

LEASE MANAGEMENT

COLLEGE NAME : CHIKKANNA GOVERNMENT ARTS COLLEGE

COLLEGE CODE : BRU06

TEAM ID : NM2025TMID26211

TEAM MEMBERS :

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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.



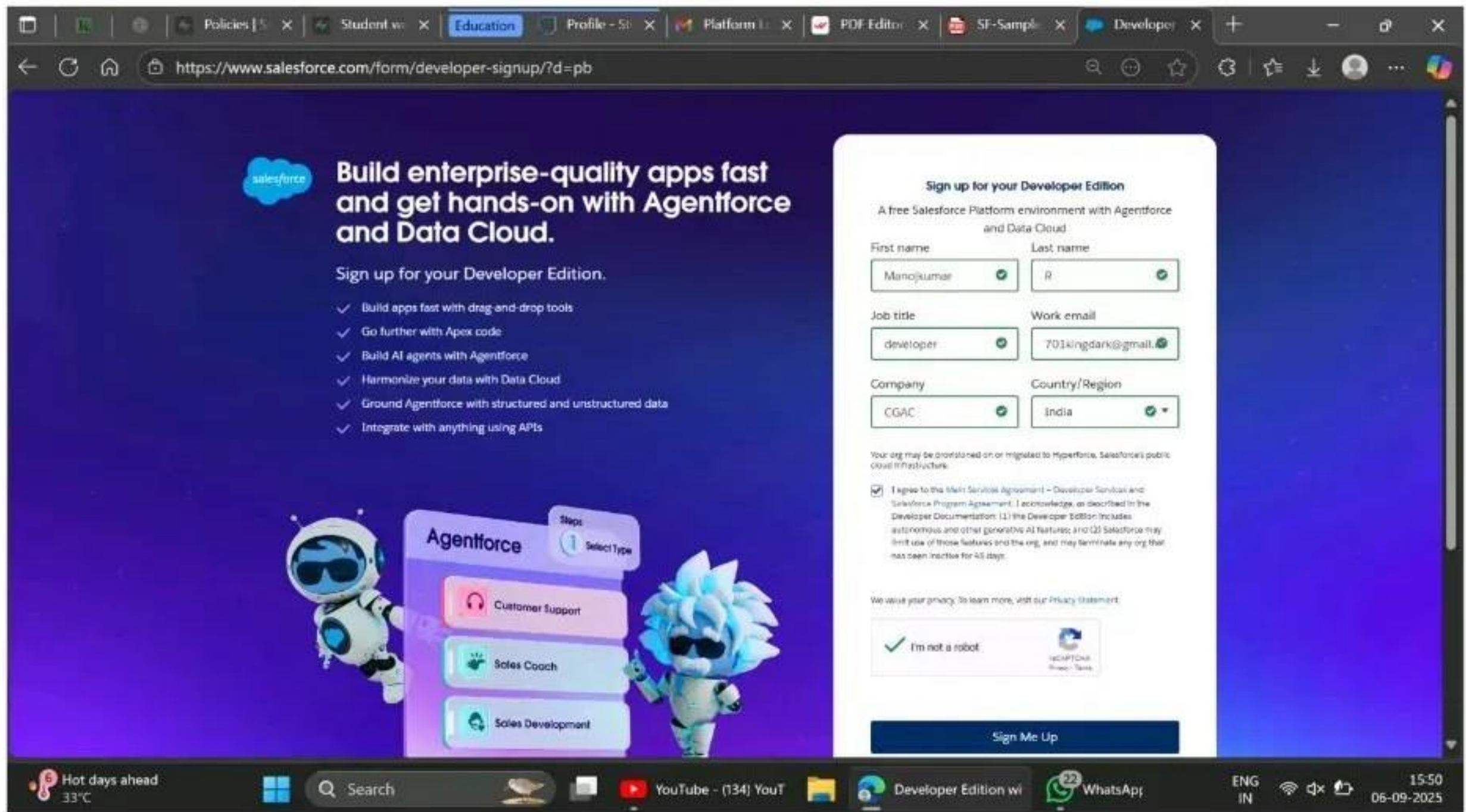
1.2 Purpose

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.

