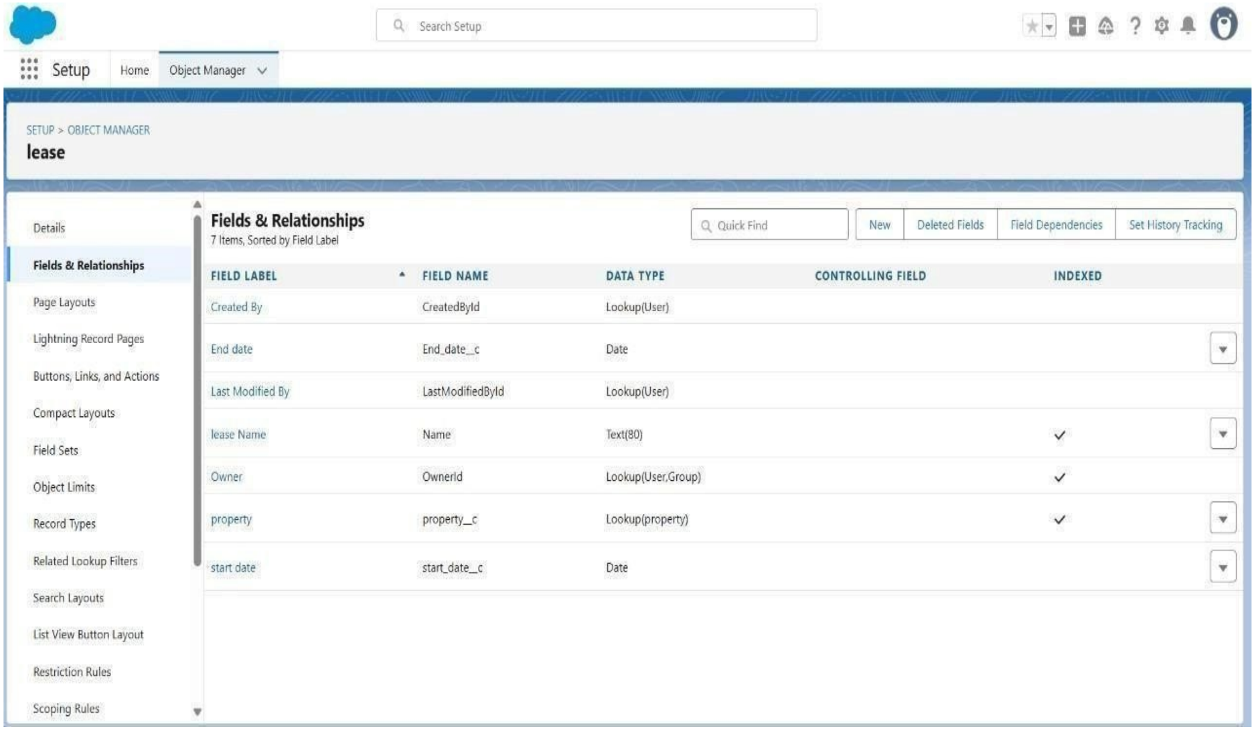
SETUP > OBJECT MANAGER

Payment for tenanat

Fields & Relationships

7 Items, Sorted by Field Label

| 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) | | ✓ |

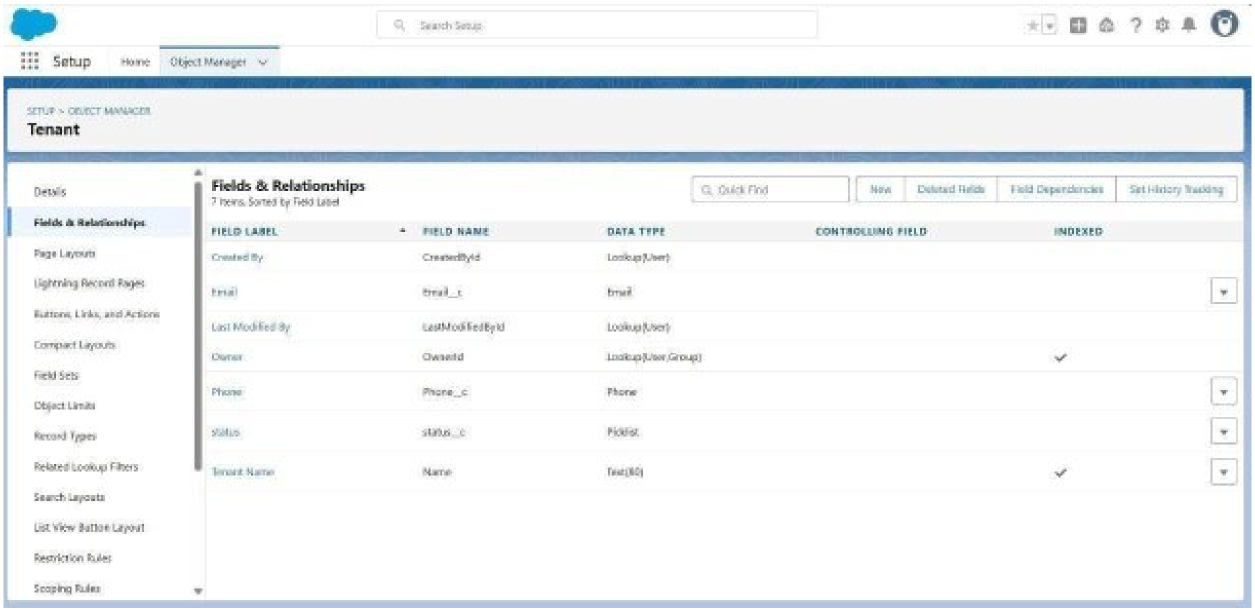


lease

Fields & Relationships

7 Items, Sorted by Field Label

| 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 | | |



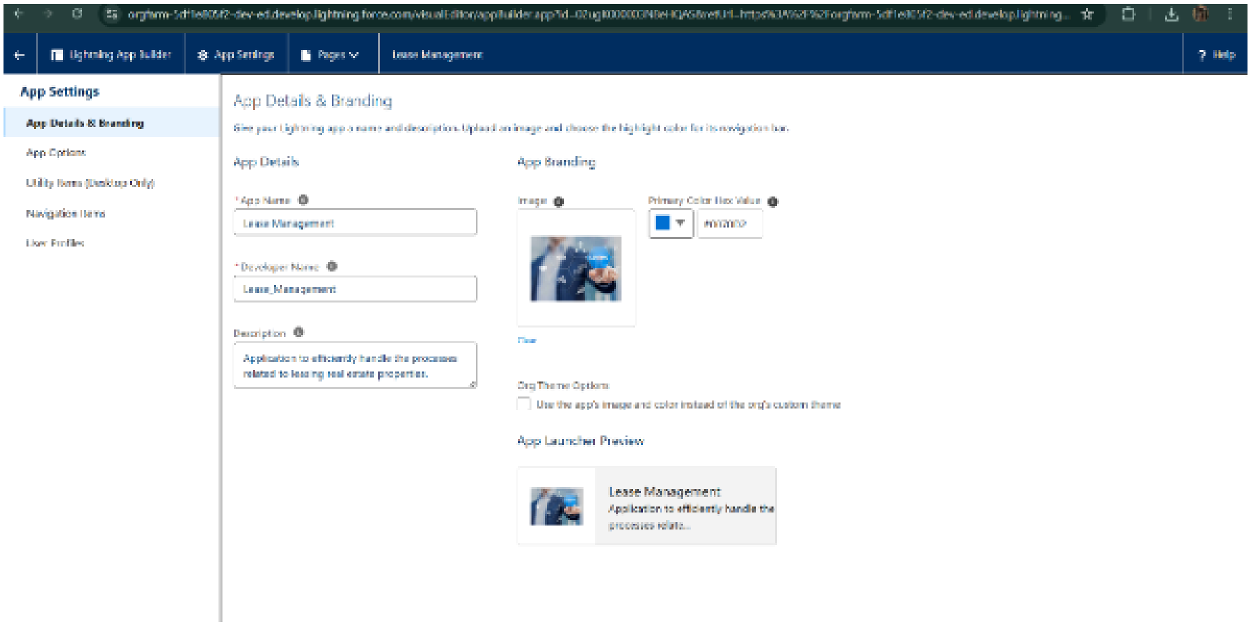
Tenant

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



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

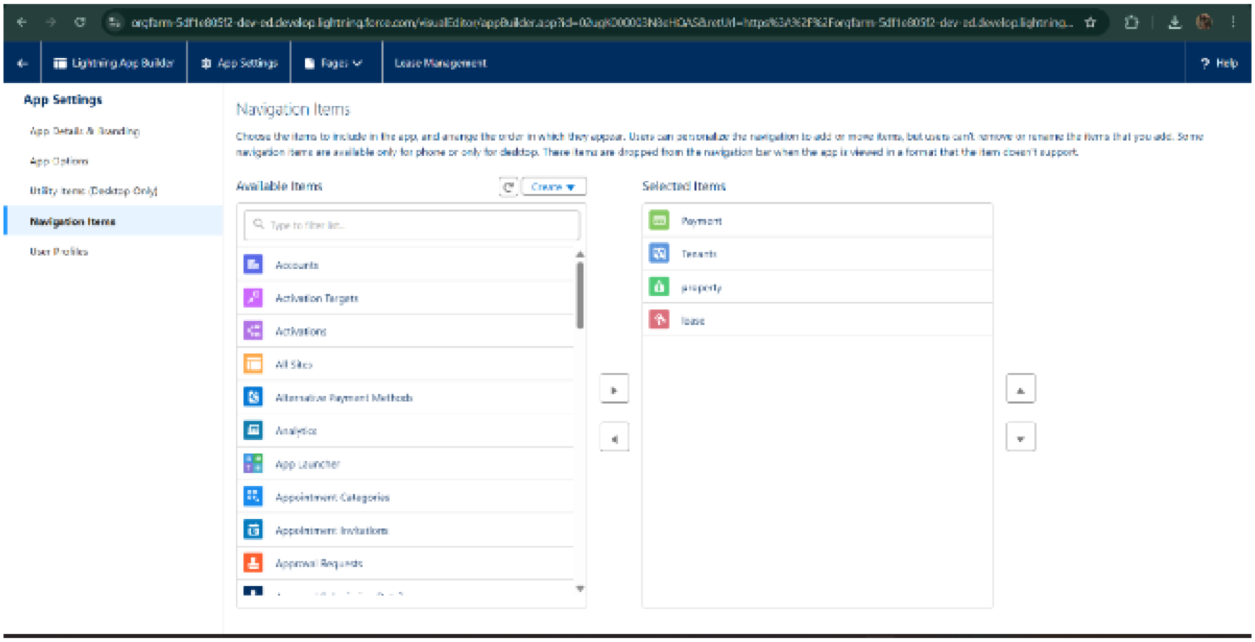
Clear

Org Theme Options

□ Use the app's image and color instead of the org's custom theme

App Launcher Preview

Lease Management
Application to efficiently handle the processes relate...



Navigation Items

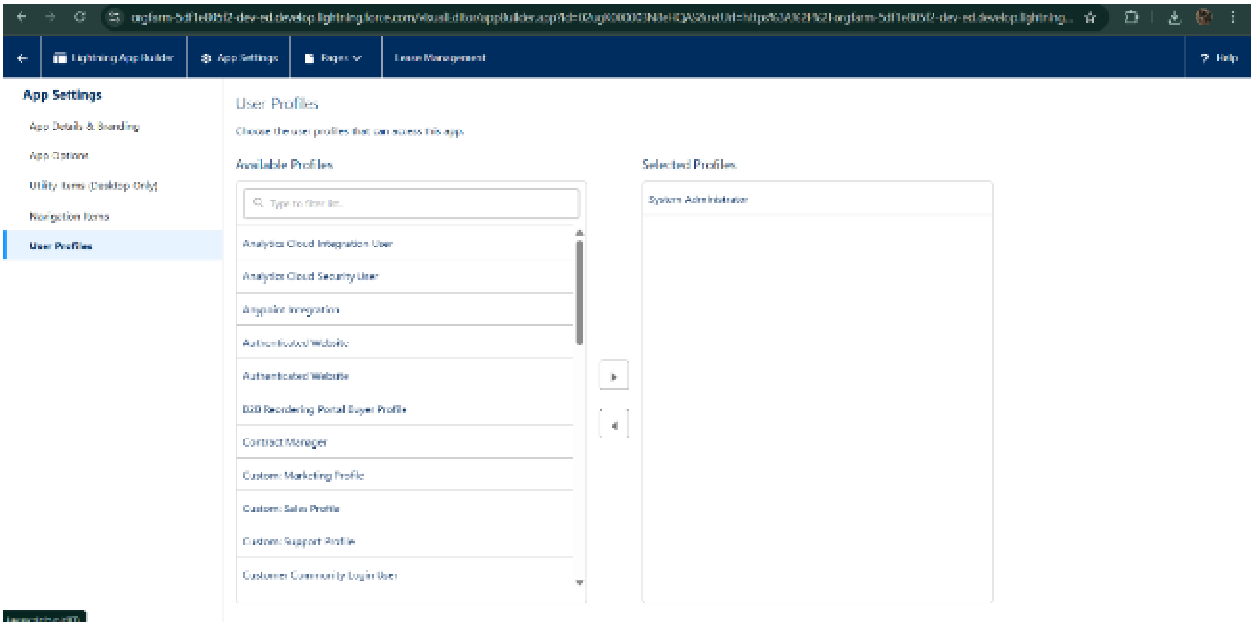
Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from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

Available Items

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

Selected Items

- Payment
- Tenants
- property
- lease


orgfarm-5df1e00512-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK0000C3NdeHQAS&retUrl=https%3A%2F%2Forgfarm-5df1e00512-dev-ed.develop.lightning...
Lightning App Builder
App Settings
Pages
Lease Management
Help

App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)
- Navigation Items
- User Profiles

User Profiles

Choose the user profiles that can access this app.

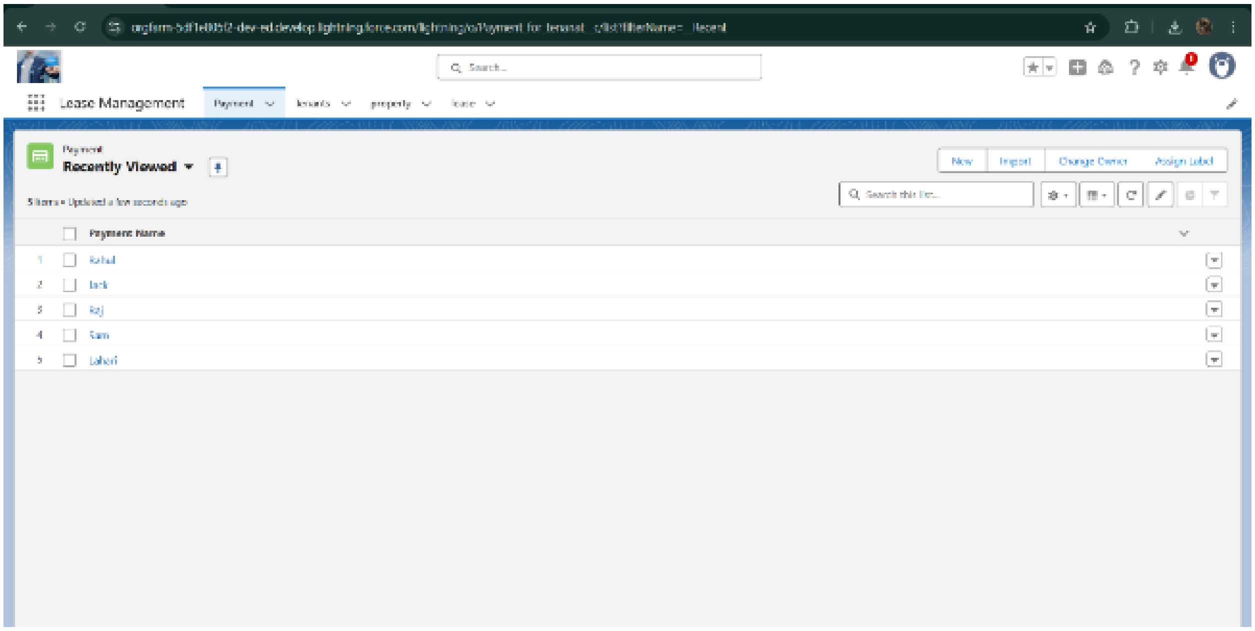
Available Profiles

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


orgfarm-5df1e00512-dev-ed.develop.lightning.force.com/lightning/o/Payment_for_tenant__c/list?filterName=__Recent
Search...
Lease Management
Payment
tenants
property
lease
New
Import
Change Owner
Assign Label
Search this list...

