

LEASE MANAGEMENT

College Name: Bharathidasan college of arts and science

College Code: Bru3d

TEAM ID: NM2025TMID24711

TEAM MEMBERS:

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Team Member 3: Mythreyan.V

Email id: myth8349@gmail.com


Team Member 4: Ramkumar.T

Email id: ramkumar051760@gmail.com

DEVELOPMENT PHASE

Creating developer account

By using this URL - <https://www.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

Sign up for your Developer Edition

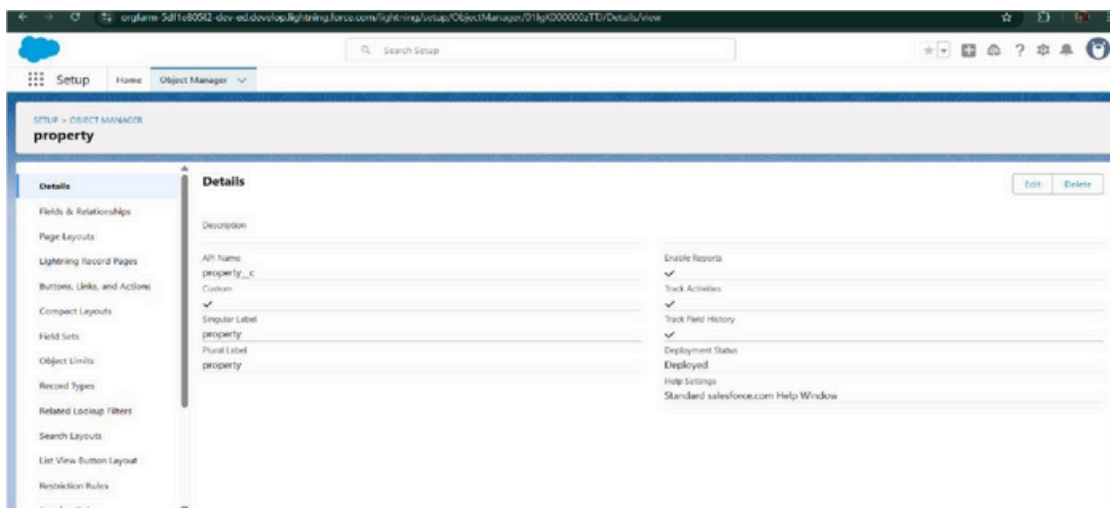
A free Salesforce Platform environment with Agentforce and Data Cloud

First name	Last name
<input type="text" value="Karthikeyan"/>	<input type="text" value="T"/>
Job title	Work email
<input type="text" value="Developer"/>	<input type="text" value="karthikeyant441@"/>
Company	Country/Region
<input type="text" value="Bharathidasan col"/>	<input type="text" value="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

- Created objects: Property, Tenant, Lease, Payment



orgform-5df1e005f2-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01kg000000zT5N/Details/view

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

orgform-5df1e005f2-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01kg000000zT5p/Details/view

Setup Home Object Manager

SETUP > OBJECT MANAGER

lease

Details

- Fields & Relationships
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- 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
leases

Enable Reports

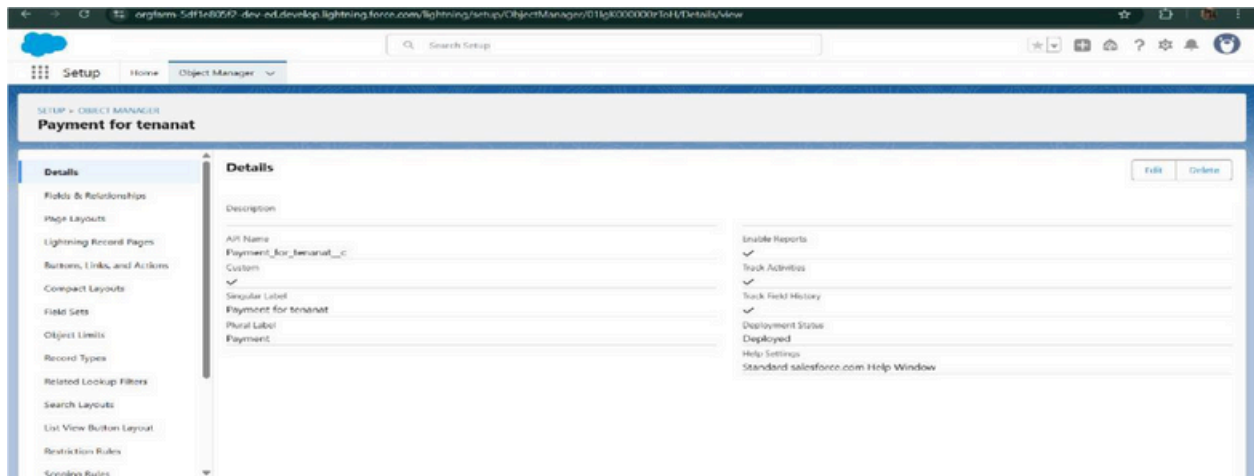
✓ Track Activities

✓ Track Field History

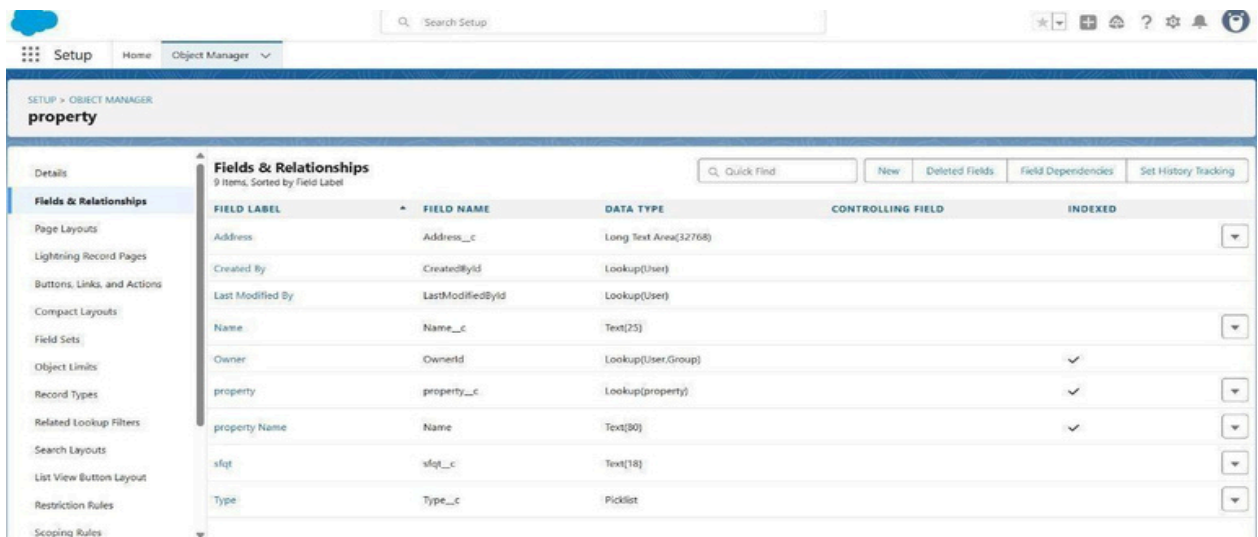
Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete