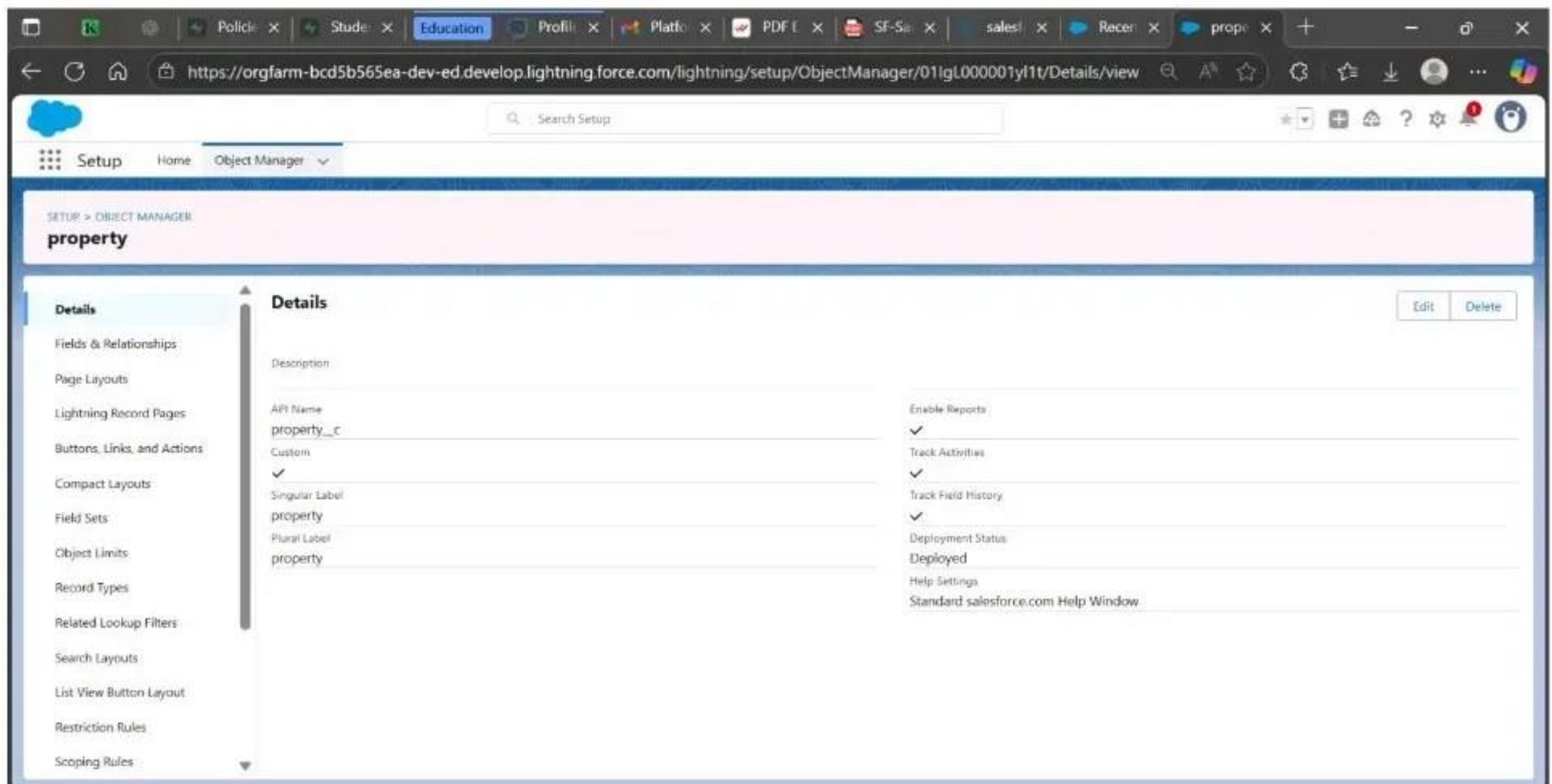
DEVELOPMENT PHASE

Creating Developer Account:

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



- Created objects: Property, Tenant, Lease, Payment



Browser tabs: Policies, Student, Education, Profile, Platform, PDF, SF-S, sale, Recent, proper, Tenant, lea.

Address bar: <https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ylUv/Details/view>

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

Tenant

Details Edit Delete

Description	
API Name	Tenants__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

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

Browser tabs: Policies, Student, Education, Profile, Platform, PDF, SF-San, salesfor, Recent, proper, Tenant, lea.

Address bar: <https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL000001ylUj/Details/view>