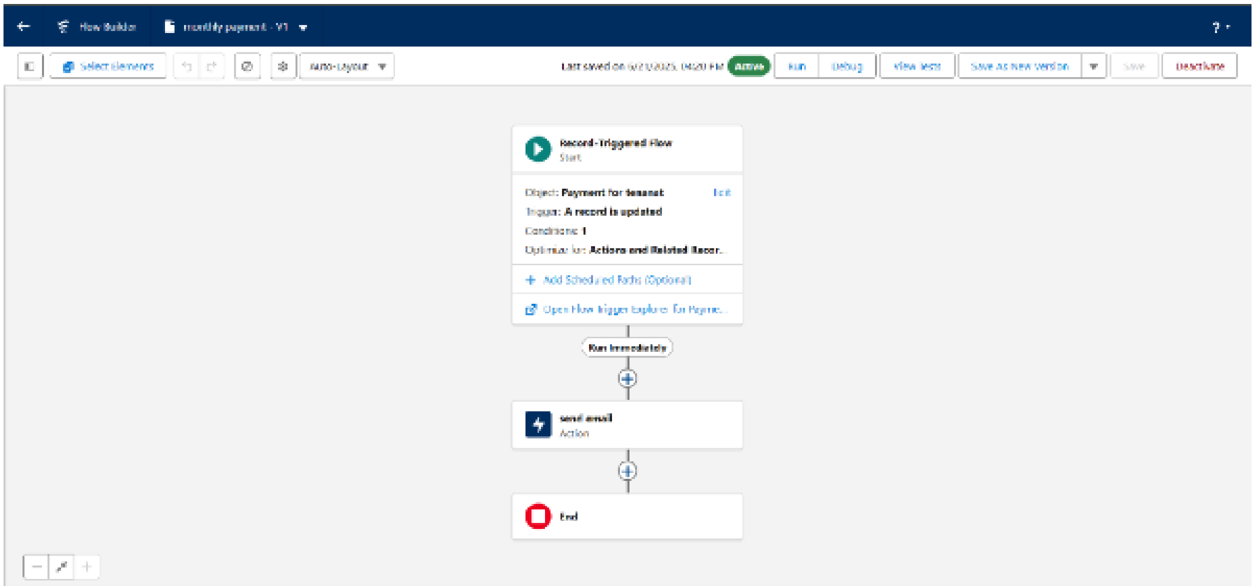
Payment

Recently Viewed

5 items • Updated a few seconds ago

| | Payment Name |
|---|---|
| 1 | Rahul |
| 2 | Jack |
| 3 | Raj |
| 4 | Sam |
| 5 | Lahari |

Implemented Flows for monthly rent and payment success



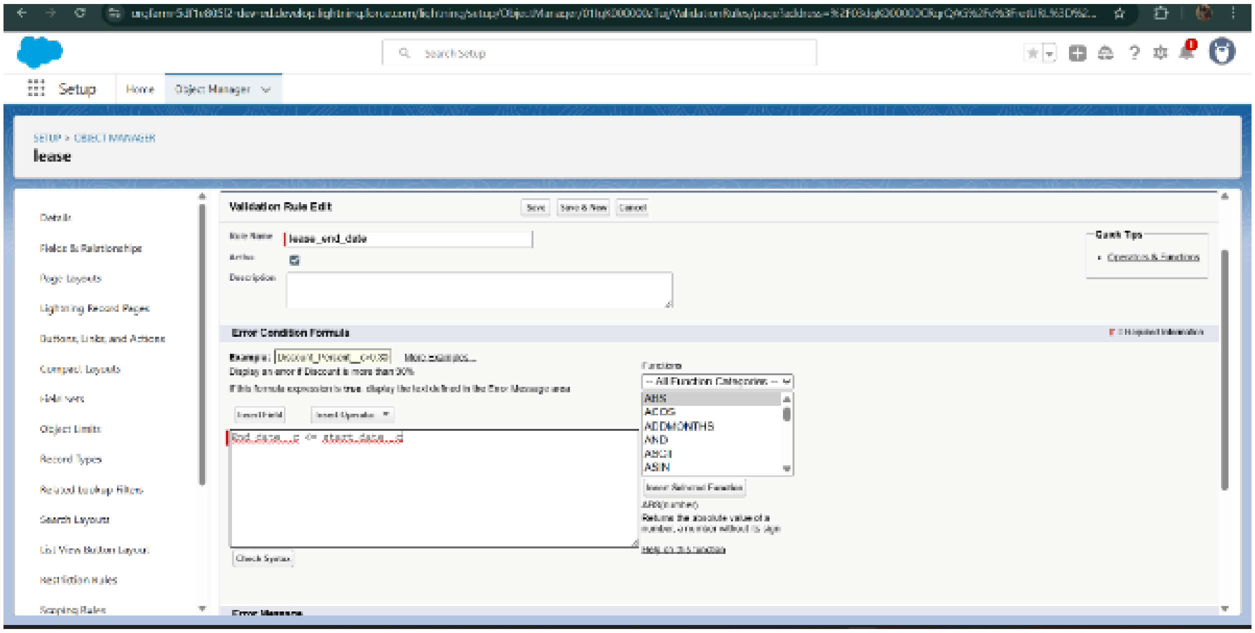
Object: Payment for tenant

Trigger: A record is updated

Conditions: 1

Optimize for: Actions and Related Recor...

To create a validation rule to a Lease Object



Rule Name: lease_end_date

Active: ☑

Description:

Example: Discount_Percent__c>0.30

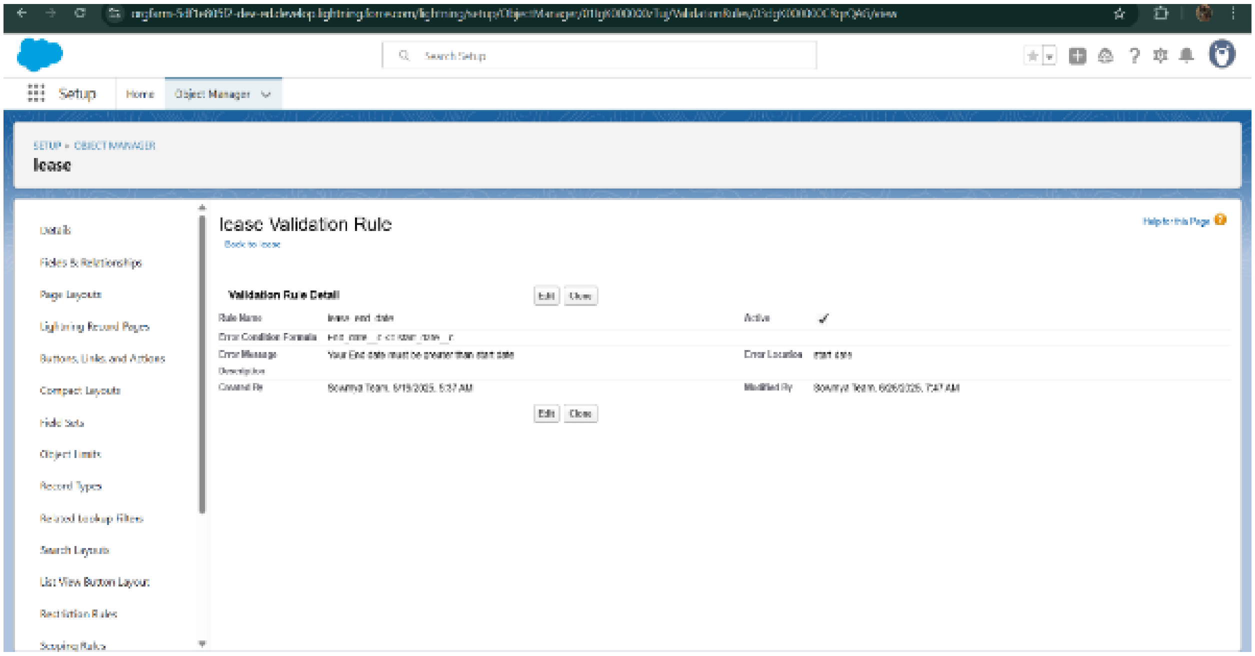
Display an error if Discount is more than 30%

If this formula expression is true, display the text defined in the Error Message area

```
End_date__c <= start_date__c
```

ABS(number)

Returns the absolute value of a number, a number without its sign



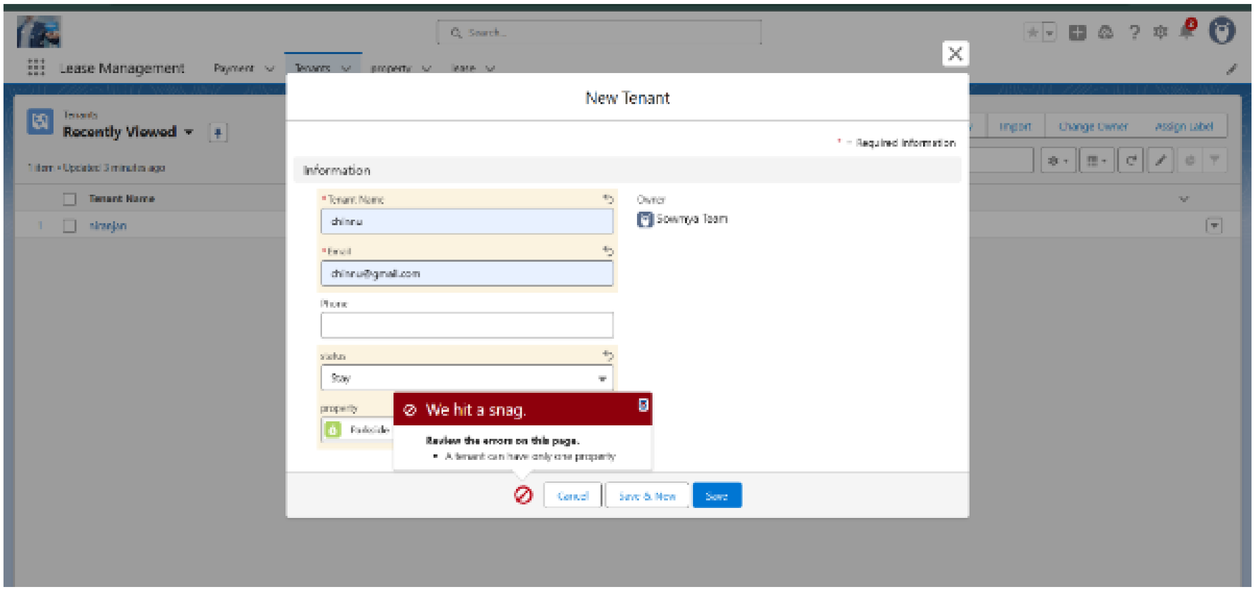
lease Validation Rule

Back to lease

**Validation Rule Detail**

| | | | |
|---|---|---|---|
| Rule Name | lease_end_date | Active | ✓ |
| Error Condition Formula | End_date__c <= start_date__c | | |
| Error Message | Your End date must be greater than start date | Error Location | start date |
| Description | | | |
| Created By | Sowmya Team, 6/19/2025, 5:37 AM | Modified By | Sowmya Team, 6/26/2025, 7:47 AM |

Added Apex trigger to restrict multiple tenants per property



New Tenant

* = Required Information

Information

*Tenant Name: chinnu

*Email: chinnu@gmail.com

Phone:

status: Stay

property: Parkside

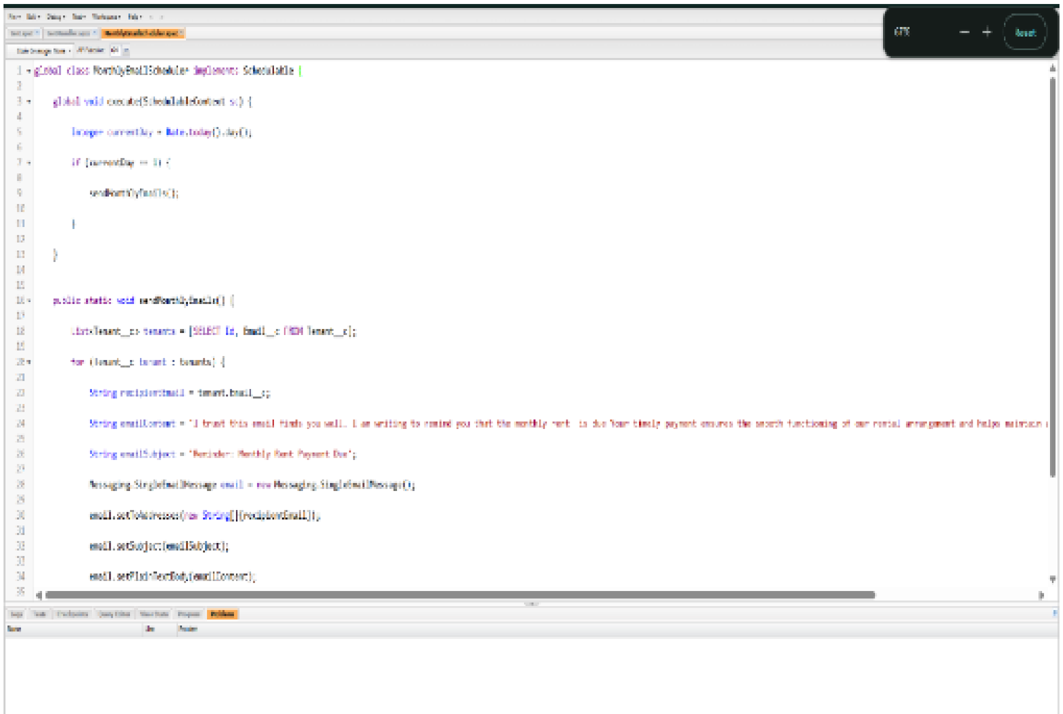
Owner: Sowmya Team

We hit a snag.

**Review the errors on this page.**

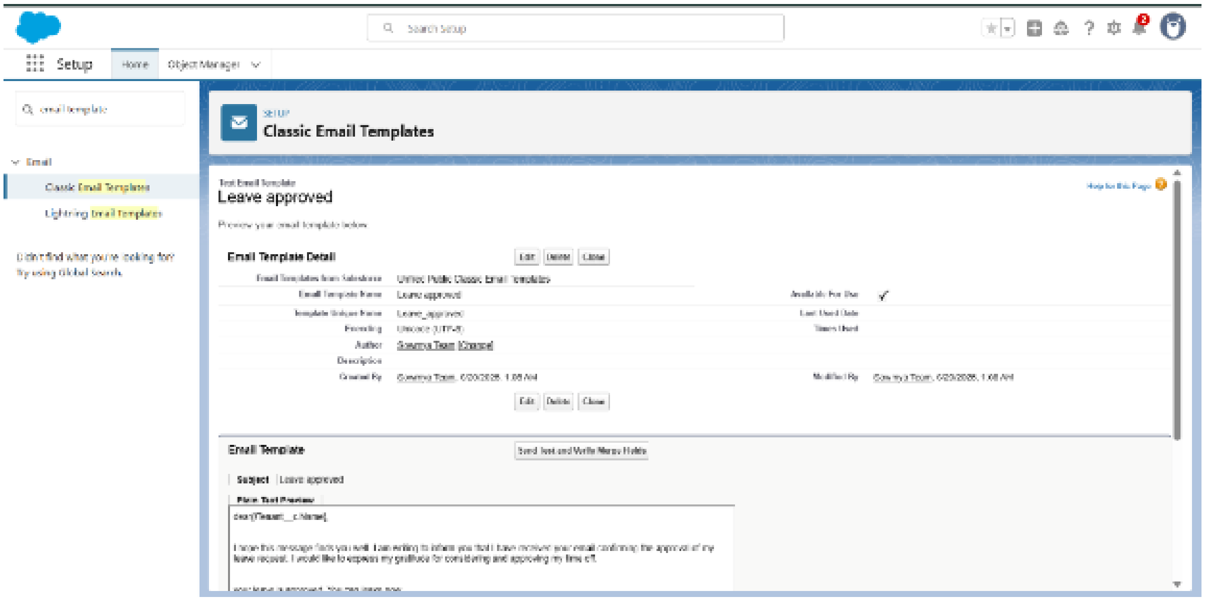
- A tenant can have only one property

Scheduled monthly reminder emails using Apex class



```
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

            String emailSubject = 'Reminder: Monthly Rent Payment Due';

            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();

            email.setToAddresses(new String[]{recipientEmail});

            email.setSubject(emailSubject);

            email.setPlainTextBody(emailContent);
```

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



Search Setup
Setup
Home
Object Manager
email template
Email
Classic Email Templates
Lightning Email Templates
Didn't find what you're looking for? Try using Global Search.
SETUP

Classic Email Templates

Text Email Template

Leave approved

Preview your email template below.