- Configured fields and relationships



Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Payment for tenanat

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

Fields & Relationships

7 Items, Sorted by Field Label

Quick Find

New

Deleted Fields

Field Dependencies

Set History Tracking

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

Home

Object Manager

Search Setup

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

Scoping Rules

Fields & Relationships

7 Items, Sorted by Field Label

Quick Find

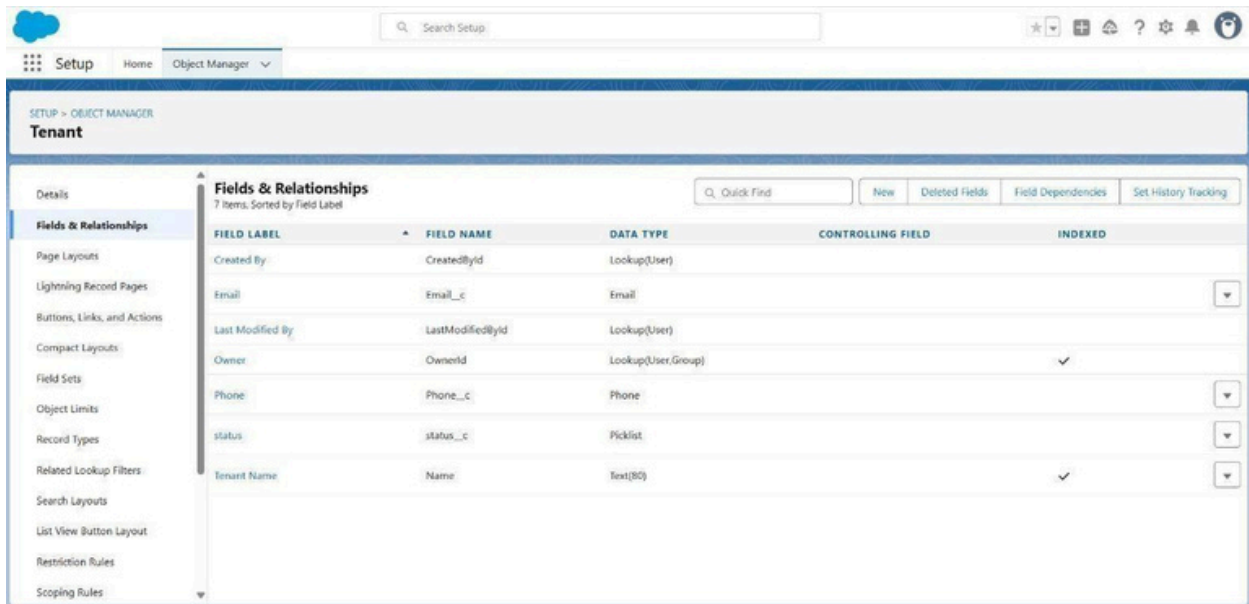
New

Deleted Fields

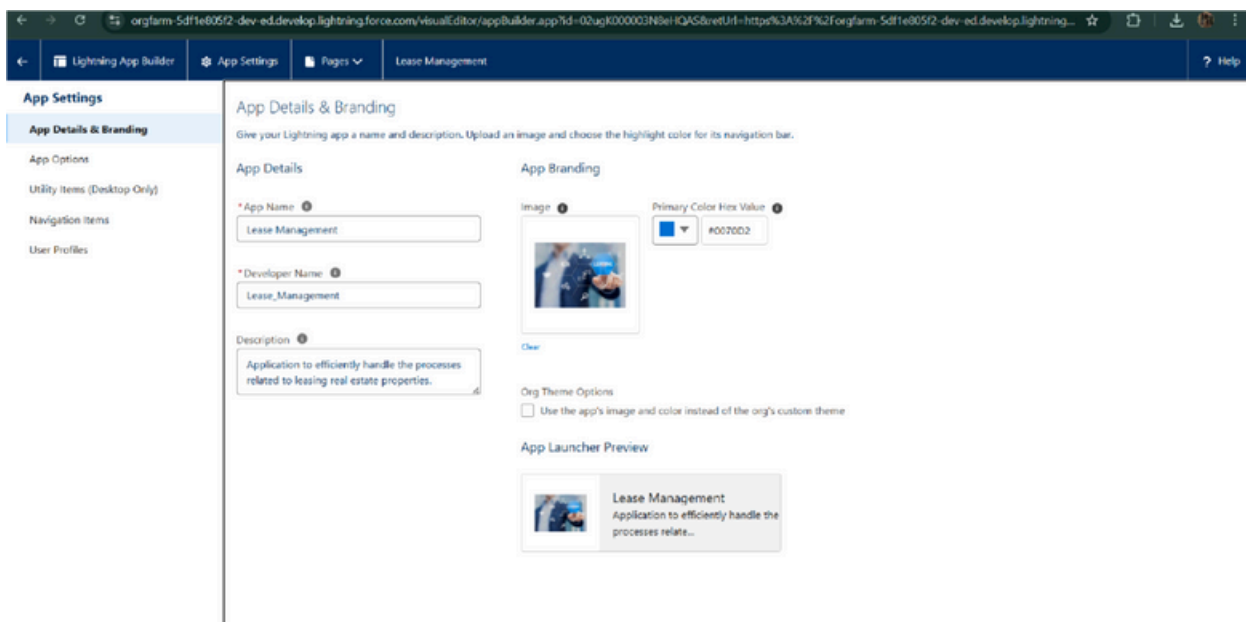
Field Dependencies

Set History Tracking

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		



- Developed Lightning App with relevant tabs



← 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

Create

Type to filter list...

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)