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

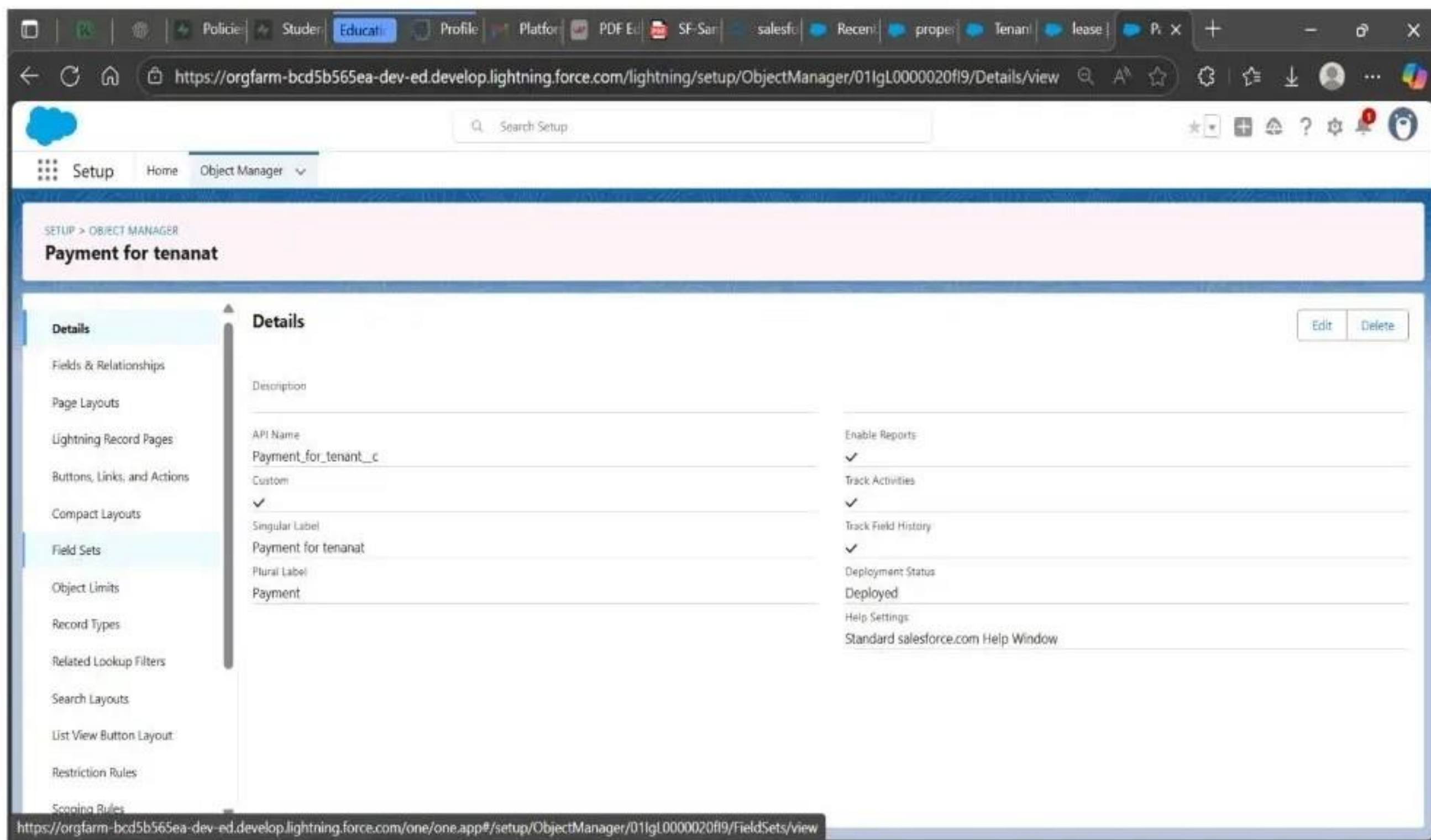
lease

Details Edit Delete

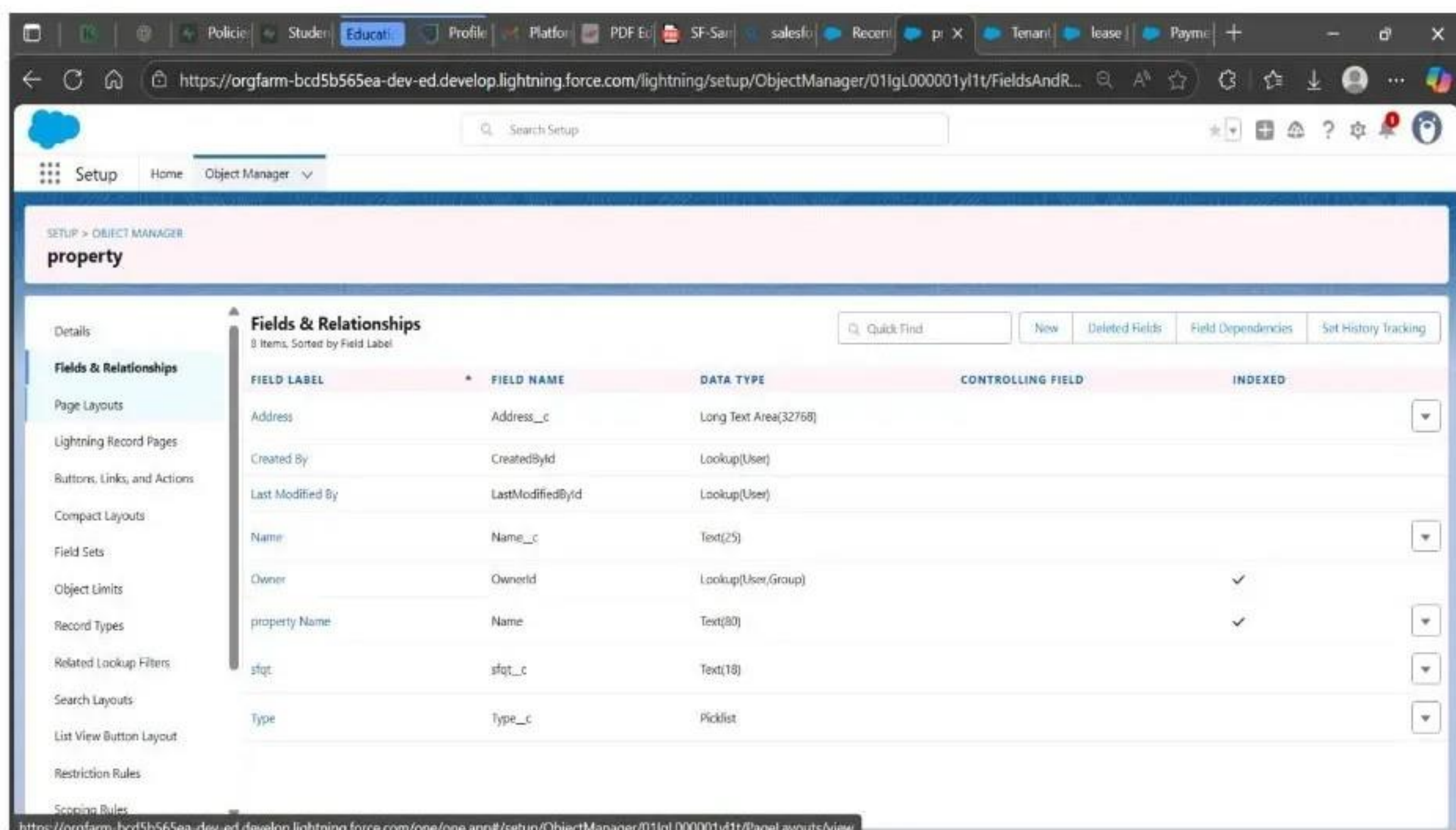
Description	
API Name	lease__c
Custom	✓
Singular Label	lease
Plural Label	lease
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window

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

<https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/one/one.app#/setup/ObjectManager/01lgL000001ylUj/view>



- Configured fields and relationships



Police | Studer | **Educate** | Profile | Platform | PDF Editor | SF-San | salesfo | Recent | proper | Tr X | lease | Payme | +

https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgL0000001ylUv/FieldsAnd...

Search Setup

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

9 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)		
Email	Email_c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone	Phone_c	Phone		
property	property_c	Lookup(property)		✓
Property Owner	Property_Owner_c	Lookup(User)		✓
status	status_c	Picklist		
Tenant Name	Name	Text(80)		✓

Search Setup

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

Scoping Rules

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		

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
- Scoping Rules

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)		
Payment date	Payment_date__c	Date		
Payment Name	Name	Text(80)		✓
Tenant	Tenant__c	Master-Detail(Tenant)		✓

https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/one/one.a...

- Developed Lightning App with relevant tabs

Click to go back, hold to see history

Lightning App Builder | App Settings | Pages | Lease Management

App Settings

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

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 [?]
Enter a description...

App Branding

Image [?]
Upload

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

LM Lease Management

PoliciEducatProfilPlatfoPDFSF-Si...salesRecepropeTenanleasePaym

https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugL000006iRXIQAO&retUrl...

Lightning App BuilderApp SettingsPagesLease ManagementHelp

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 fol...

Accounts

Activation Targets

Activations

All Sites

Alternative Payment Methods

Analytics

App Launcher

Appointment Categories

Appointment Invitations

Approval Requests

Approval Submission Details

Selected Items

Payment

Tenants

property

lease

https://orgfarm-bcd5b565ea-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugL000006iRXIQAO&retUrl...

Lightning App BuilderApp SettingsPagesLease ManagementHelp

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 prof...