**Email Template Detail**

| | | | |
|---|---|---|---|
| Email Templates from Salesforce | Unfiled Public Classic Email Templates | | |
| Email Template Name | Leave approved | Available For Use | ✓ |
| Template Unique Name | Leave_approved | Last Used Date | |
| Encoding | Unicode (UTF-8) | Times Used | |
| Author | Sowmya Team [Change] | | |
| Description | | | |
| Created By | Sowmya Team, 6/20/2025, 1:08 AM | Modified By | Sowmya Team, 6/20/2025, 1:08 AM |

**Email Template**

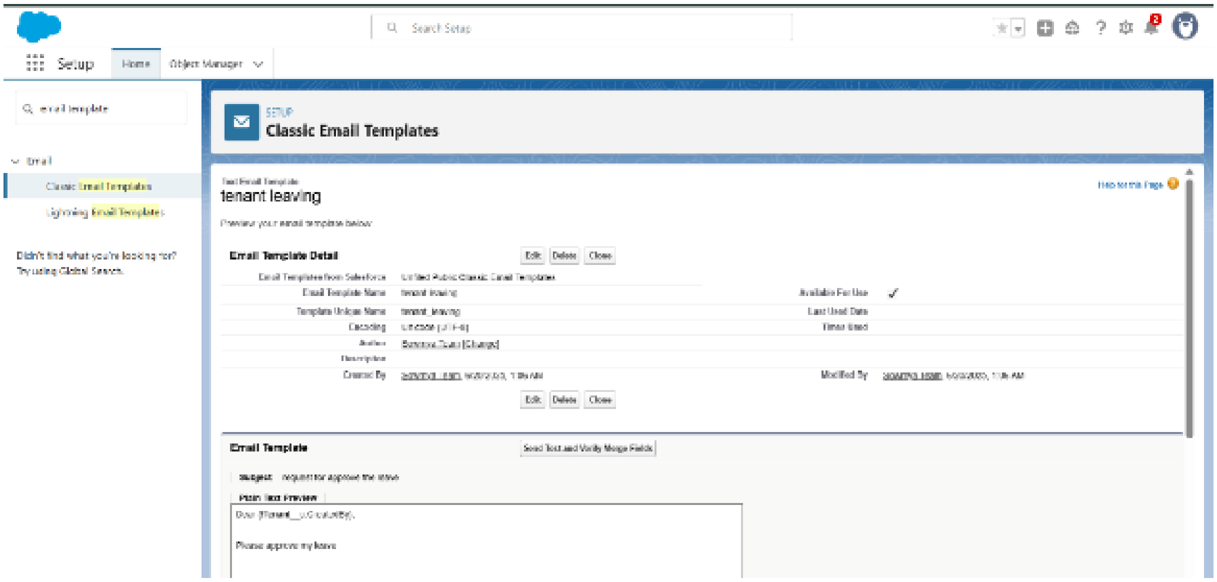
**Subject** Leave approved

**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



Text Email Template

tenant leaving

Preview your email template below:

**Email Template Detail**

| | | | |
|---|---|---|---|
| Email Templates from Salesforce | Unified Public Classic Email Templates | | |
| Email Template Name | tenant leaving | Available For Use | ✓ |
| Template Unique Name | tenant_leaving | Last Used Date | |
| Encoding | Unicode (UTF-8) | Times Used | |
| Author | Sowmya Team [Change] | | |
| Description | | | |
| Created By | Sowmya Team, 6/20/2020, 1:06 AM | Modified By | Sowmya Team, 6/20/2020, 1:06 AM |

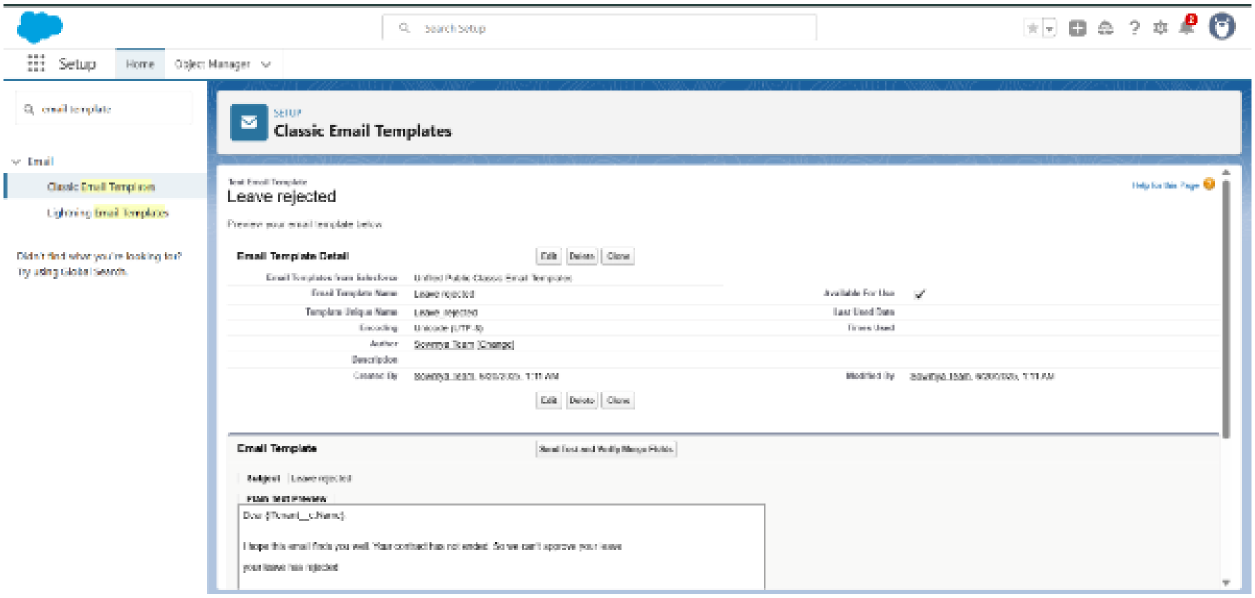
**Email Template**

**Subject** request for approve the leave

**Plain Text Preview**

Dear {!Tenant__c.CreatedBy},

Please approve my leave



Text Email Template

Leave rejected

Preview your email template below:

**Email Template Detail**

| | | | |
|---|---|---|---|
| Email Templates from Salesforce | Unified Public Classic Email Templates | | |
| Email Template Name | Leave rejected | Available For Use | ✓ |
| Template Unique Name | Leave_rejected | Last Used Date | |
| Encoding | Unicode (UTF-8) | Times Used | |
| Author | Sowmya Team [Change] | | |
| Description | | | |
| Created By | Sowmya Team, 6/20/2020, 1:11 AM | Modified By | Sowmya Team, 6/20/2020, 1:11 AM |

**Email Template**

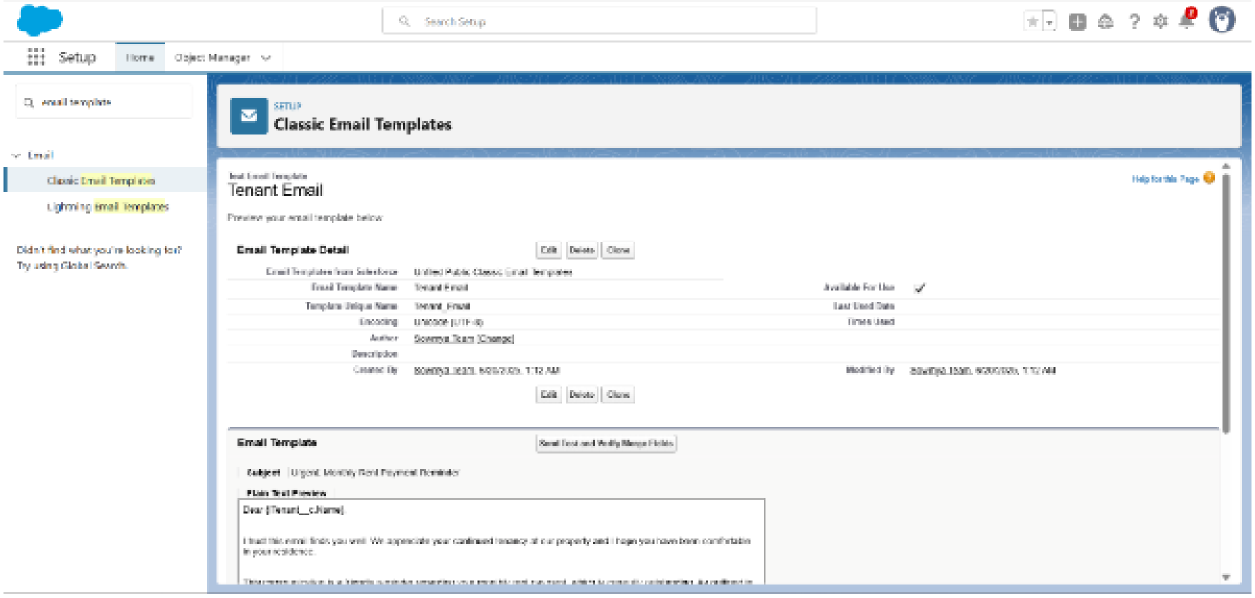
**Subject** Leave rejected

**Plain Text Preview**

Dear {!Tenant__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



Text Email Template

Tenant Email

Preview your email template below

**Email Template Detail**

| | | | |
|---|---|---|---|
| Email Templates from Salesforce | Unified Public Classic Email Templates | | |
| Email Template Name | Tenant Email | Available For Use | ✓ |
| Template Unique Name | Tenant_Email | Last Used Date | |
| Encoding | Unicode (UTF-8) | Times Used | |
| Author | Sowmya Team [Change] | | |
| Description | | | |
| Created By | Sowmya Team, 6/20/2025, 1:12 AM | Modified By | Sowmya Team, 6/20/2025, 1:12 AM |

**Email Template**

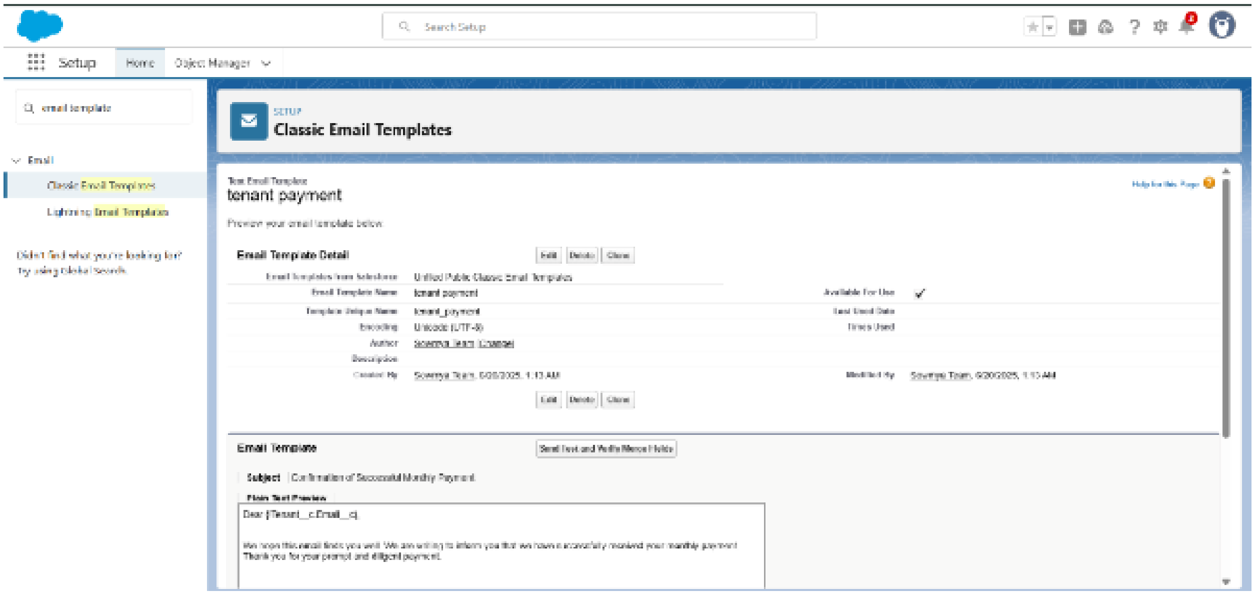
**Subject** Urgent: Monthly Rent Payment Reminder

**Plain Text Preview**

Dear {!Tenant__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.

This email serves as a friendly reminder regarding your monthly rent payment, which is currently outstanding, as outlined in



Text Email Template

tenant payment

Preview your email template below

**Email Template Detail**

| | | | |
|---|---|---|---|
| Email Templates from Salesforce | Unified Public Classic Email Templates | | |
| Email Template Name | tenant payment | Available For Use | ✓ |
| Template Unique Name | tenant_payment | Last Used Date | |
| Encoding | Unicode (UTF-8) | Times Used | |
| Author | Sowmya Team [Change] | | |
| Description | | | |
| Created By | Sowmya Team, 6/20/2025, 1:13 AM | Modified By | Sowmya Team, 6/20/2025, 1:13 AM |

**Email Template**

**Subject** Confirmation of Successful Monthly Payment

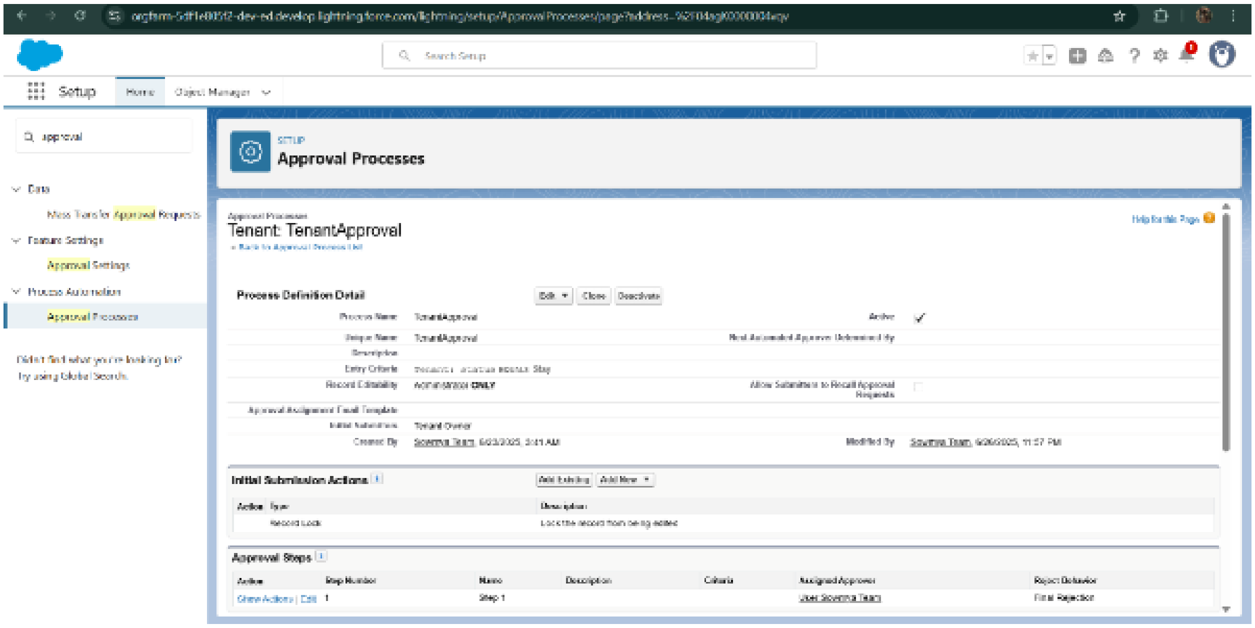
**Plain Text Preview**

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:



orgfarm-5df1e80512-dev-ed.develop.lightning.force.com/lightning/setup/ApprovalProcesses/page?address=%2F04agK000004qv

Setup | Home | Object Manager

approval

- Data
  - Mass Transfer Approval Requests
- Feature Settings
  - Approval Settings
- Process Automation
  - Approval Processes

Didn't find what you're looking for? Try using Global Search.