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

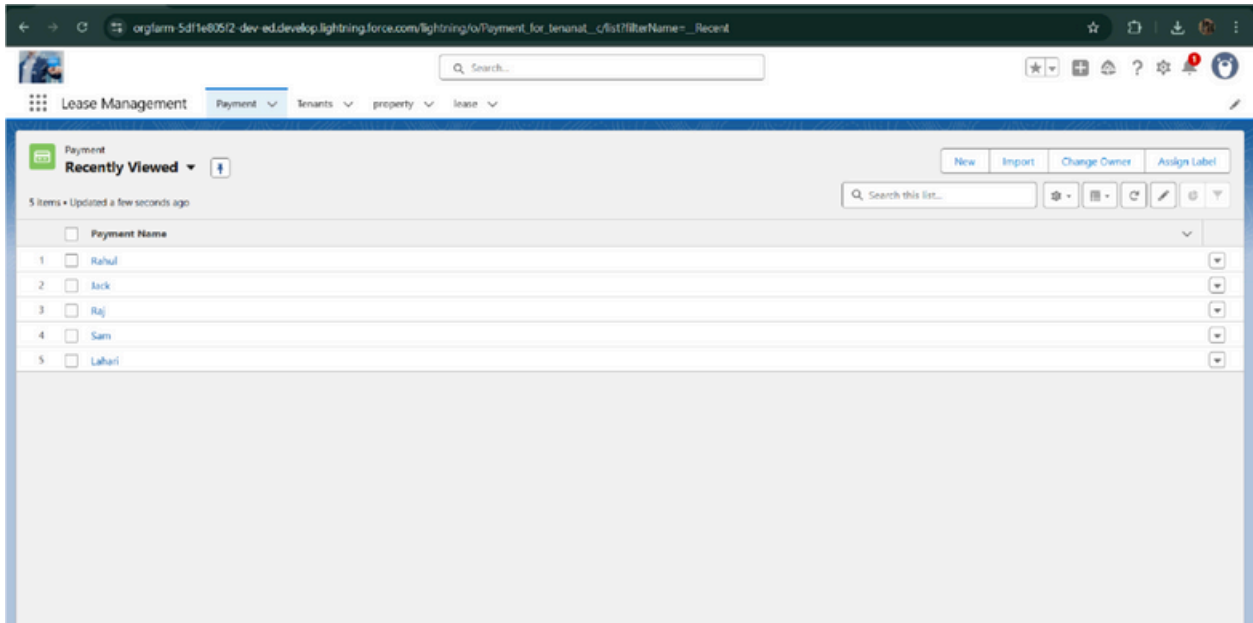
Custom: Sales Profile

Custom: Support Profile

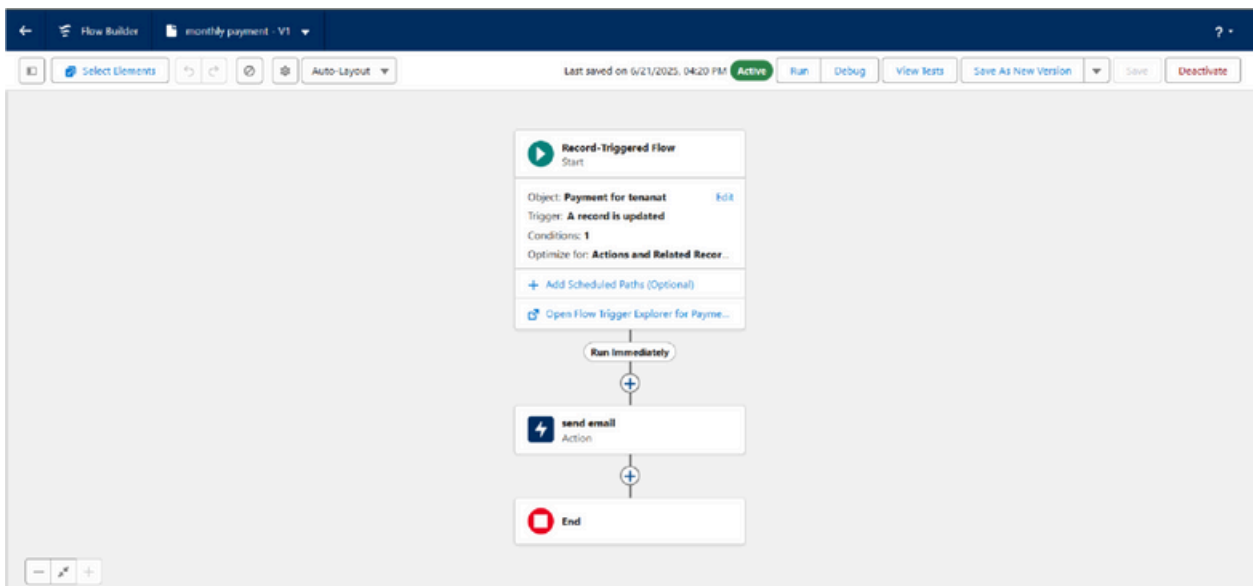
Customer Community Login User

Selected Profiles

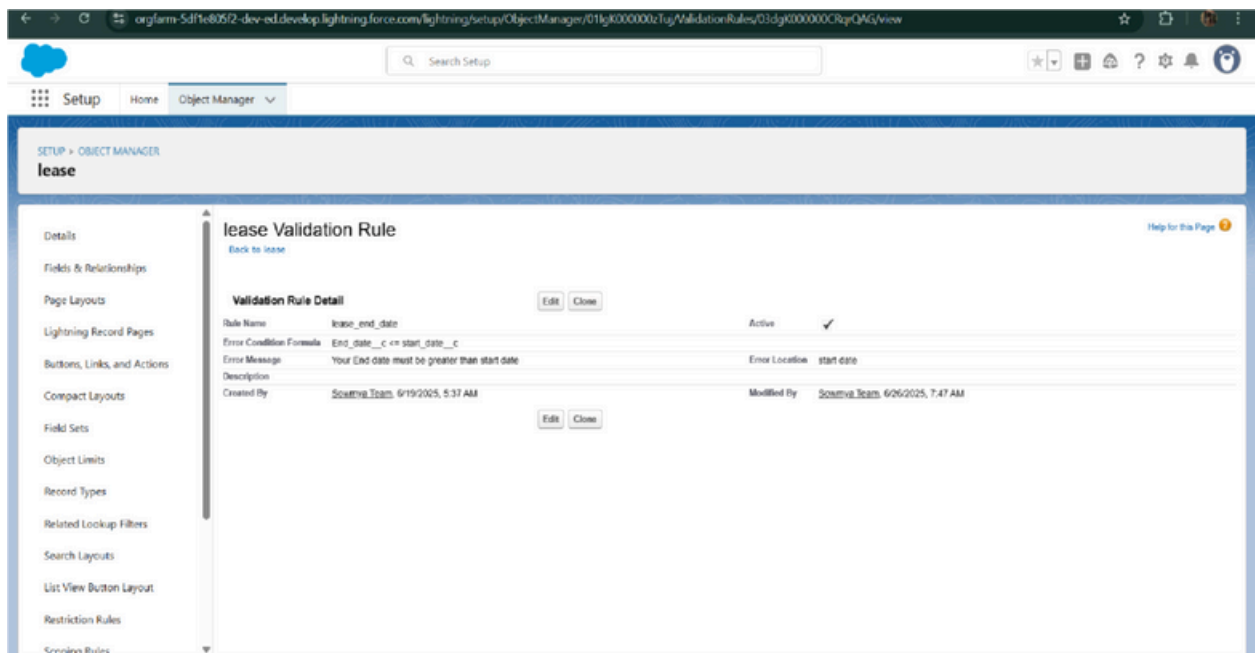
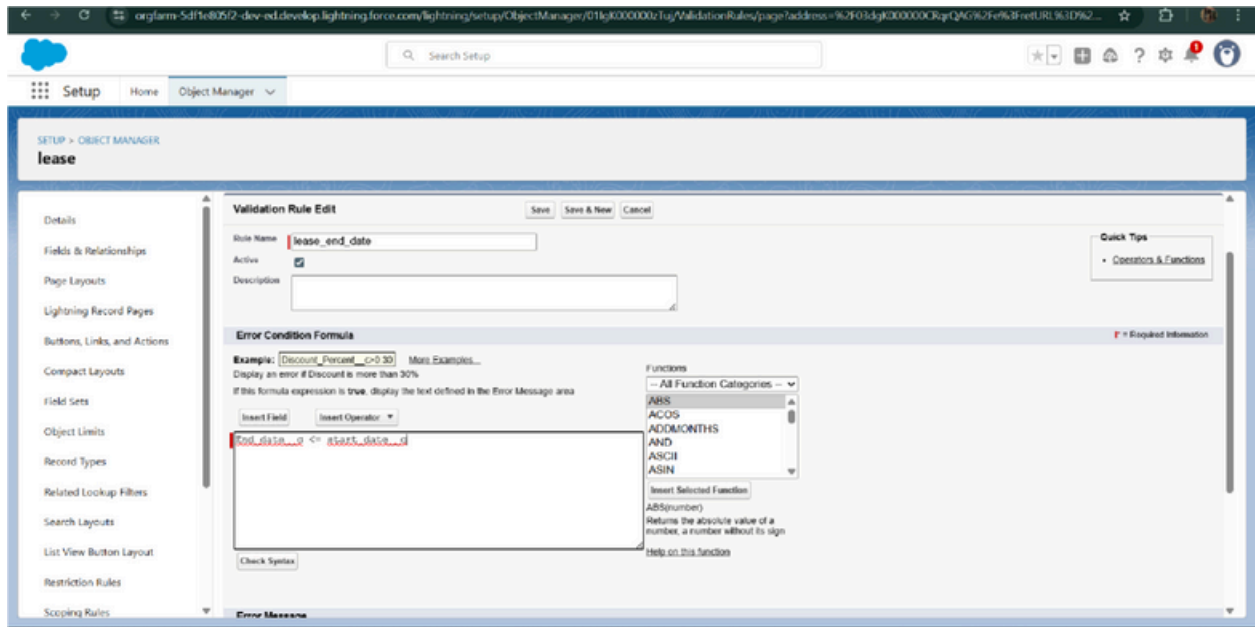
System Administrator



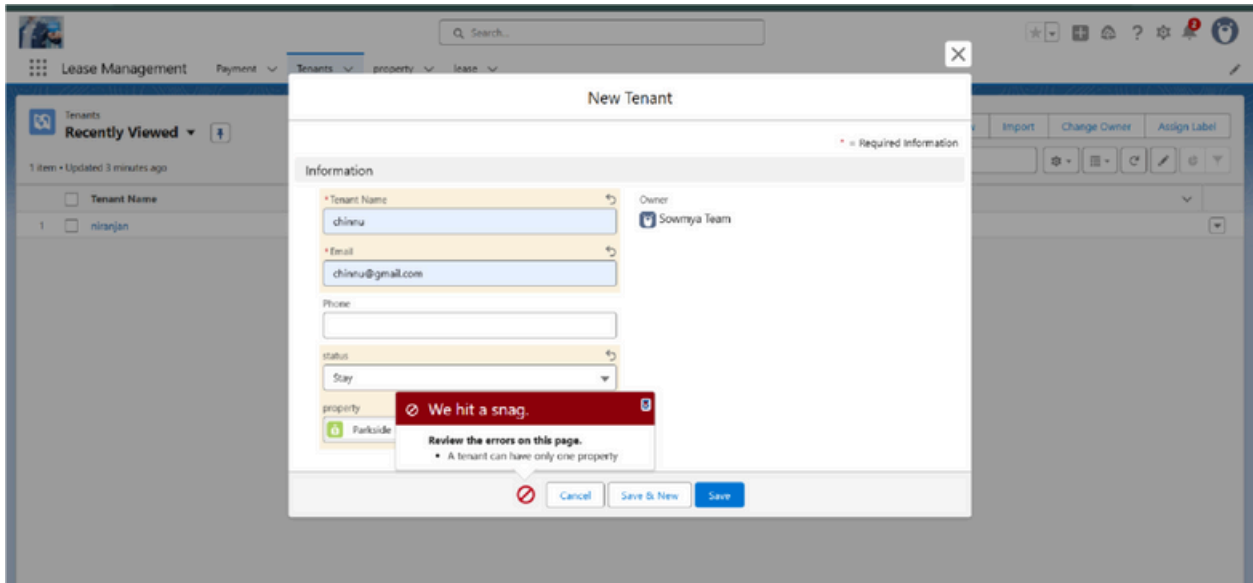
- Implemented Flows for monthly rent and payment success