Analytics Cloud Integration User

Analytics Cloud Security User

Anypoint Integration

Authenticated Website

Authenticated Website

B2B Reordering Portal Buyer Profile

Contract Manager

Custom: Marketing Profile

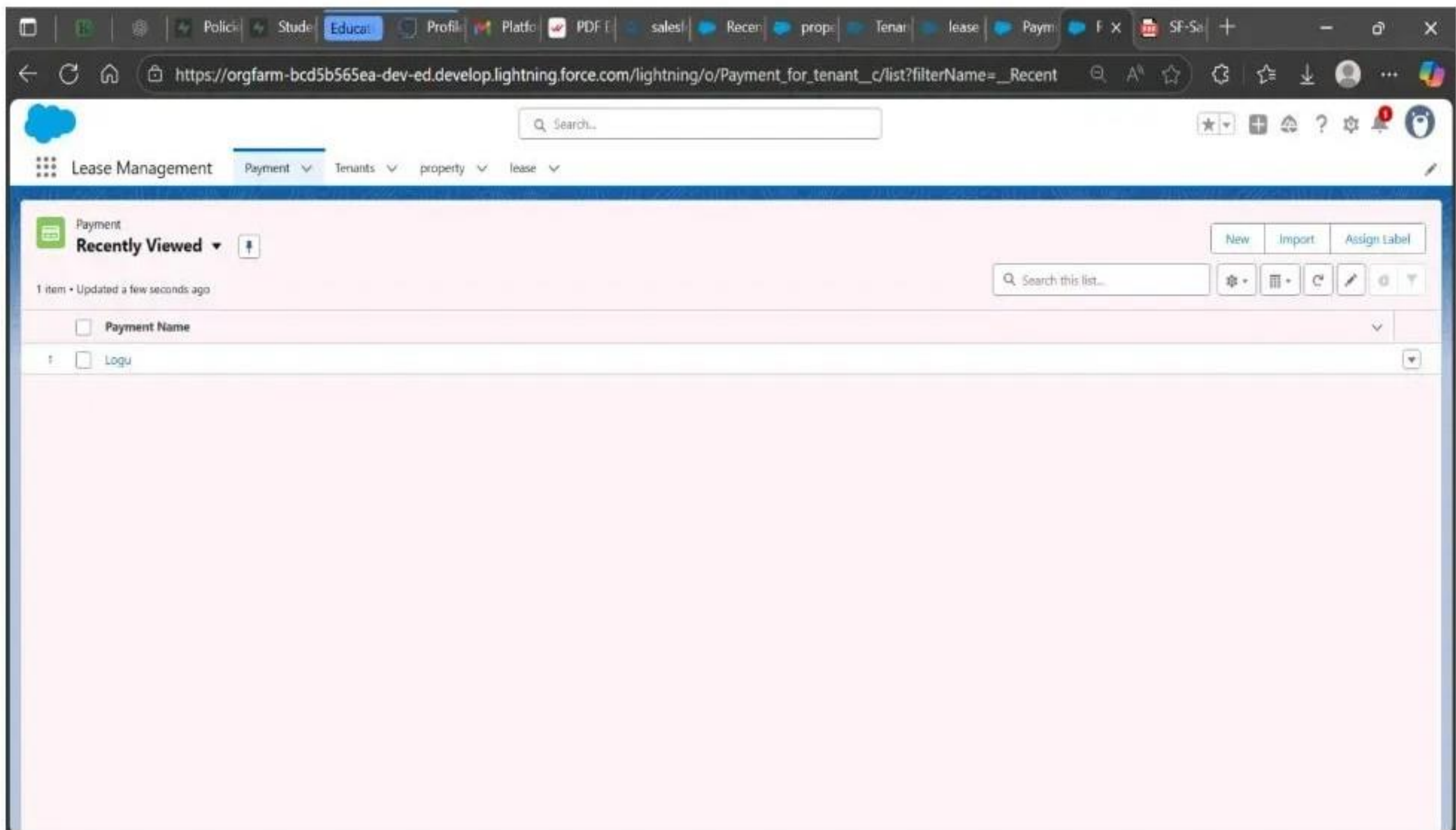