SETUP
Approval Processes

Approval Processes
Tenant: TenantApproval
« Back to Approval Process List

Process Definition Detail

| | | | |
|---|---|---|---|
| Process Name | TenantApproval | Active | ✓ |
| Unique Name | TenantApproval | Next Automated Approver Determined By | |
| Description | | | |
| Entry Criteria | Tenant: Status EQUALS Stay | | |
| Record Editability | Administrator ONLY | Allow Submitters to Recall Approval Requests | □ |
| Approval Assignment Email Template | | | |
| Initial Submitters | Tenant Owner | | |
| Created By | Sowmya Team, 6/03/2025, 3:41 AM | Modified By | Sowmya Team, 6/26/2025, 11:57 PM |

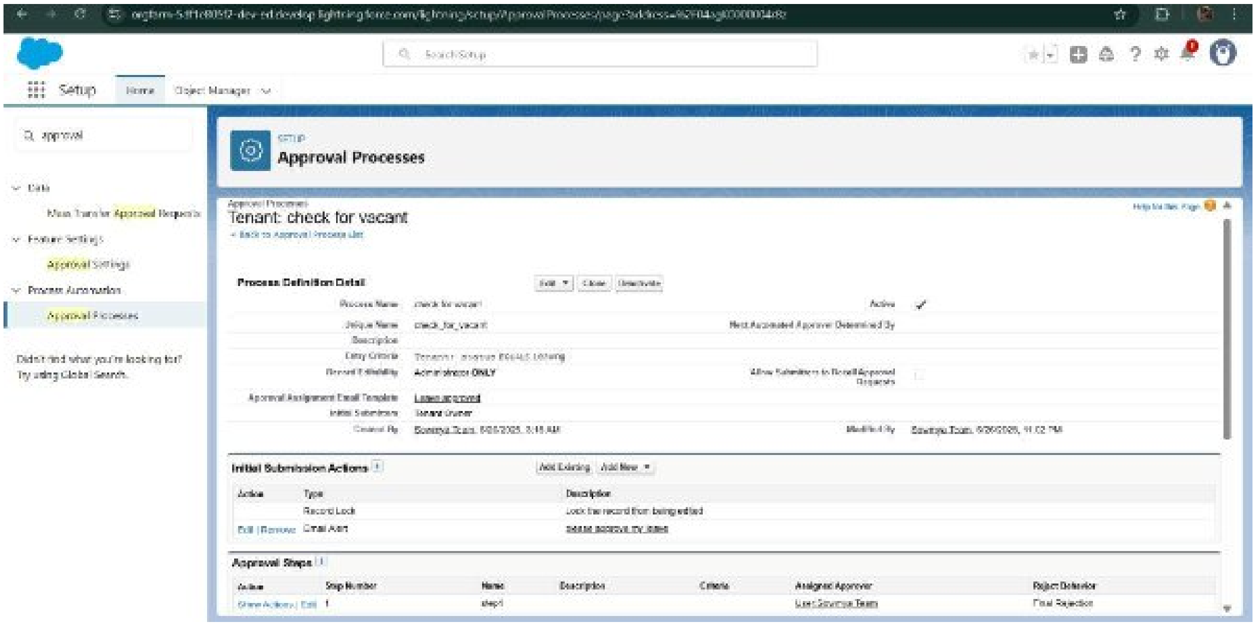
Initial Submission Actions

| 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 Sowmya Team | Final Rejection |

For Check for Vacant:



orgfarm-5df1e80512-dev-ed.develop.lightning.force.com/lightning/setup/ApprovalProcesses/page?address=%2F04agK000004dz

Setup | Home | Object Manager

approval

- Data
  - Mass Transfer Approval Requests
- Feature Settings
  - Approval Settings
- Process Automation
  - Approval Processes

Didn't find what you're looking for? Try using Global Search.

SETUP
Approval Processes

Approval Processes
Tenant: check for vacant
« Back to Approval Process List

Process Definition Detail

| | | | |
|---|---|---|---|
| Process Name | check for vacant | Active | ✓ |
| Unique Name | check_for_vacant | Next Automated Approver Determined By | |
| Description | | | |
| Entry Criteria | Tenant: Status EQUALS Leaving | | |
| Record Editability | Administrator ONLY | Allow Submitters to Recall Approval Requests | □ |
| Approval Assignment Email Template | Leave approved | | |
| Initial Submitters | Tenant Owner | | |
| Created By | Sowmya Team, 6/03/2025, 3:45 AM | Modified By | Sowmya Team, 6/26/2025, 11:02 PM |

Initial Submission Actions

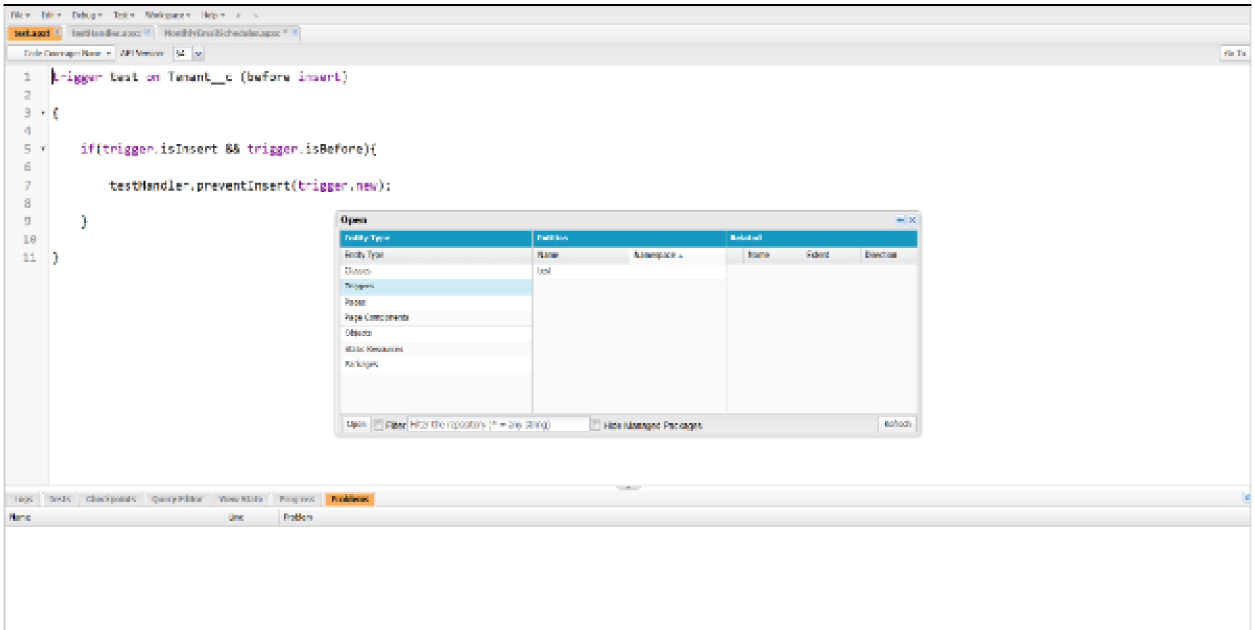
| Action | Type | Description |
|---|---|---|
| | Record Lock | Lock the record from being edited |
| Edit \| Remove | Email Alert | [illegible] |

Approval Steps

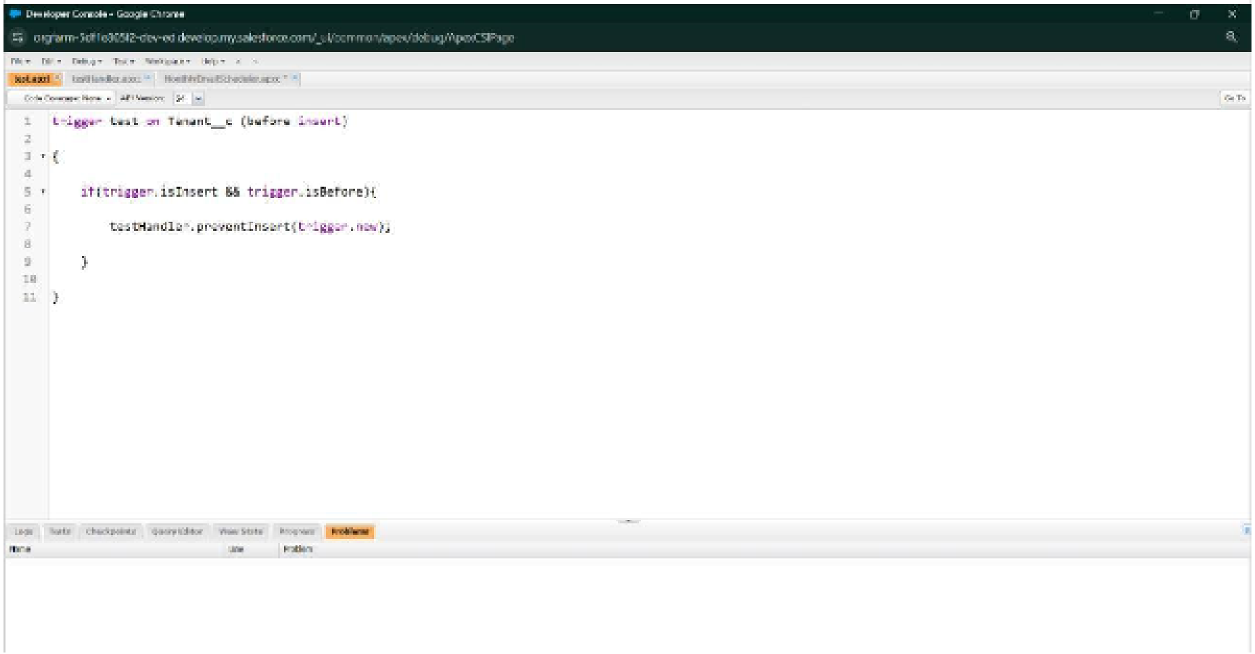
| Action | Step Number | Name | Description | Criteria | Assigned Approver | Reject Behavior |
|---|---|---|---|---|---|---|
| Show Actions \| Edit | 1 | step1 | | | User Sowmya Team | Final Rejection |

## Apex Trigger

## Create an Apex Trigger

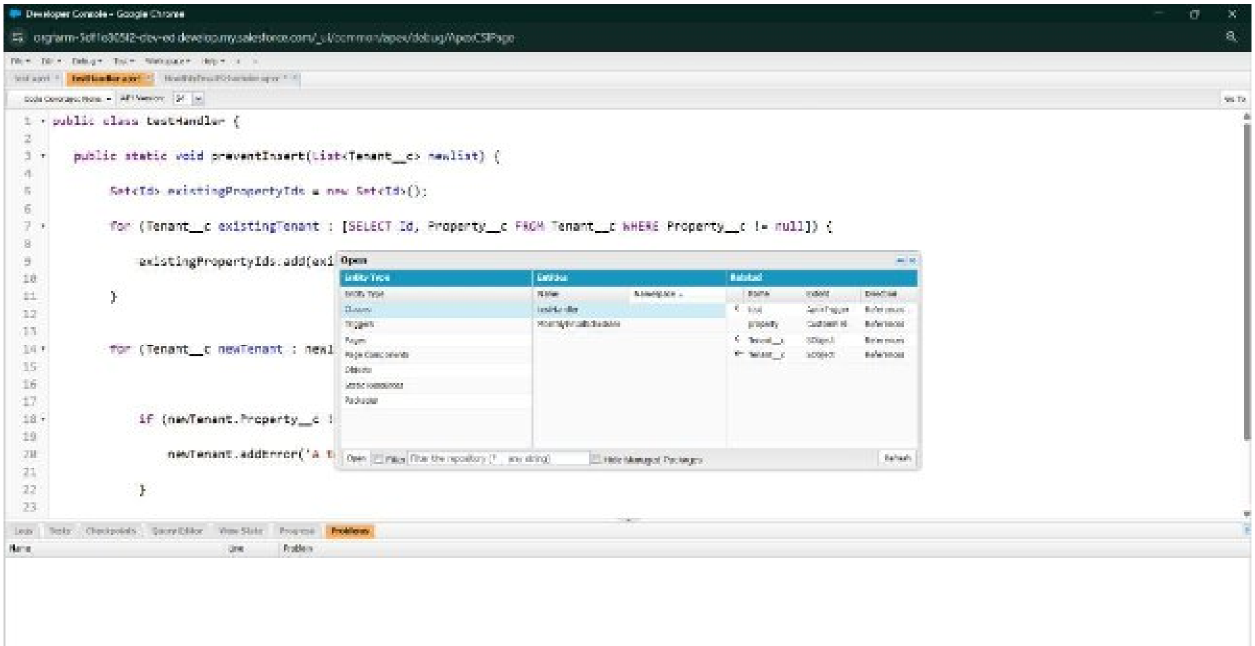


```
trigger test on Tenant__c (before insert)

{

    if(trigger.isInsert && trigger.isBefore){

        testHandler.preventInsert(trigger.new);

    }

}
```

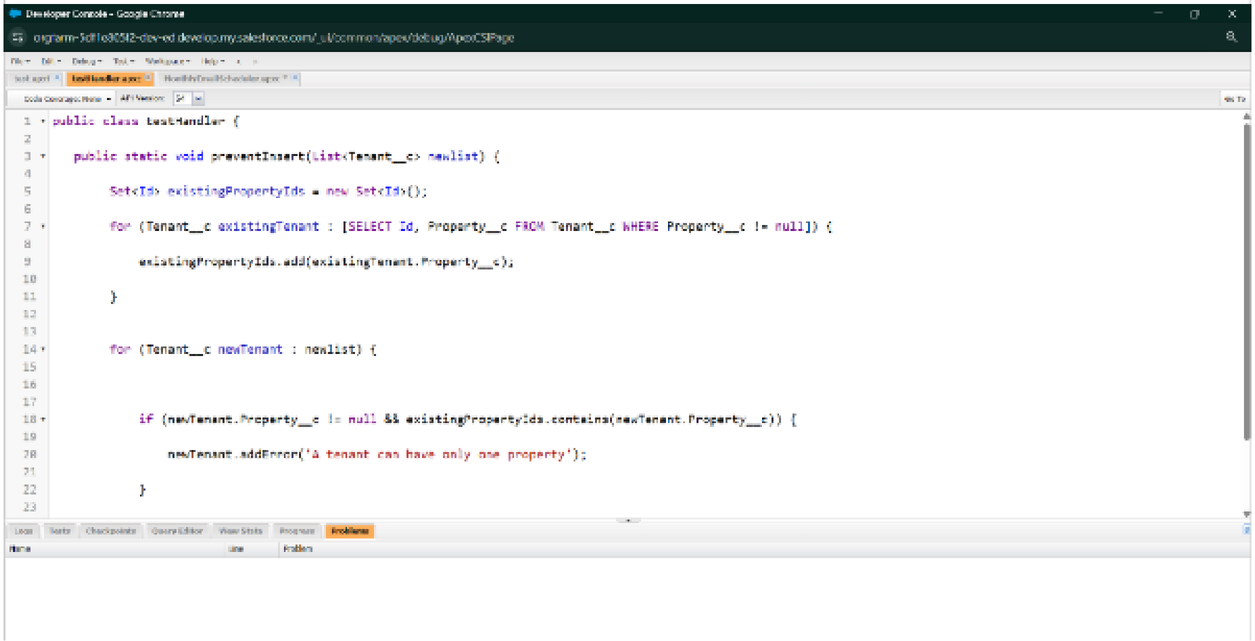


```
trigger test on Tenant__c (before insert)

{

    if(trigger.isInsert && trigger.isBefore){

        testHandler.preventInsert(trigger.new);

    }

}
```