- To create a validation rule to a Lease Object



- Added Apex trigger to restrict multiple tenants per property



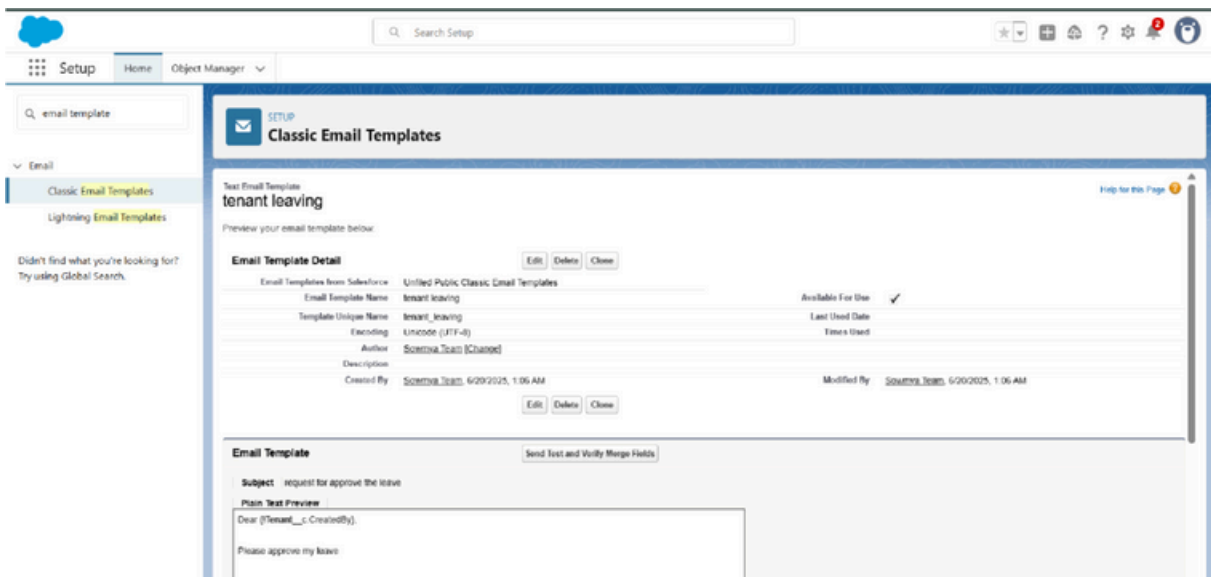
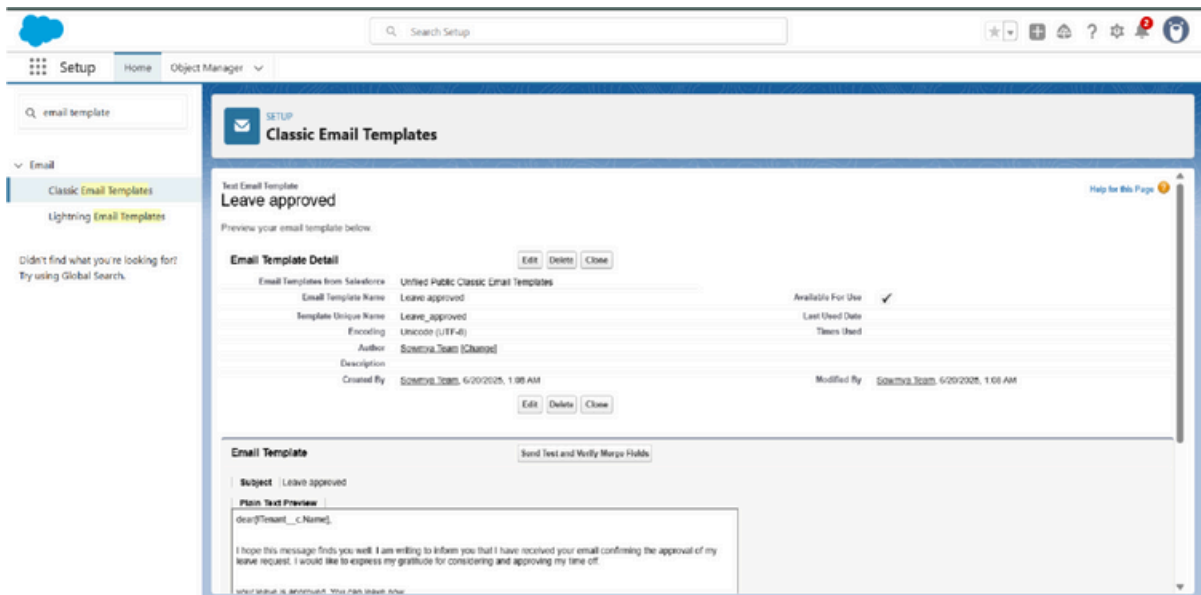
- Scheduled monthly reminder emails using Apex class

```

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 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     }
36 }

```

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



Setup

Home

Object Manager

Search Setup

Setup

Classic Email Templates

Lightning Email Templates

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

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

Template Unique Name

Leave_rejected

Encoding

Unicode (UTF-8)

Author

Scottnv.Team (Chatter)

Description

Created By

Scottnv.Team 6/20/2025, 1:11 AM

Modified By

Scottnv.Team 6/20/2025, 1:11 AM

Available For Use

☒

Last Used Date

Times Used

Edit

Delete

Clone

Email Template

Send Test and Verify Merge Fields

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

Setup

Home

Object Manager

Search Setup

Setup

Classic Email Templates

Lightning Email Templates

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

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

Template Unique Name

Tenant_Email

Encoding

Unicode (UTF-8)

Author

Scottnv.Team (Chatter)

Description

Created By

Scottnv.Team 6/20/2025, 1:12 AM

Modified By

Scottnv.Team 6/20/2025, 1:12 AM

Available For Use

☒

Last Used Date

Times Used

Edit

Delete

Clone

Email Template

Send Test and Verify Merge Fields

Subject

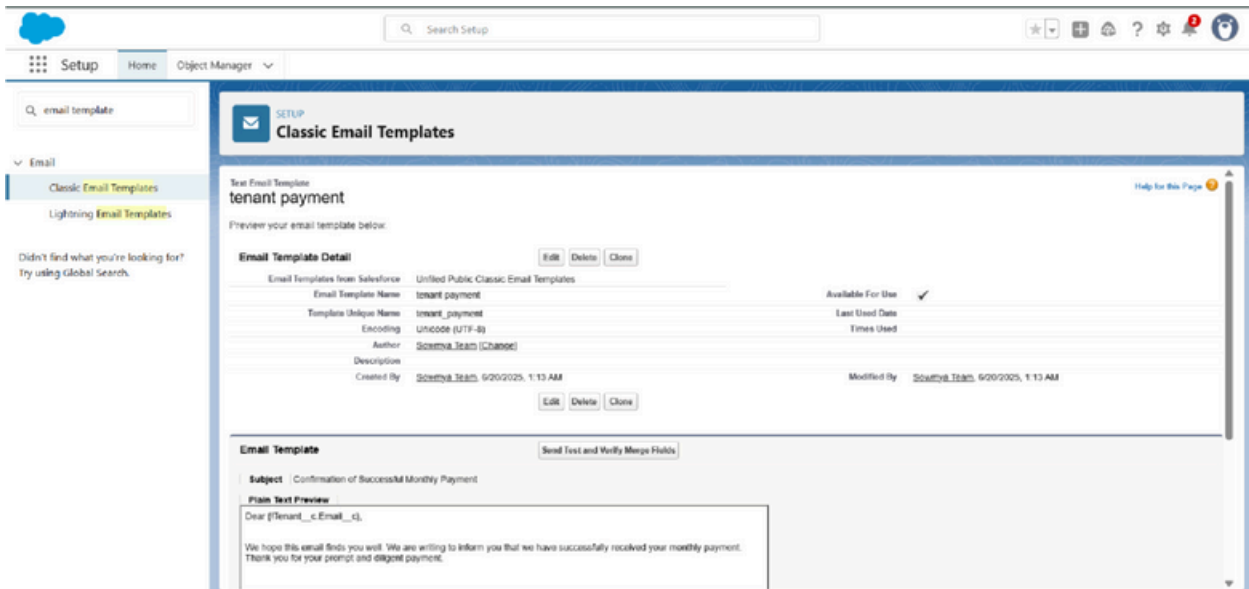
Urgent: Monthly Rent Payment Reminder

Plain Text Preview

Dear {Tenant__c.Name},

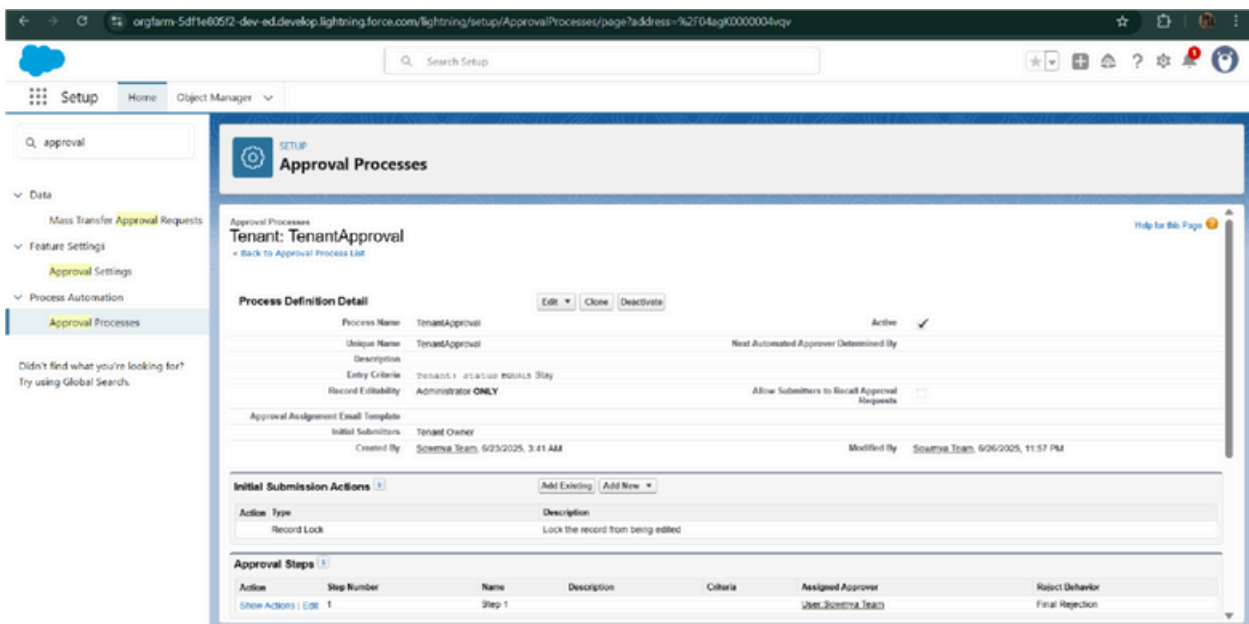
I trust this email finds you well. We appreciate your continued tenancy at our property and I hope you have been comfortable in your residence.