Custom: Sales Profile

Custom: Support Profile

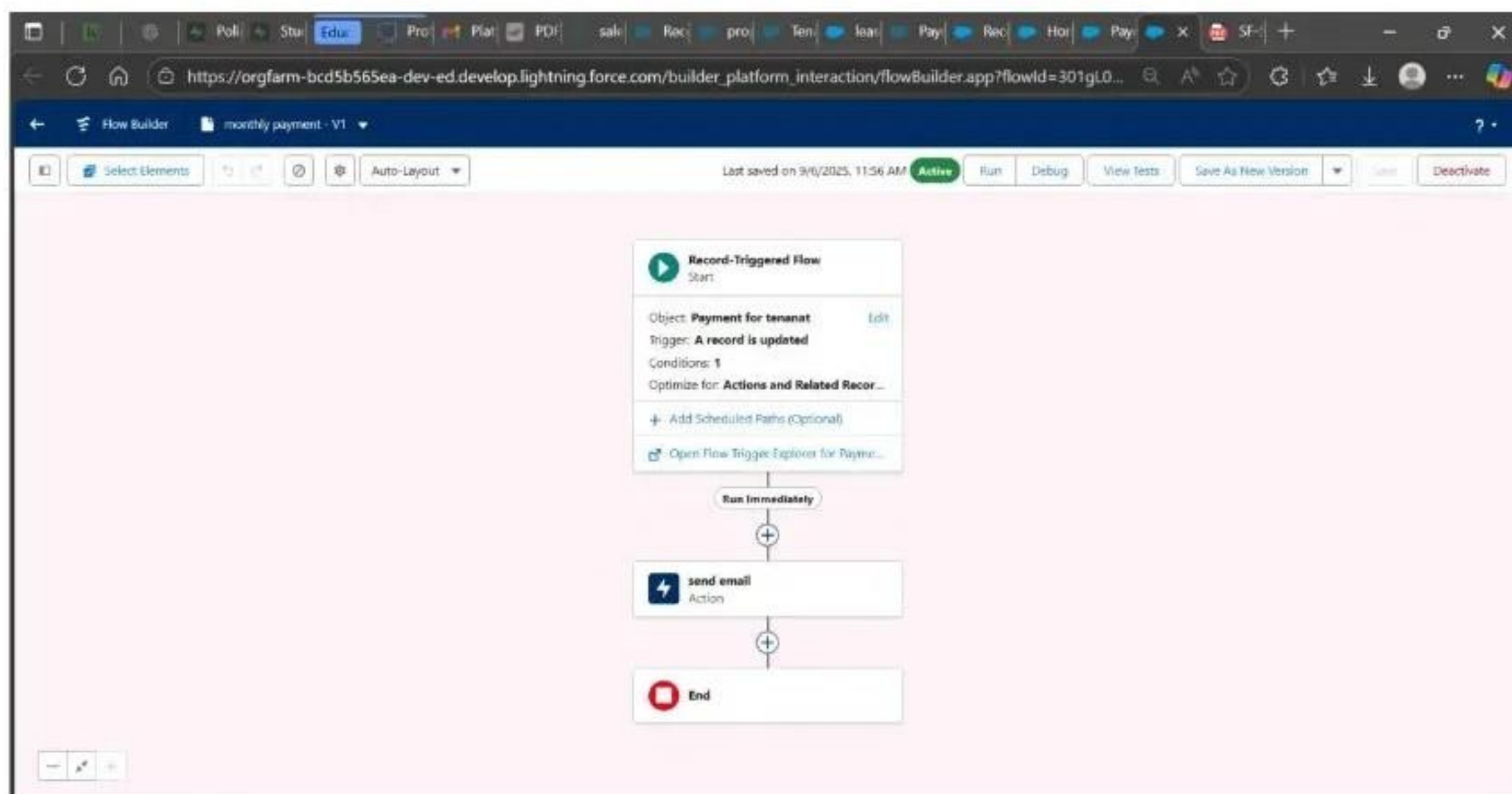
Customer Community Login User

Selected Profiles

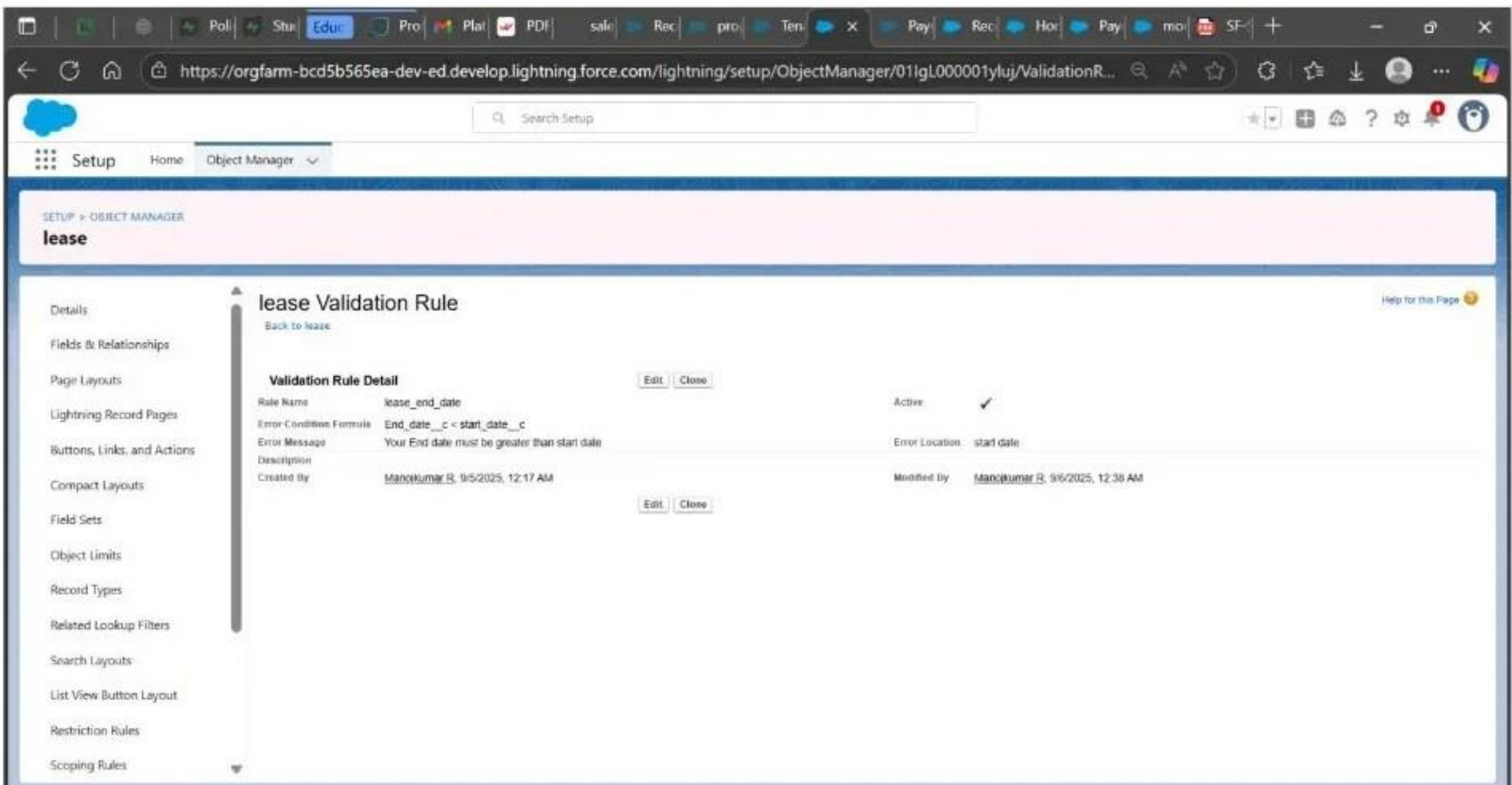
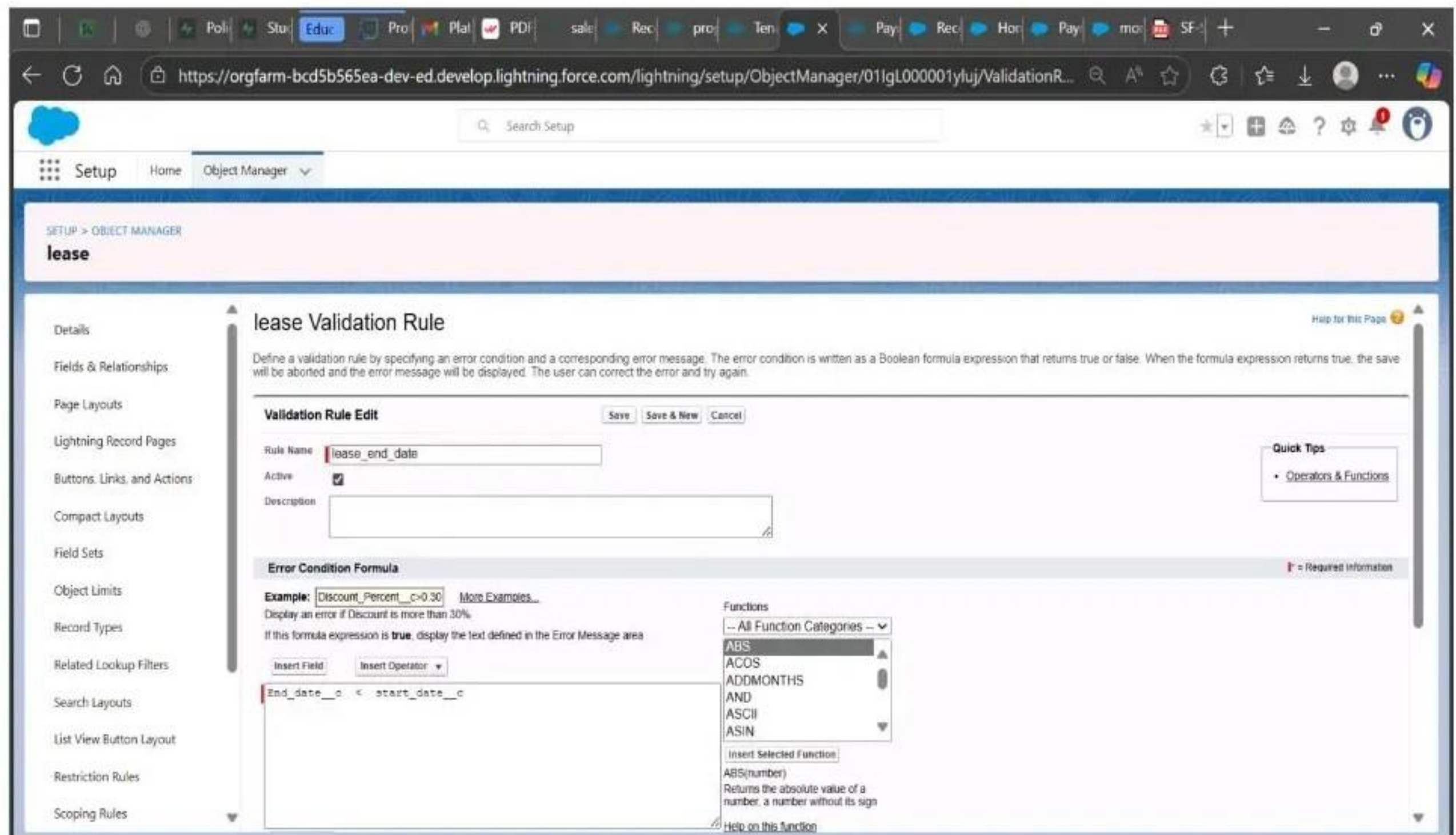
System Administrator