## Create an Apex Handler class

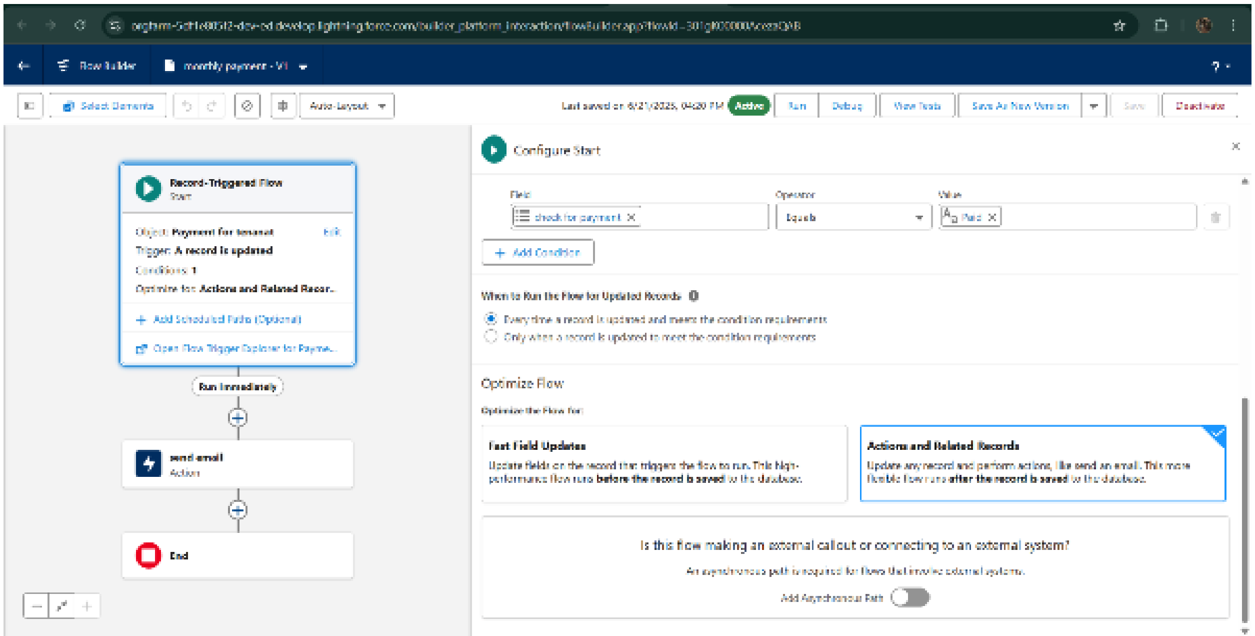


```
public class testHandler {

   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(exi

        }


        for (Tenant__c newTenant : newl



            if (newTenant.Property__c !

                newTenant.addError('A t

            }

```



```
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');

            }

```

# FLOWS



Configure Start

| Field | Operator | Value |
|---|---|---|
| check for payment | Equals | Paid |

When to Run the Flow for Updated Records

● Every time a record is updated and meets the condition requirements
○ Only when a record is updated to meet the condition requirements

Optimize Flow

Optimize the Flow for:

Fast Field Updates: Update fields on the record that triggers the flow to run. This high-performance flow runs **before the record is saved** to the database.

☑ Actions and Related Records: Update any record and perform actions, like send an email. This more flexible flow runs **after the record is saved** to the database.

Is this flow making an external callout or connecting to an external system?

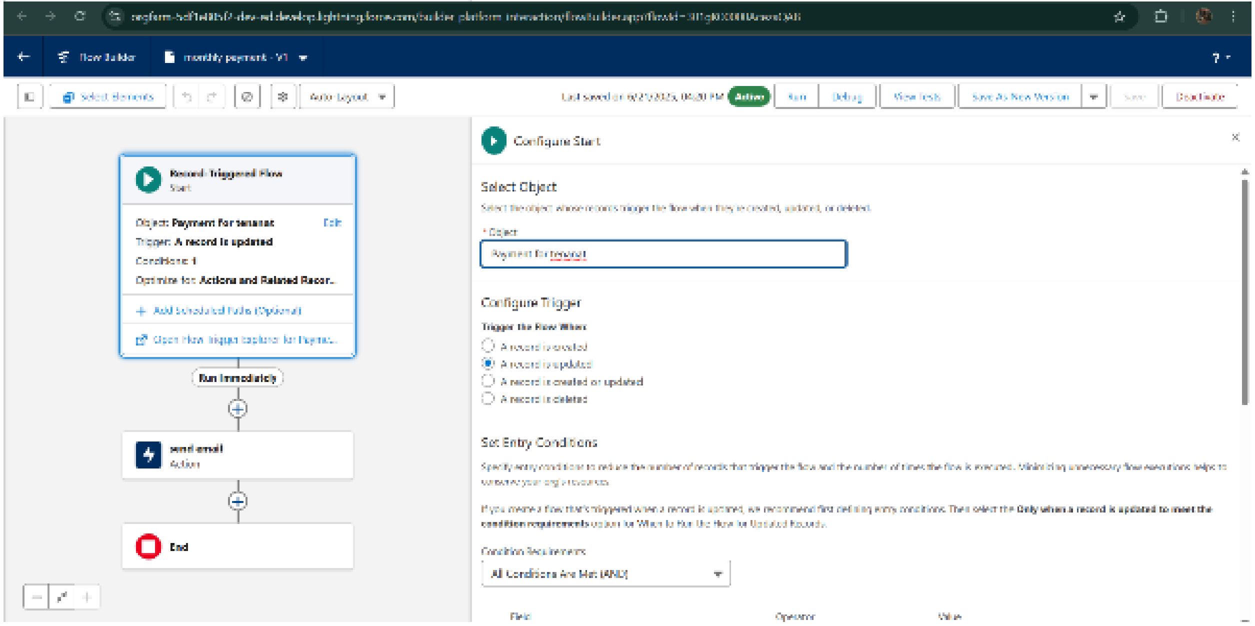
An asynchronous path is required for flows that involve external systems.

Add Asynchronous Path: off

Record-Triggered Flow (Start)

Object: Payment for tenanat
Trigger: A record is updated
Conditions: 1
Optimize for: Actions and Related Recor...

orgfarm-5cf1e80512-dev-ed.develop.lightning.force.com/builder_platform_interaction/flowbuilder.app?flowId=301gK00000AcezzQAB
Flow Builder
monthly payment - V1
Select Elements
Auto-Layout
Last saved on 6/21/2025, 04:20 PM
Active
Run
Debug
View Tests
Save As New Version
Save
Deactivate
+ Add Condition
Edit
+ Add Scheduled Paths (Optional)
Open Flow Trigger Explorer for Payme...
Run Immediately
send email
Action
End



Configure Start

Select Object

Select the object whose records trigger the flow when they're created, updated, or deleted.

* Object: Payment for tenanat

Configure Trigger

Trigger the Flow When:

○ A record is created
● A record is updated
○ A record is created or updated
○ A record is deleted

Set Entry Conditions

Specify entry conditions to reduce the number of records that trigger the flow and the number of times the flow is executed. Minimizing unnecessary flow executions helps to conserve your org's resources.

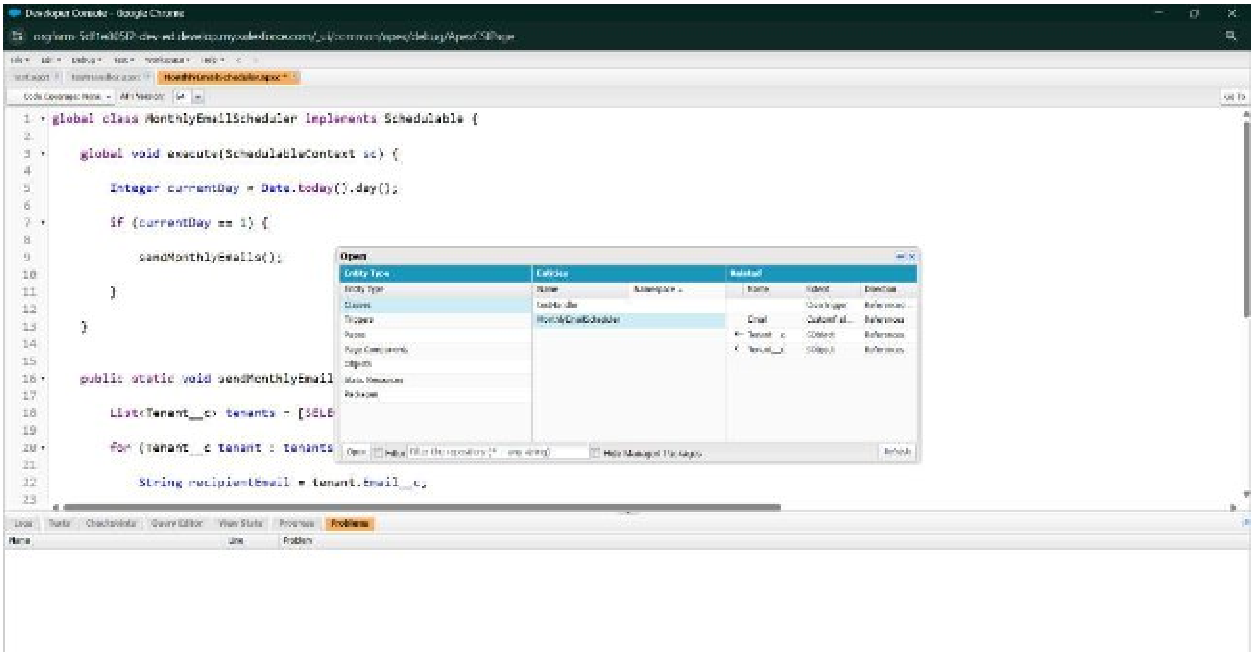
If you create a flow that's triggered when a record is updated, we recommend first defining entry conditions. Then select the **Only when a record is updated to meet the condition requirements** option for When to Run the Flow for Updated Records.

Condition Requirements: All Conditions Are Met (AND)

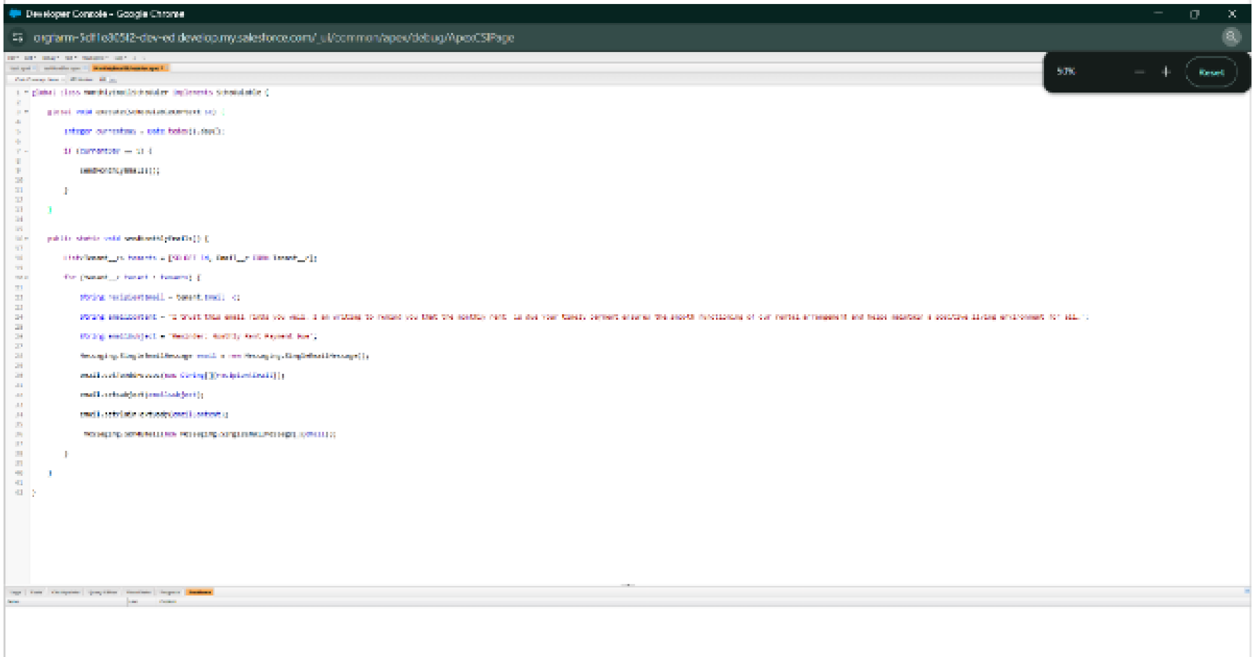
orgfarm-5cf1e80512-dev-ed.develop.lightning.force.com/builder_platform_interaction/flowbuilder.app?flowId=301gK00000AcezzQAB
Flow Builder
monthly payment - V1
Select Elements
Auto-Layout
Last saved on 6/21/2025, 04:20 PM
Active
Run
Debug
View Tests
Save As New Version
Save
Deactivate
Record-Triggered Flow
Start
Object: Payment for tenanat
Trigger: A record is updated
Conditions: 1
Optimize for: Actions and Related Recor...
Edit
+ Add Scheduled Paths (Optional)
Open Flow Trigger Explorer for Payme...
Run Immediately
send email
Action
End
Field
Operator
Value

Schedule class:

Create an Apex Class

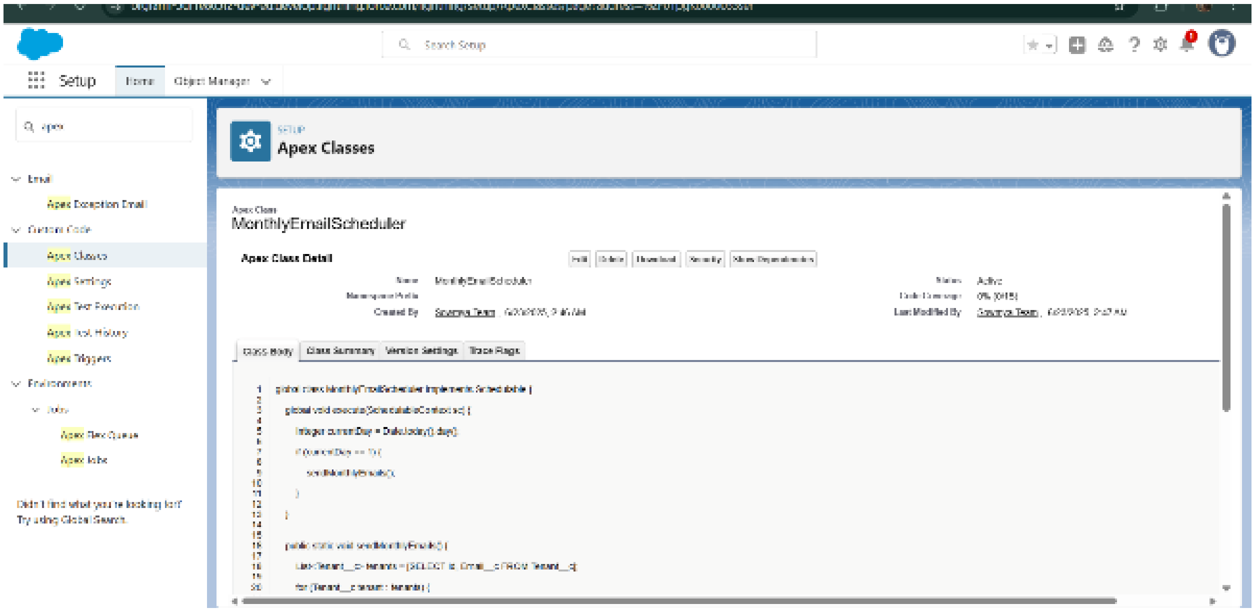


```
global class MonthlyEmailScheduler implements Schedulable {

    global void execute(SchedulableContext sc) {

        Integer currentDay = Date.today().day();

        if (currentDay == 1) {

            sendMonthlyEmails();

        }

    }


    public static void sendMonthlyEmail

        List<Tenant__c> tenants = [SELE

        for (Tenant__c tenant : tenants

            String recipientEmail = tenant.Email__c;