This communication is a friendly reminder regarding your monthly rent payment. Please contact us immediately if you have any questions or need assistance.

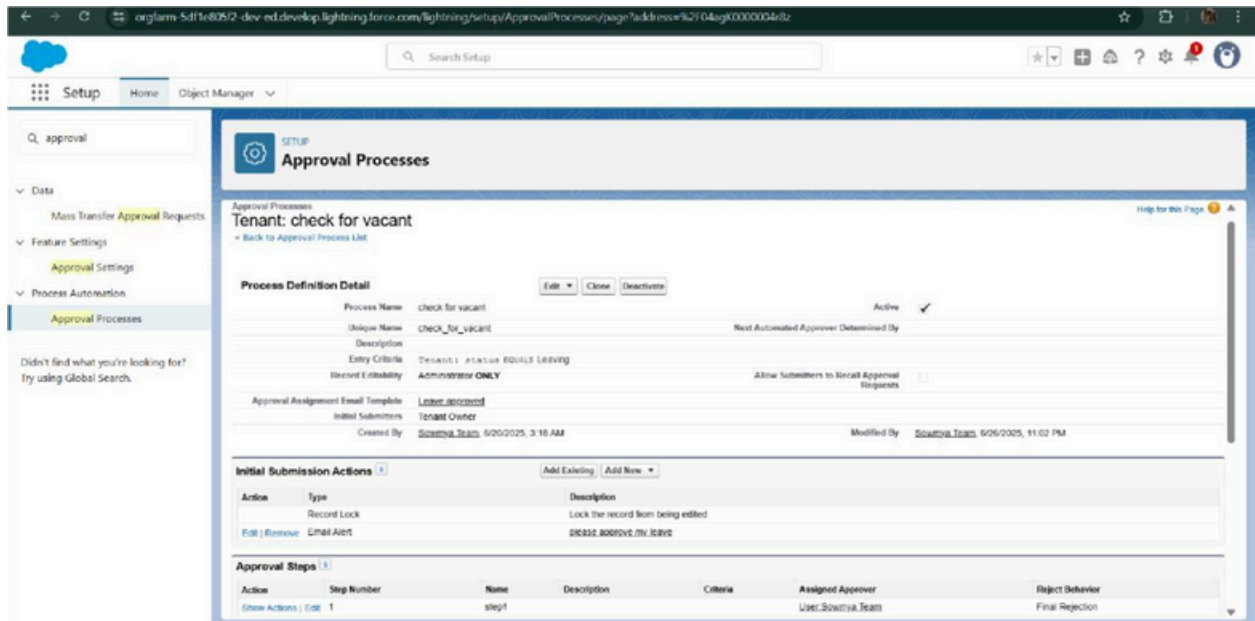


● Approval Process creation

For Tenant Leaving:

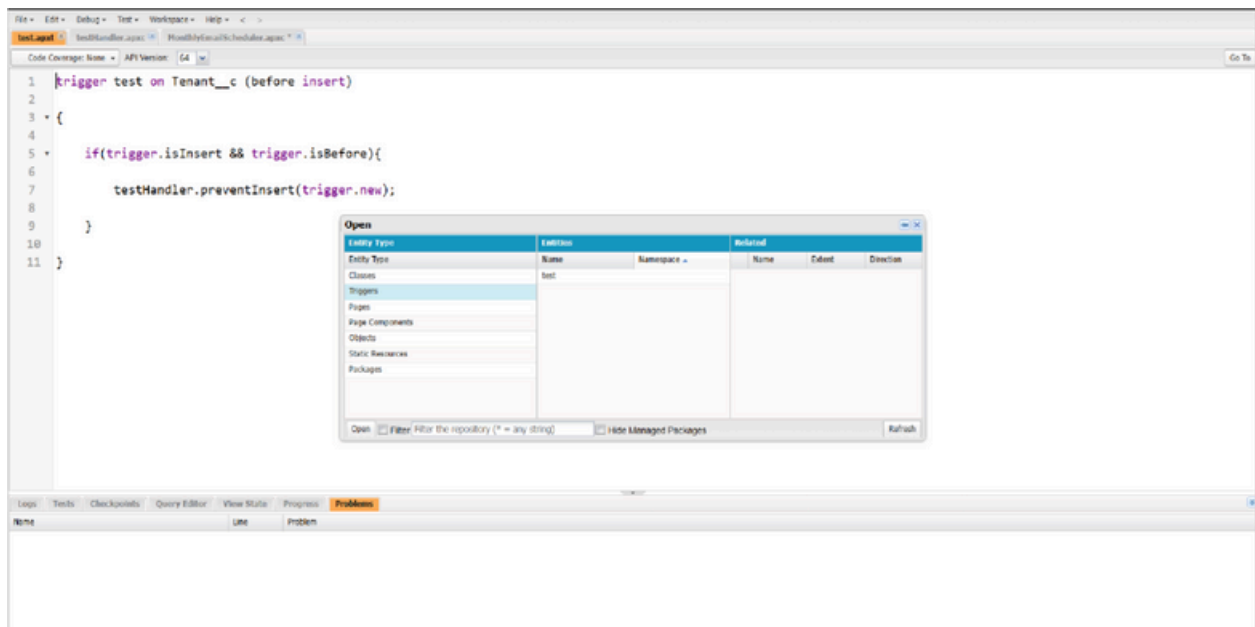


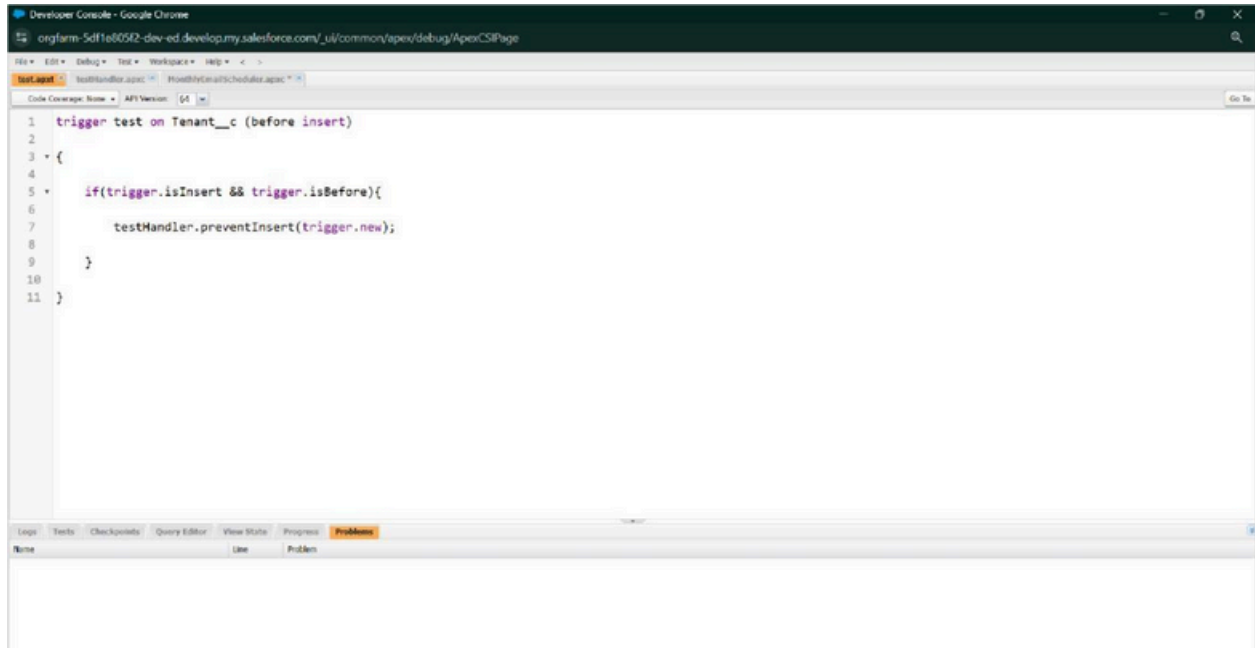
For Check for Vacant:



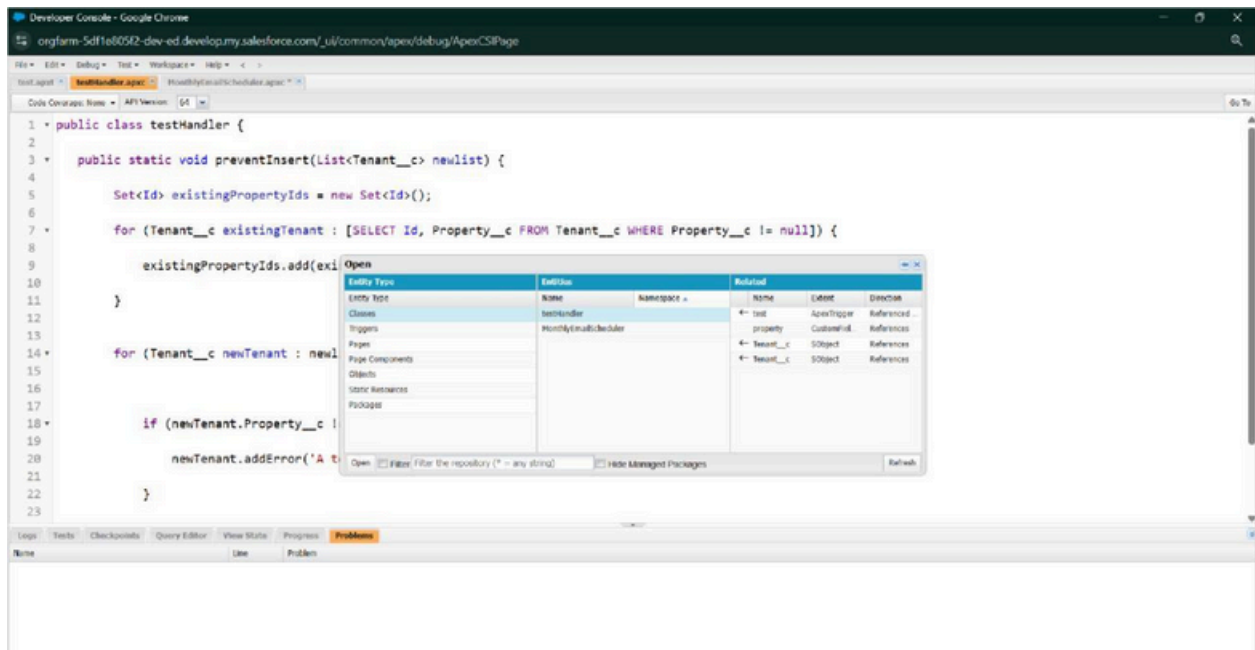
● Apex Trigger

Create an Apex Trigger





Create an Apex Handler class



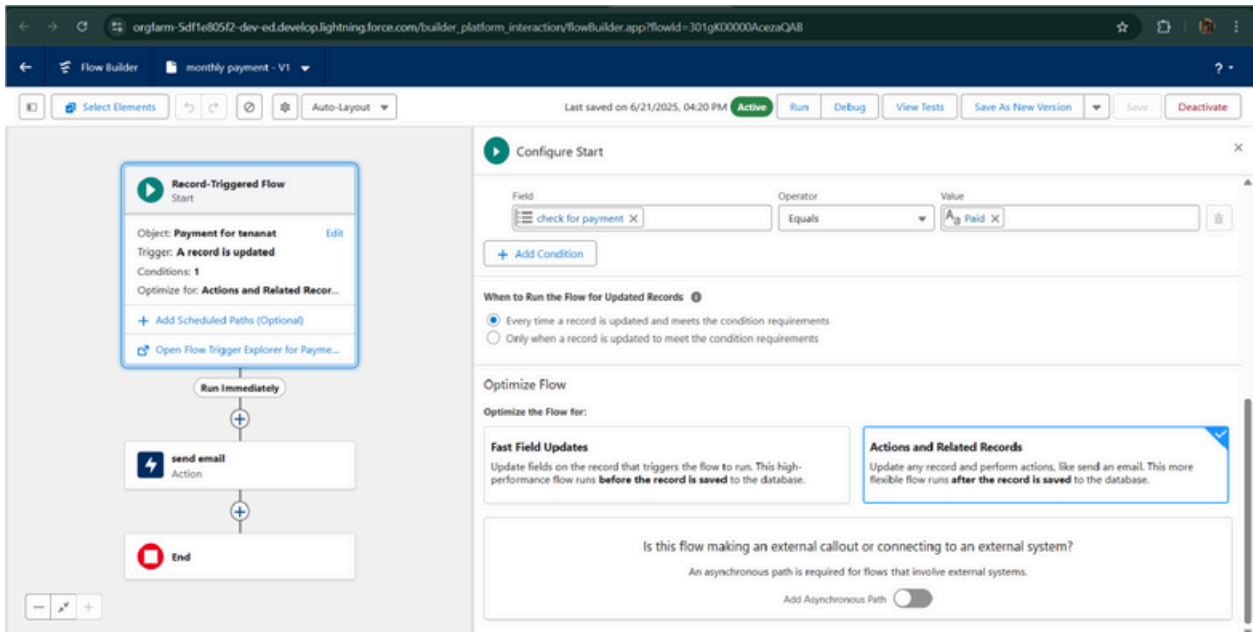
```
Developer Console - Google Chrome
orgfarm-Sdf1e0502-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSPage

Test.apex | testHandler.apex | testHandler.apex
Code Coverage: None | API Version: 54

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
18       if (newTenant.Property__c != null && existingPropertyIds.contains(newTenant.Property__c)) {
19
20         newTenant.addError('A tenant can have only one property');
21
22       }
23
24     }
25
26   }
27
28 }

Logs | Tests | Checkpoints | Query Editor | View State | Progress | Problems
Name | Line | Problem
```

• FLOWS



Record-Triggered Flow
Start

Object: **Payment for tenant** [Edit](#)

Trigger: **A record is updated**

Conditions: **1**

Optimize for: **Actions and Related Records**

[+ Add Scheduled Paths \(Optional\)](#)

[Open Flow Trigger Explorer for Payments](#)

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 tenant

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)

Field Operator Value

- 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    public static void sendMonthlyEmails() {
16
17        List<Tenant__c> tenants = [SELECT * FROM Tenant__c];
18
19        for (Tenant__c tenant : tenants) {
20
21            String recipientEmail = tenant.Email__c;
22
23

```

Open

Entity Type	Name	Namespace	Related	Parent	Direction
Classes	MonthlyEmailScheduler				
Triggers					
Pages					
Page Components					
Objects					
Static Resources					
Packages					

Open ☐ Filter the repository (* = any string) ☐ Hide Managed Packages [Refresh](#)