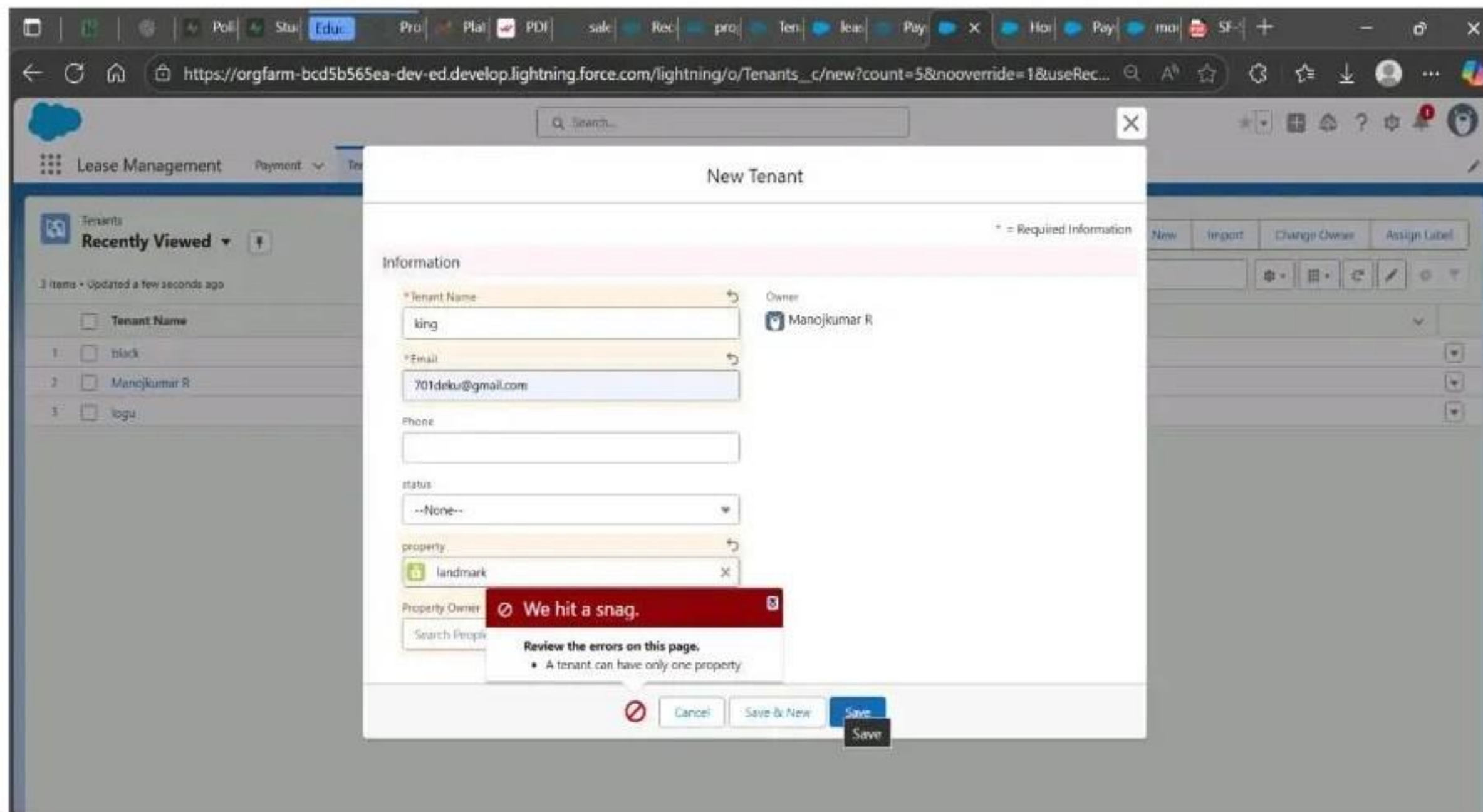
- Implemented Flows for monthly rent and payment success