```


Developer Console - Google Chrome
orgfarm-5df1e30512-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
50%
Reset

```
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 [illegible] 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});

        }

    }

}
```

Schedule Apex class

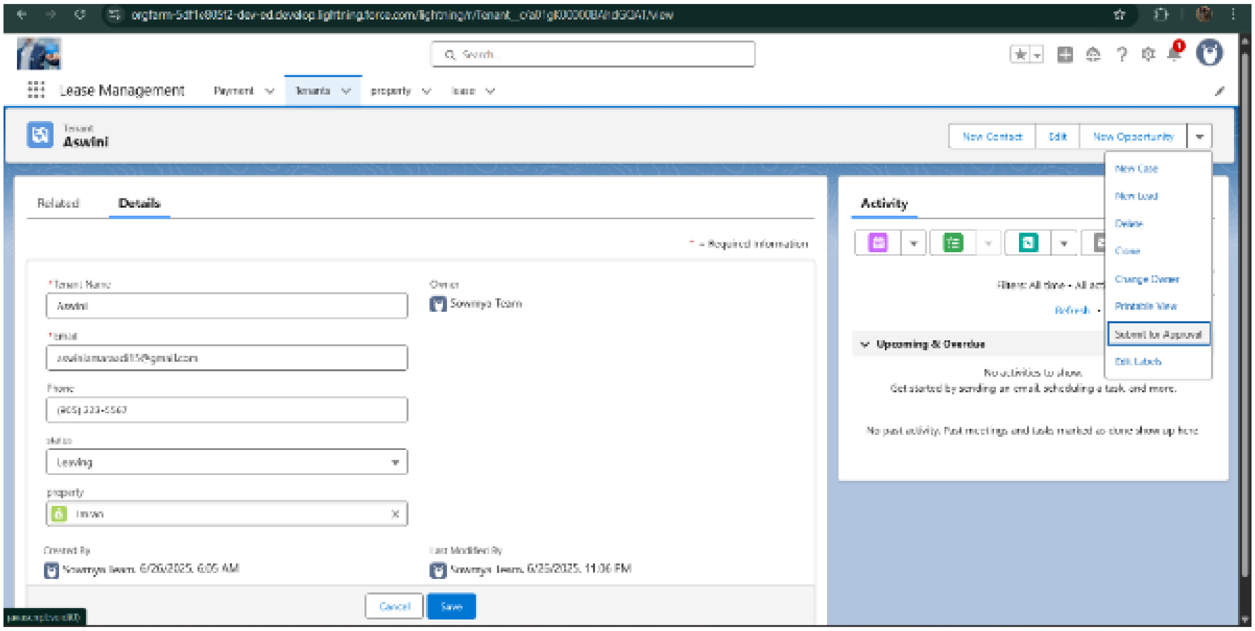


Apex Class
MonthlyEmailScheduler

Apex Class Detail

| | | | |
|---|---|---|---|
| Name | MonthlyEmailScheduler | Status | Active |
| Namespace Prefix | | Code Coverage | 0% (0/15) |
| Created By | Sowmya Team, 6/26/2025, 2:46 AM | Last Modified By | Sowmya Team, 6/26/2025, 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) {
```



Tenant
Aswini

* = Required information

| | |
|---|---|
| *Tenant Name: Aswini | Owner: Sowmya Team |
| *email: aswinimaraadi15@gmail.com | |
| Phone: (905) 333-5567 | |
| status: Leaving | |
| property: Imran | |
| Created By: Sowmya Team, 6/26/2025, 6:05 AM | Last Modified By: Sowmya Team, 6/25/2025, 11:06 PM |

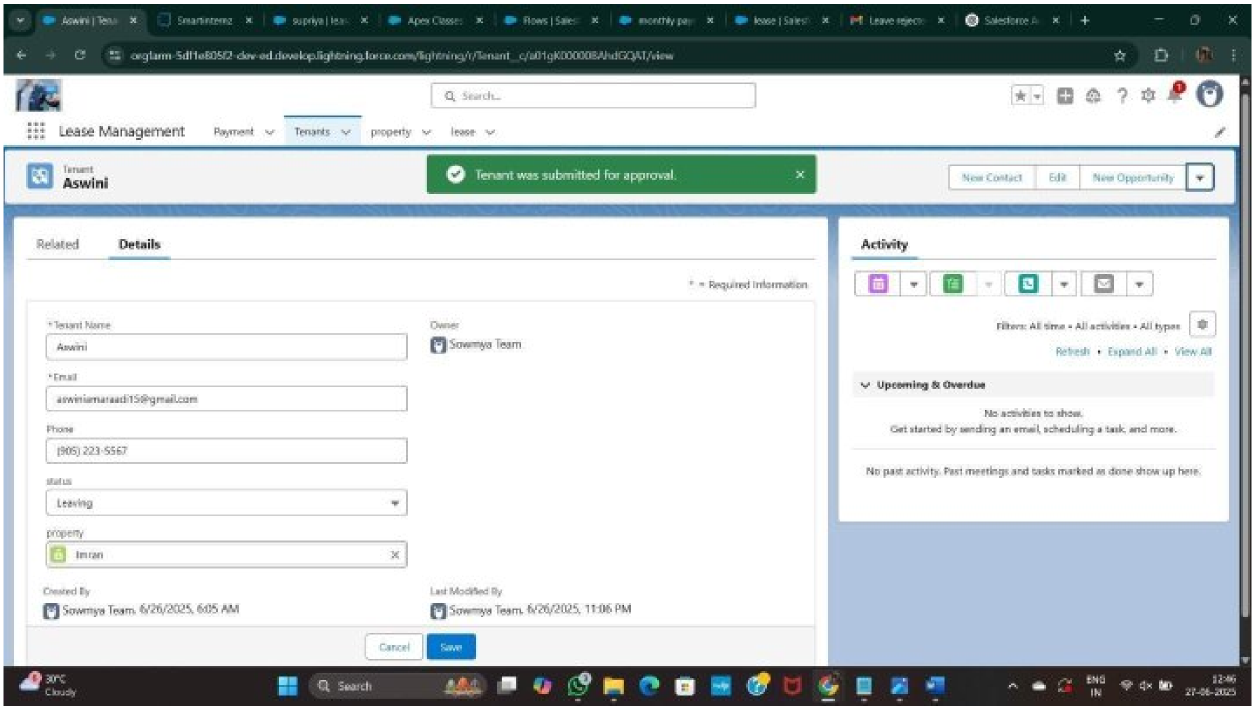
Filters: All time • All activities

Refresh •

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.



orglamm-5df1e805f2-dev-ed.develop.lightning.force.com/lightning/r/Tenant__c/a01gK000008AhdGQAT/view

Tenant
Aswini

Tenant was submitted for approval.

* = Required Information

*Tenant Name: Aswini

*Email: aswiniamaraadi15@gmail.com

Phone: (905) 223-5567

status: Leaving

property: Imran

Owner: Sowmya Team

Created By: Sowmya Team, 6/26/2025, 6:05 AM

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

Activity

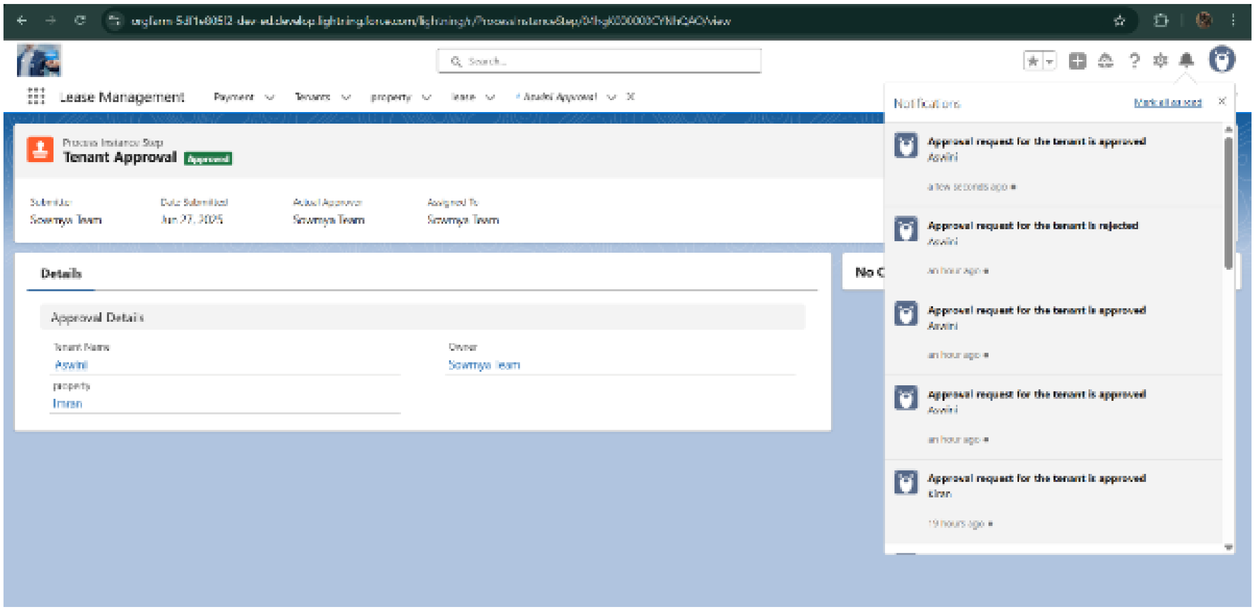
Filters: All time • All activities • All types

Refresh • Expand All • View All

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.



orglamm-5df1e805f2-dev-ed.develop.lightning.force.com/lightning/r/ProcessInstanceStep/04hgK000000CYNhQAO/view

Process Instance Step
Tenant Approval Approved

| Submitter | Date Submitted | Actual Approver | Assigned To |
|---|---|---|---|
| Sowmya Team | Jun 27, 2025 | Sowmya Team | Sowmya Team |

Approval Details

Tenant Name: Aswini

property: Imran

Owner: Sowmya Team

Notifications — Mark all as read

Approval request for the tenant is approved
Aswini
a few seconds ago

Approval request for the tenant is rejected
Aswini
an hour ago

Approval request for the tenant is approved
Aswini
an hour ago

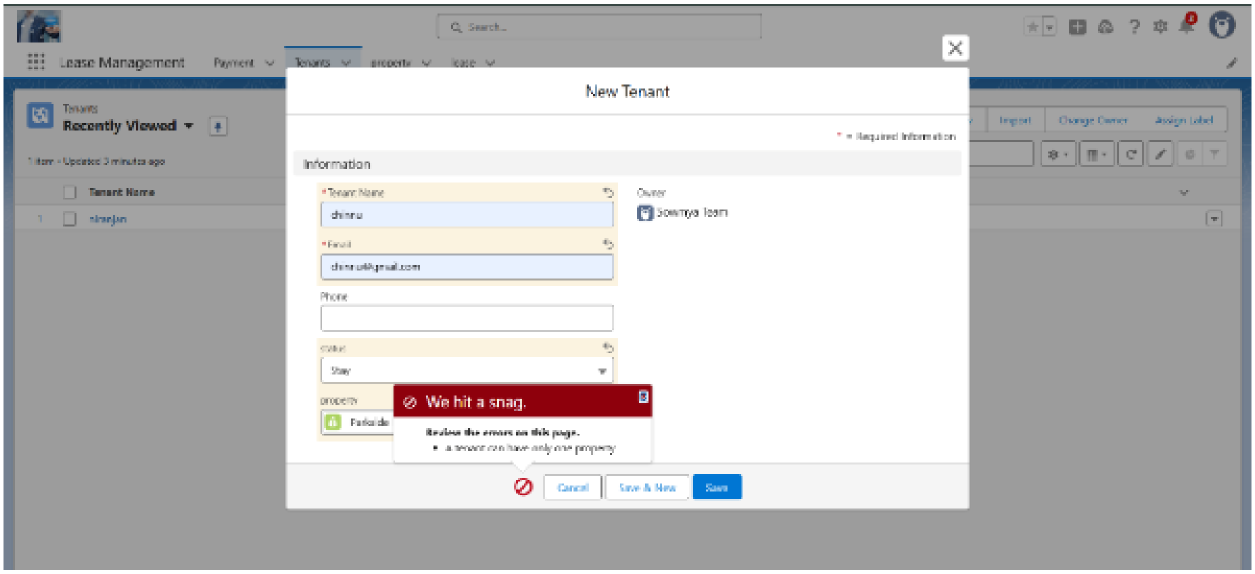
Approval request for the tenant is approved
Aswini
an hour ago

Approval request for the tenant is approved
kiran
19 hours ago

# FUNCTIONAL AND PERFORMANCE TESTING

## Performance Testing

Trigger validation by entering duplicate tenant-property records