```
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             sendMonthlyEmails();
9         }
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 = 'Hi 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.';
24
25            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
26
27            email.setToAddresses(new String[] {recipientEmail});
28
29            email.setSubject('Monthly Rent Payment Due');
30
31            email.setPlainTextBody(emailContent);
32
33            Messaging.sendEmail(new Messaging.SingleEmailMessage(email));
34
35        }
36    }
37
38 }
```

Schedule Apex class

Setup Home Object Manager

Search Setup

apex

Setup Apex Classes

Apex Class Detail

Name	Namespace Prefix	Status
MonthlyEmailScheduler		Active

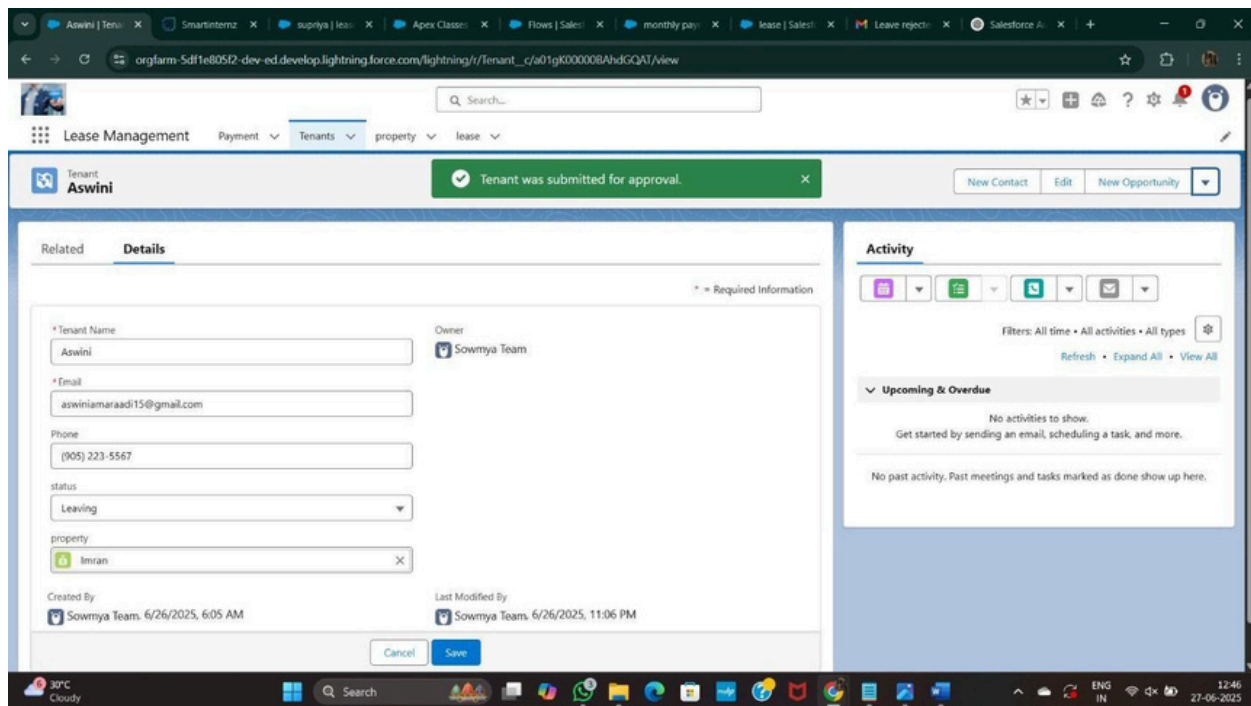
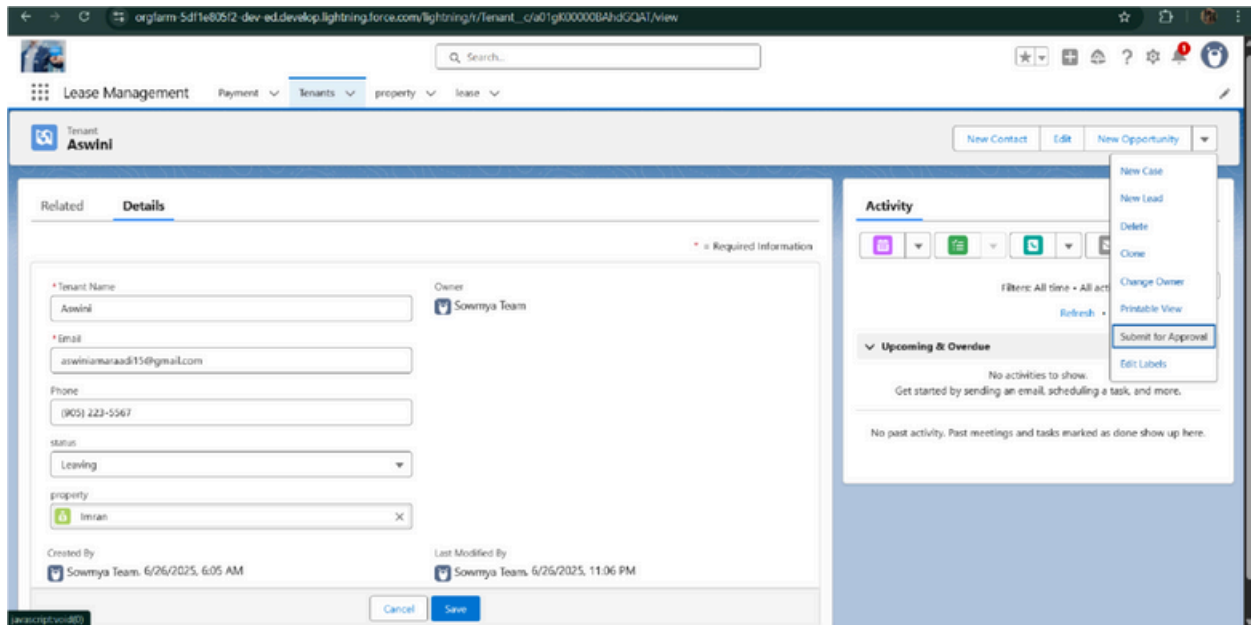
Created By: Soemba Team 6/23/2025, 2:46 AM

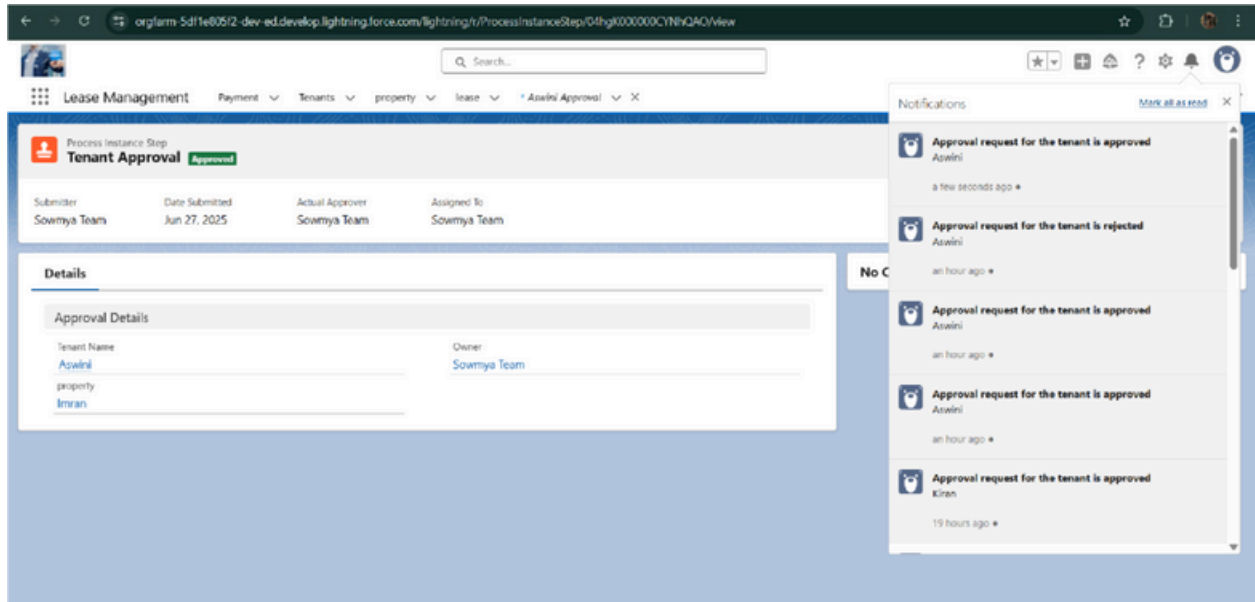
Code Coverage: 0% (0/15)

Last Modified By: Soemba Team 6/23/2025, 2:47 AM

Class Body