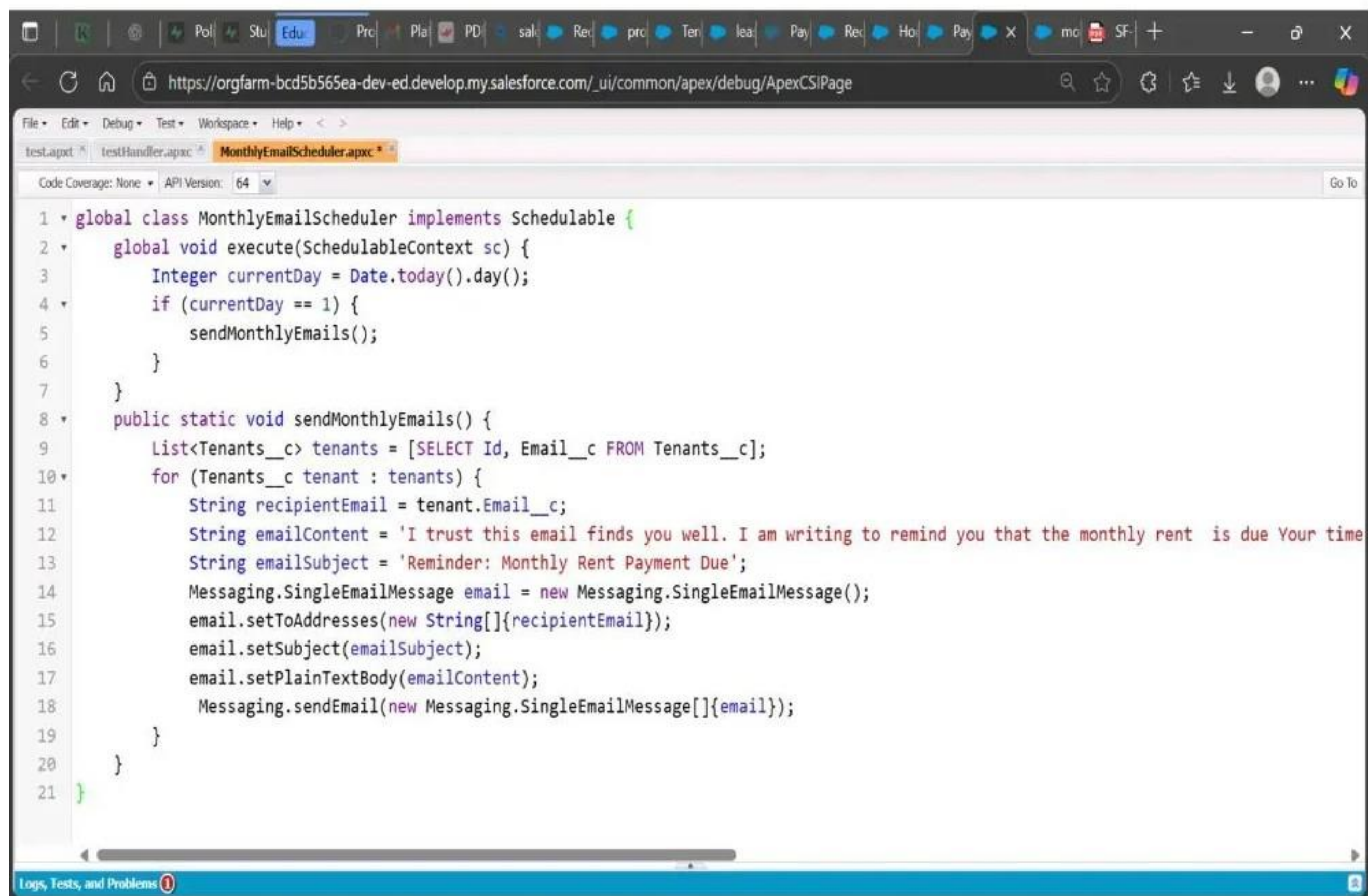
- To create a validation rule to a Lease Object