New Tenant

* = Required Information

Information

*Tenant Name: chinnu

*Email: chinnu@gmail.com

Phone:

status: Stay

property: Parkside

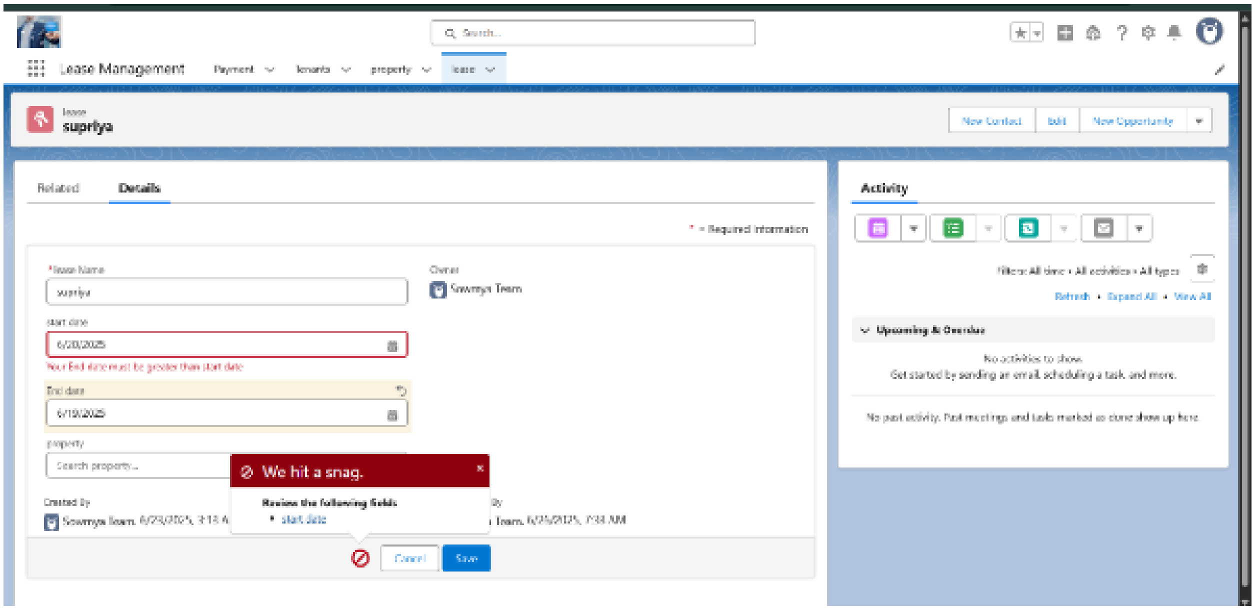
Owner: Sowmya Team

We hit a snag.

Review the errors on this page.

- a tenant can have only one property

Validation Rule checking



lease
**suprlya**

* = Required Information

*lease Name
suprlya

Owner
Sowmya Team

start date
6/20/2025

Your End date must be greater than start date

End date
6/19/2025

property
Search property...

Created By
Sowmya Team, 6/23/2025, 3:13 A

By
Team, 6/26/2025, 7:33 AM

We hit a snag.

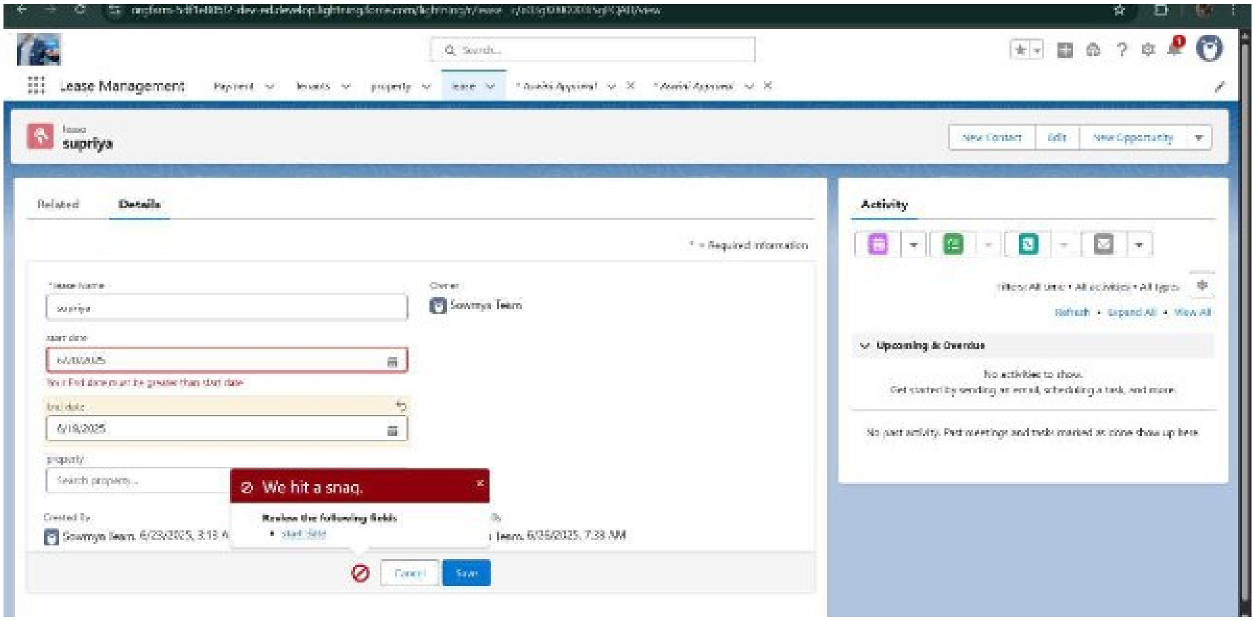
**Review the following fields**

- start date

Filters: All time • All activities • All types

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
**suprlya**

* = Required Information

*lease Name
suprlya

Owner
Sowmya Team

start date
6/20/2025

Your End date must be greater than start date

End date
6/19/2025

property
Search property...

Created By
Sowmya Team, 6/23/2025, 3:13 A

By
Team, 6/26/2025, 7:33 AM

We hit a snag.

**Review the following fields**

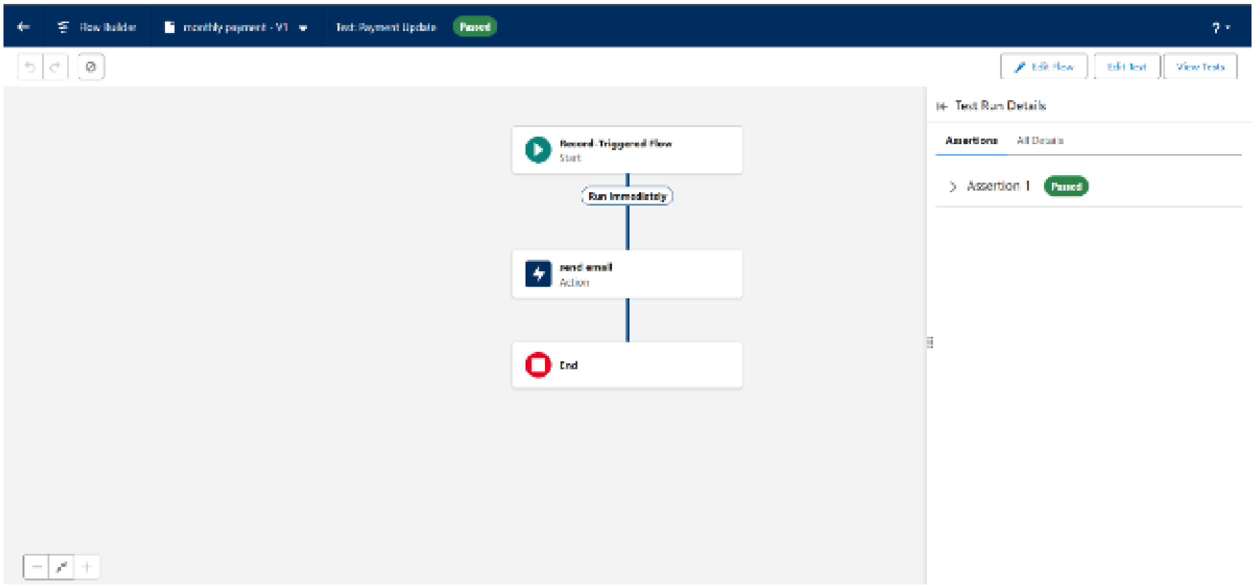
- start date

Filters: All time • All activities • All types

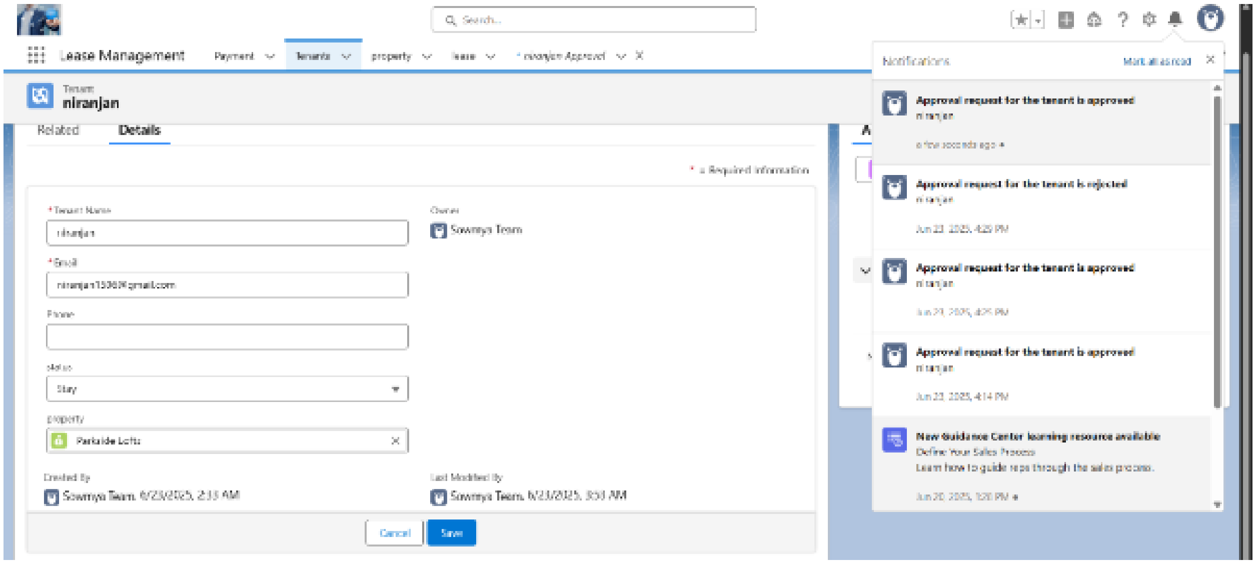
No activities to show.
Get started by sending an email, scheduling a task, and more.

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

Test flows on payment update



Approval process validated through email alerts and status updates



Tenant
niranjan

* = Required Information

| | |
|---|---|
| * Tenant Name | niranjan |
| * Email | niranjan1536@gmail.com |
| Phone | |
| status | Stay |
| property | Parkside Lofts |
| Owner | Sowmya Team |
| Created By | Sowmya Team, 6/23/2025, 2:13 AM |
| Last Modified By | Sowmya Team, 6/23/2025, 3:50 AM |

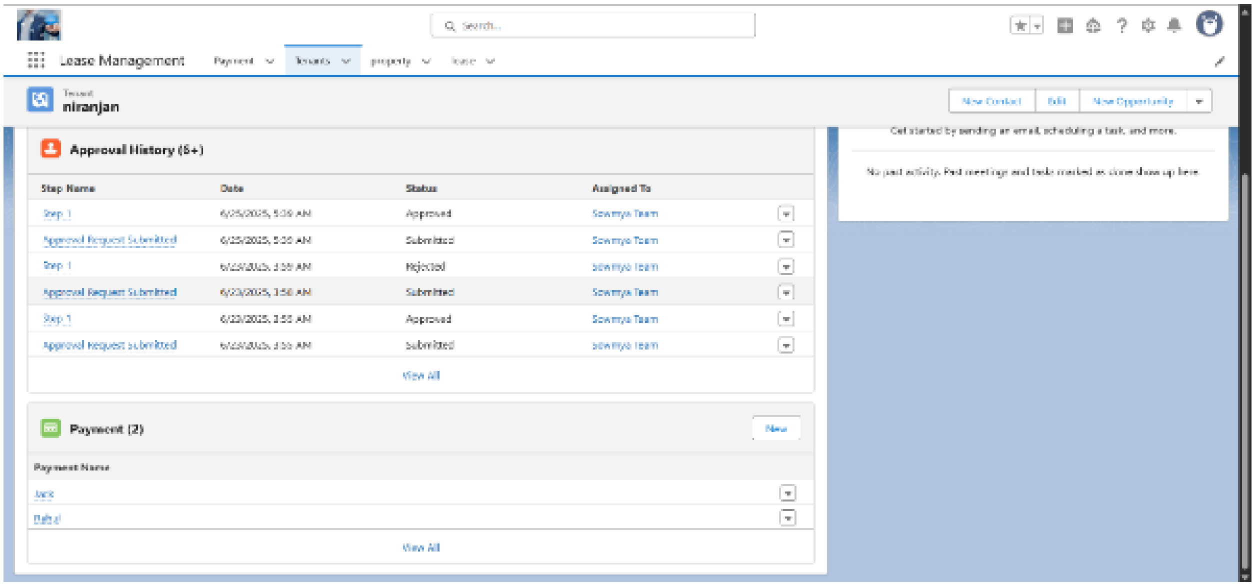
Approval request for the tenant is approved
niranjan
a few seconds ago

Approval request for the tenant is rejected
niranjan
Jun 23, 2025, 4:20 PM

Approval request for the tenant is approved
niranjan
Jun 23, 2025, 4:25 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, 1:20 PM



Approval History (5+)

| Step Name | Date | Status | Assigned To |
|---|---|---|---|
| Step 1 | 6/25/2025, 5:39 AM | Approved | Sowmya Team |
| Approval Request Submitted | 6/25/2025, 5:30 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, 3:58 AM | Approved | Sowmya Team |
| Approval Request Submitted | 6/23/2025, 3:56 AM | Submitted | Sowmya Team |

View All

Payment (2)

| Payment Name |
|---|
| Jack |
| Rahul |

View All

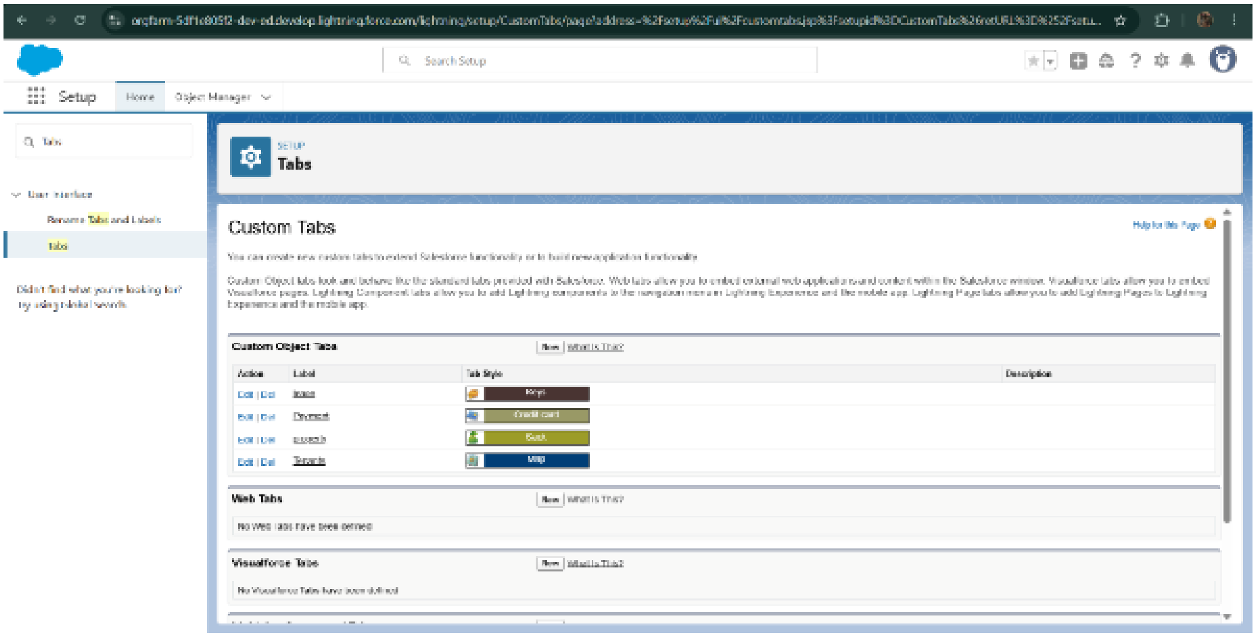
Get started by sending an email, scheduling a task, and more.