```
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             sendMonthlyEmails();
9         }
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) {
```





FUNCTIONAL AND PERFORMANCE TESTING

Performance Testing

- Triggervalidationbyentering duplicate tenant-property records

New Tenant

* = Required Information

Information

* Tenant Name chinu

* Email chinu@gmail.com

Phone

Status Stay

Property Parkside

We hit a snag.

Review the errors on this page.

- A tenant can have only one property

Cancel Save & New Save

- Validation Rule checking

supriya

New Contact Edit New Opportunity

Related Details

* = Required information

* Lease Name supriya

Owner Sowmya Team

start date 6/20/2025

Your End date must be greater than start date.

End date 6/18/2025

Property Search property...

We hit a snag.

Review the following fields

- start date

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

By i Team, 6/26/2025, 7:38 AM

Cancel Save

Activity

Filters: All time • All activities • All types

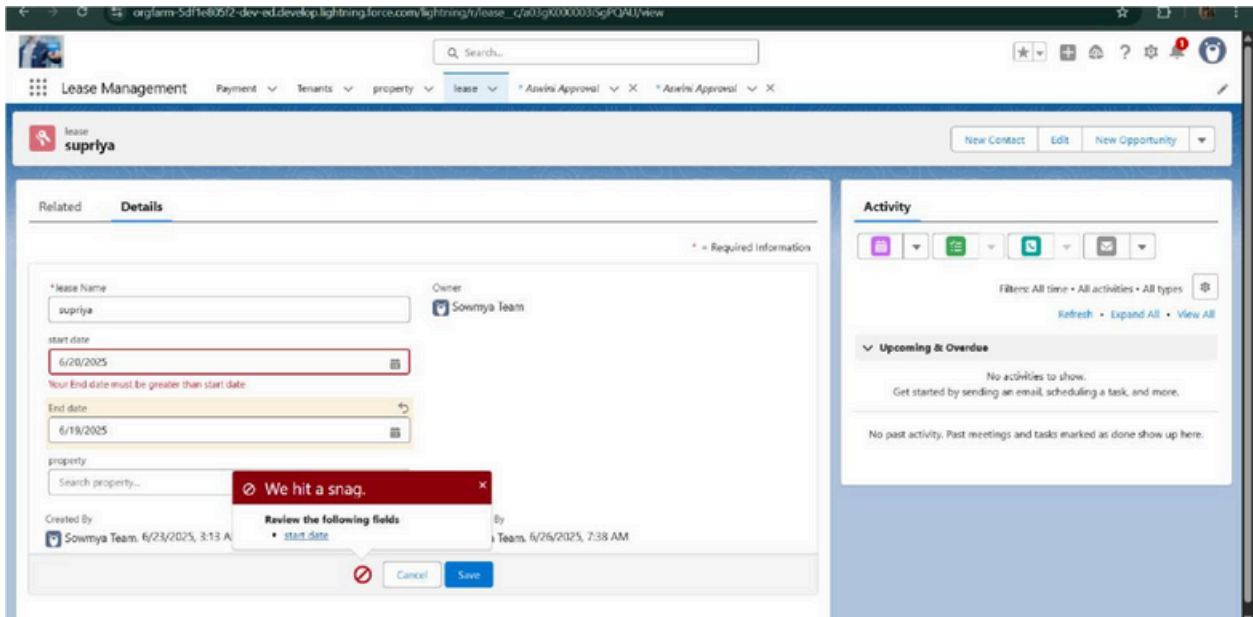
Refresh Expand All View All

Upcoming & Overdue

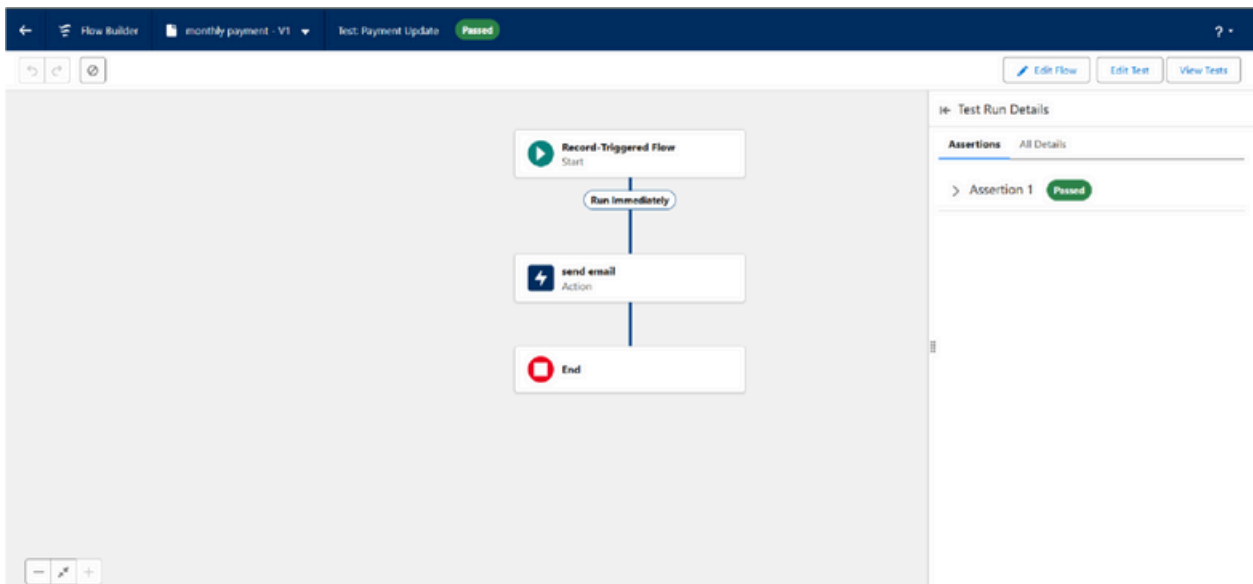
No activities to show.

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

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



- Test flows on payment update



- Approval process validated through email alerts and status updates

Lease Management

Payment

Tenants

property

lease

niranjan Approval

X

Search...

Tenant

niranjan

Related

Details

* Required Information

Tenant Name

niranjan

Email

niranjan1506@gmail.com

Phone

status

Stay

property

Parkside Lofts

Owner

Sowmya Team

Created By

Sowmya Team, 6/23/2025, 2:33 AM

Last Modified By

Sowmya Team, 6/23/2025, 3:58 AM

Cancel

Save

Notifications

Mark all as read

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, 4:25 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, 1:28 PM

Lease Management

Payment

Tenants

property

lease

Search...

Tenant

niranjan

New Contact

Edit

New Opportunity

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

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

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

View All

Payment (2)

New

Payment Name

Jack

Payment Name

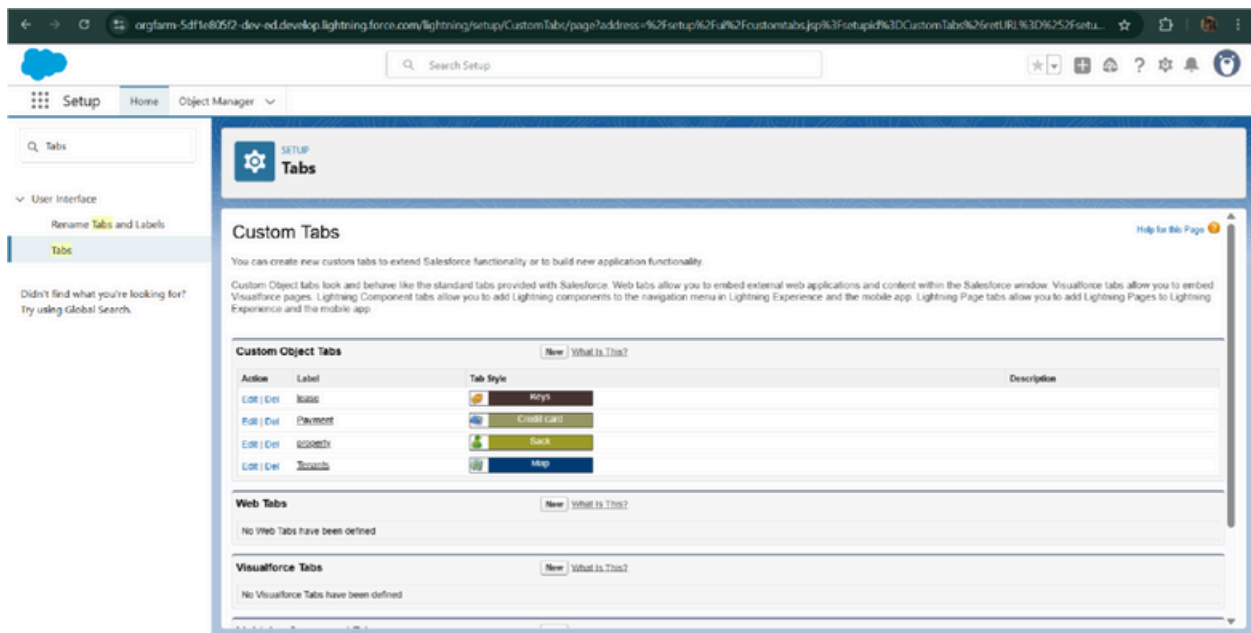
Rahul

View All

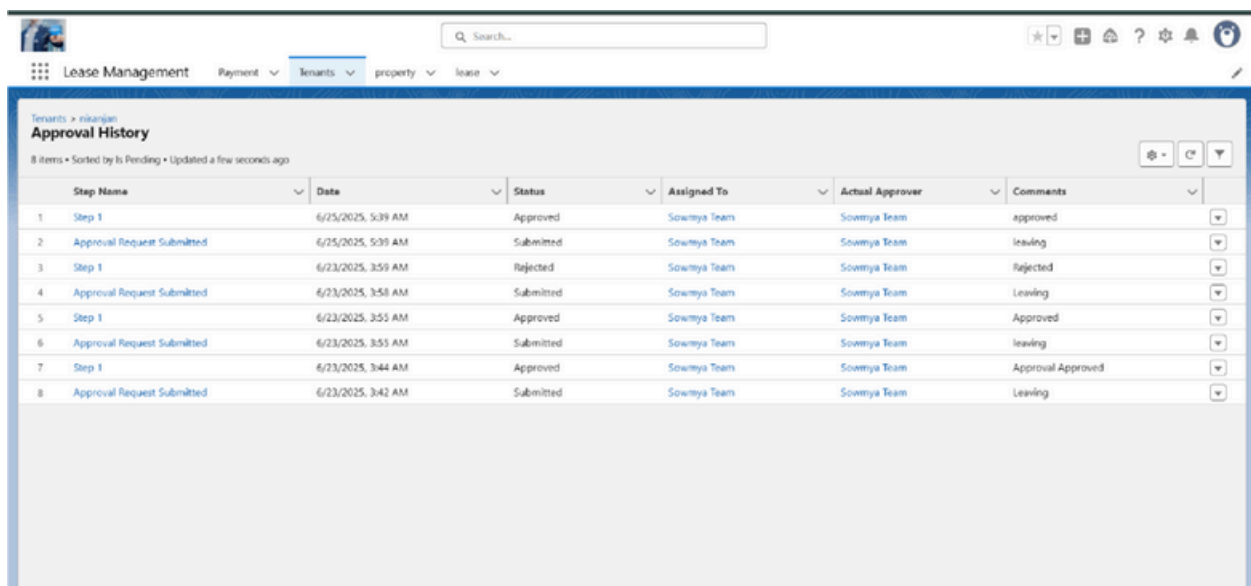
RESULTS

Output Screenshots

- Tabs for Property, Tenant, Lease, Payment



- Email alerts



- Request for approve the leave