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

# RESULTS

## Output Screenshots

Tabs for Property, Tenant, Lease, Payment


orgfarm-5df1c80512-dev-ed.develop.lightning.force.com/lightning/setup/CustomTabs/page?address=%2Fsetup%2Fui%2Fcustomtabs.jsp%3Fsetupid%3DCustomTabs%26retURL%3D%252Fsetu...
Search Setup
Setup
Home
Object Manager
Tabs
User Interface
Rename Tabs and Labels
Tabs
Didn't find what you're looking for? Try using Global Search.
SETUP
Tabs
Help for this Page

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Custom Object Tabs

| Action | Label | Tab Style | Description |
|---|---|---|---|
| Edit \| Del | lease | Keys | |
| Edit \| Del | Payment | Credit card | |
| Edit \| Del | property | Bank | |
| Edit \| Del | Tenants | Map | |

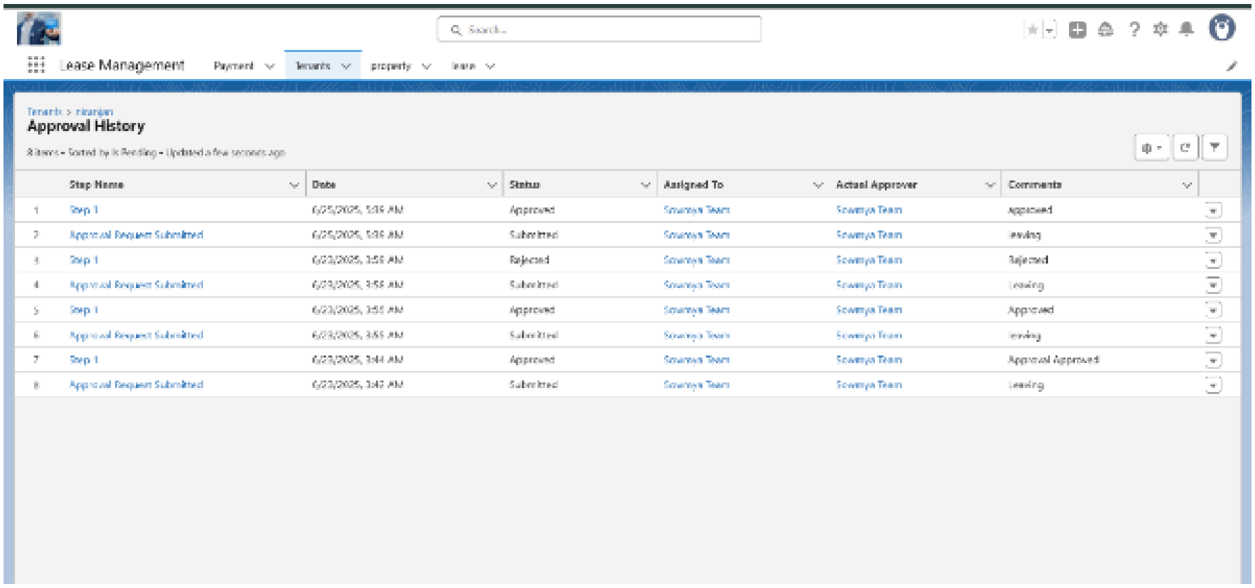
Web Tabs

No Web Tabs have been defined

Visualforce Tabs

No Visualforce Tabs have been defined

Email alerts



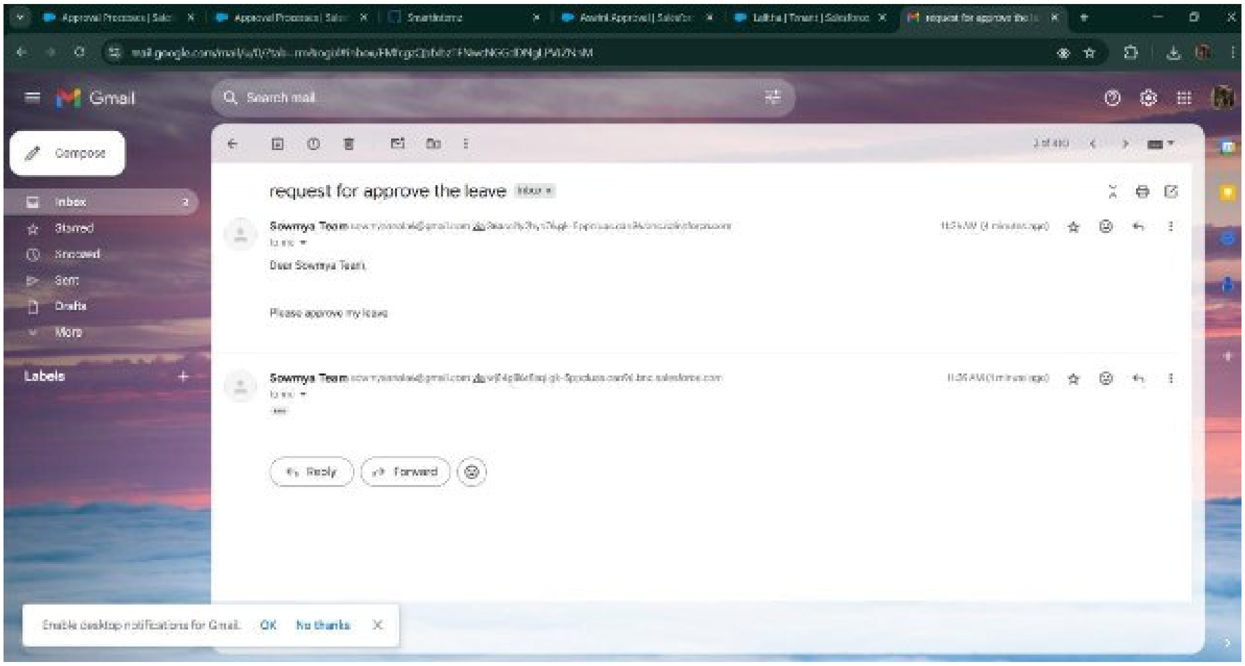
Tenants > niranjan

Approval History

8 items • Sorted by Is Pending • Updated a few seconds ago

|  | 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 |

Request for approve the leave



request for approve the leave Inbox

Sowmya Team
to me

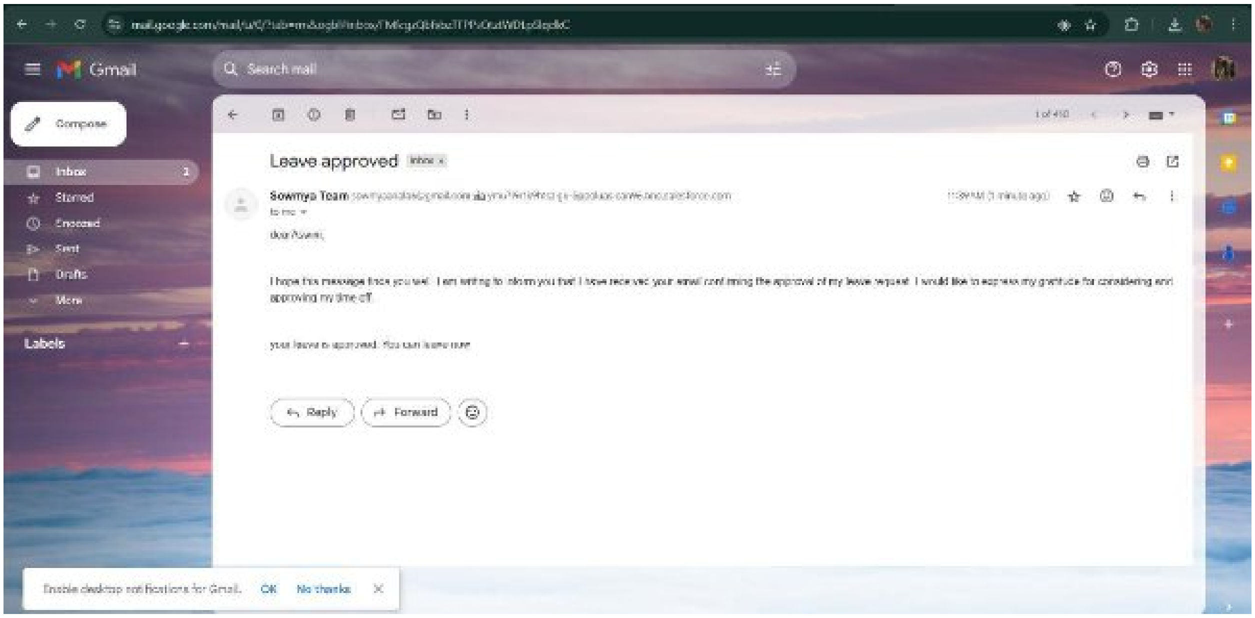
Dear Sowmya Team,

Please approve my leave

Sowmya Team
to me

Enable desktop notifications for Gmail. OK No thanks

Leave approved



Leave approved

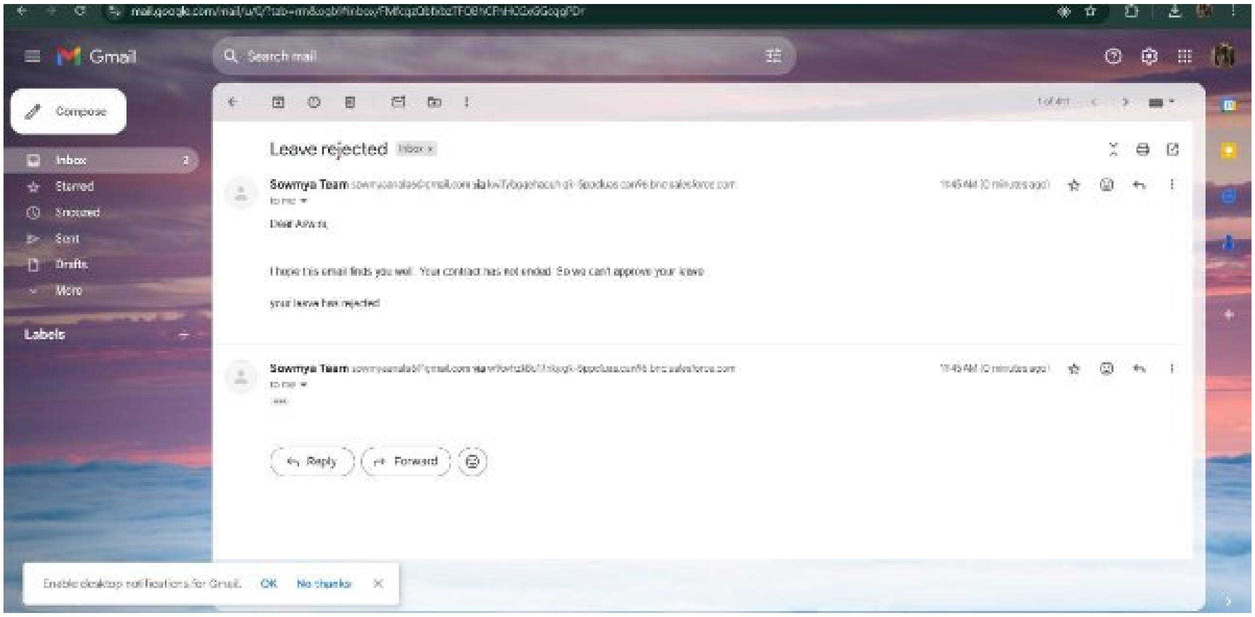
Sowmya Team

dear Aswini,

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

Leave rejected



Leave rejected

Sowmya Team

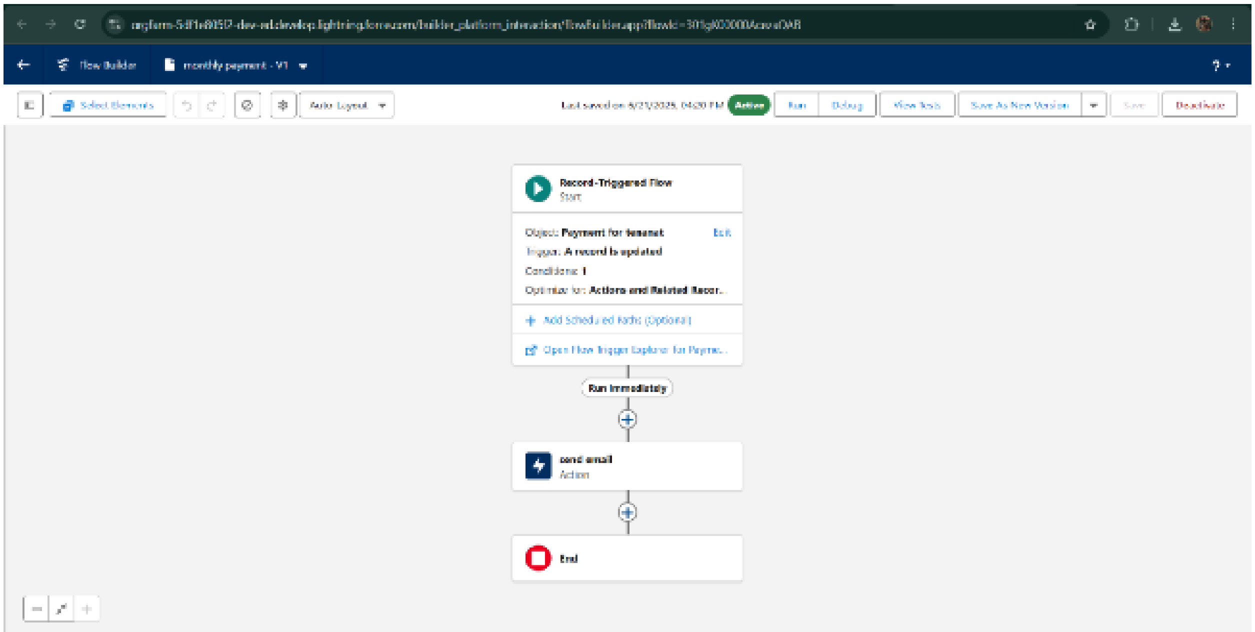
Dear Aswini,

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

your leave has rejected

Sowmya Team

Flow runs



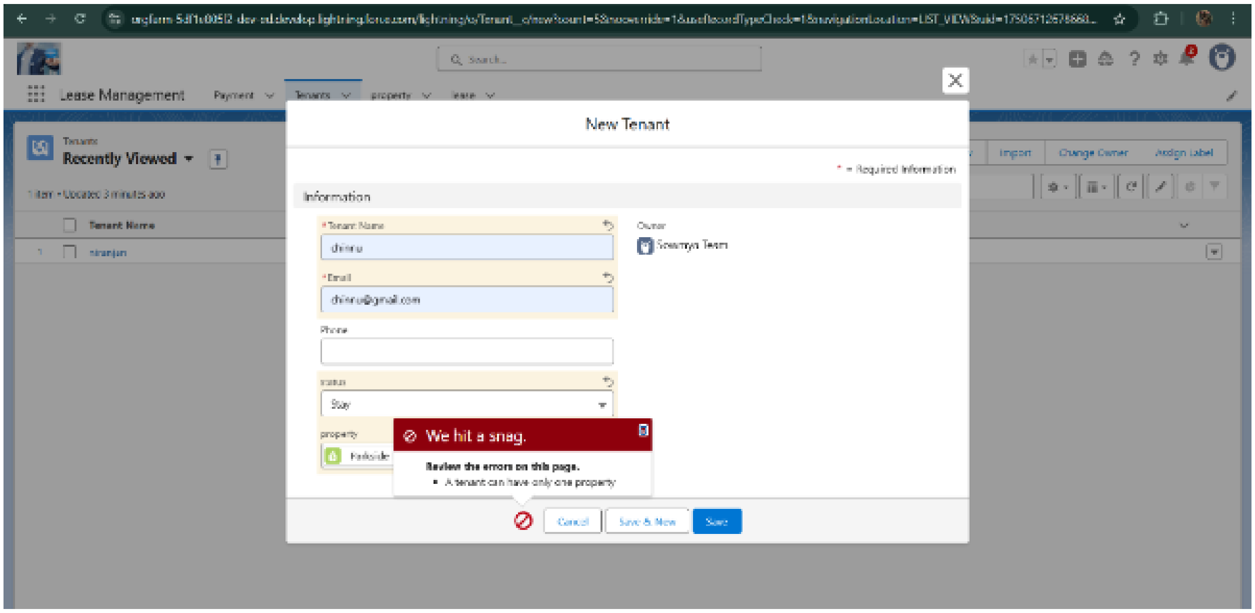
Record-Triggered Flow
Start

Object: Payment for tenant
Trigger: A record is updated
Conditions: 1
Optimize for: Actions and Related Recor...

send email
Action

End

## Trigger error messages



New Tenant

* = Required Information

Information

*Tenant Name: chinnu

*Email: chinnu@gmail.com

Phone:

status: Stay

property: Parkside

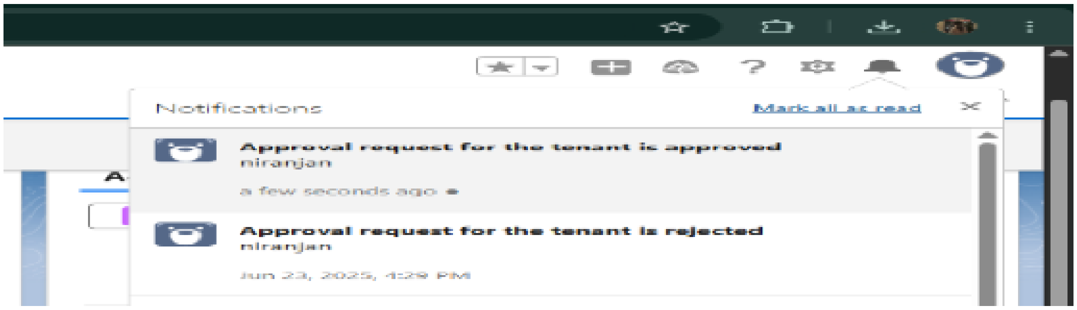
Owner: Sowmya Teen

We hit a snag.

Review the errors on this page.

- A tenant can have only one property

## Approval process 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

# ADVANTAGES & DISADVANTAGES

| ADVANTAGE | DISADVANTAGE |
|---|---|
| • Lower upfront cost | Higher Long-term costs |
| • Increased flexibility | No ownership or equity |
| • Reduced responsibility | Lack of control |

# 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});

        }

    }

}
```