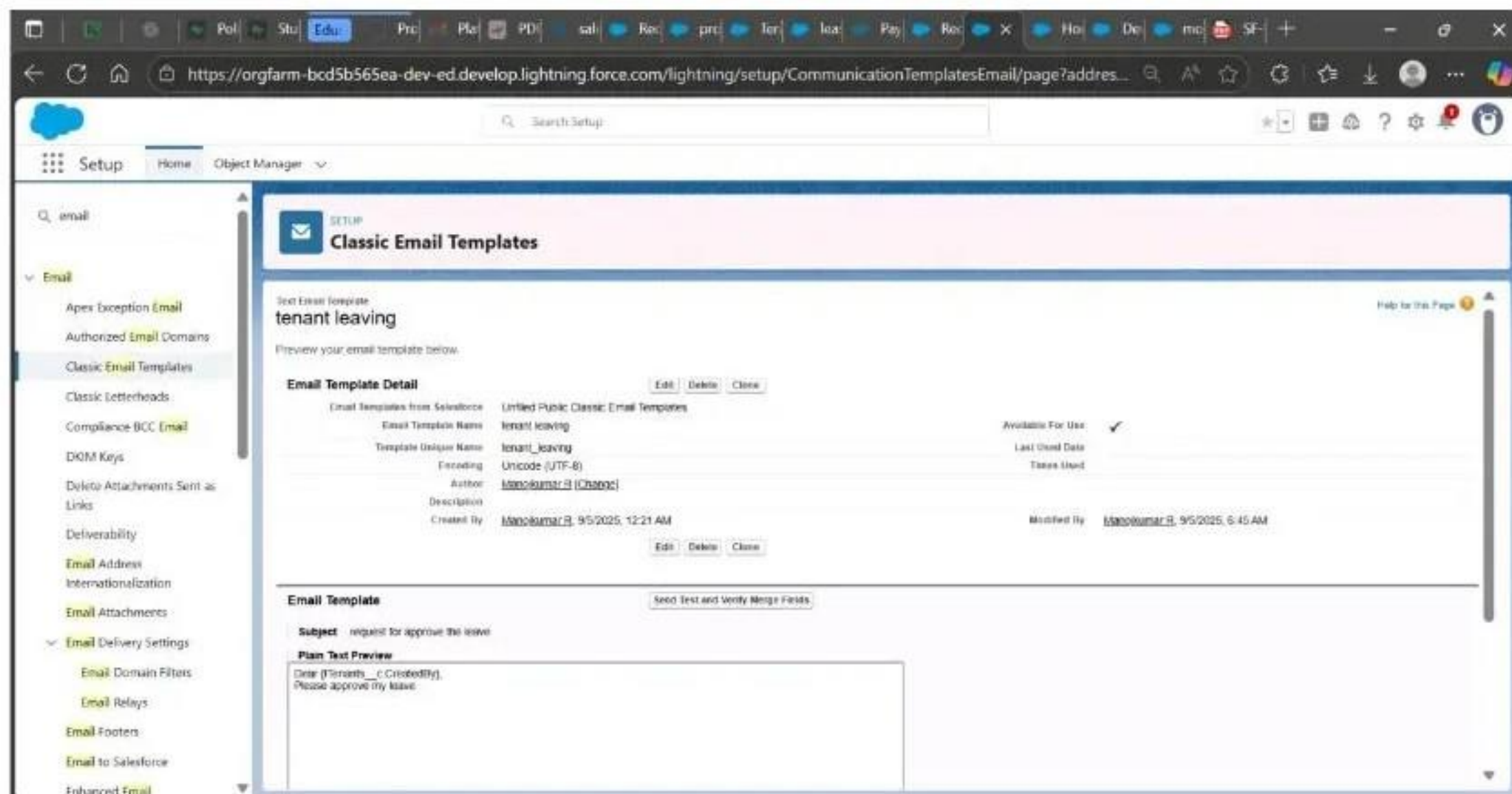
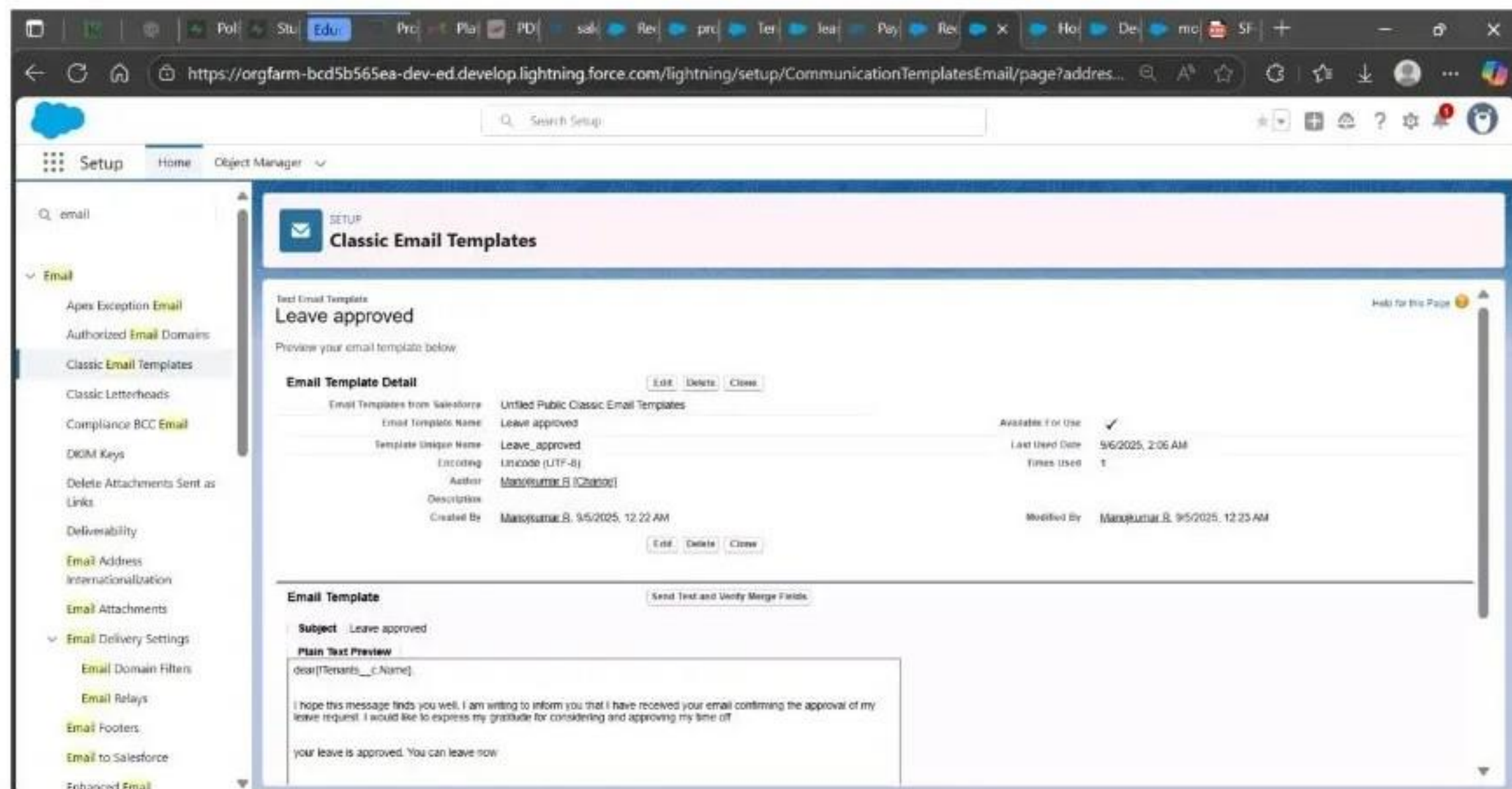
- Added Apex trigger to restrict multiple tenants per property

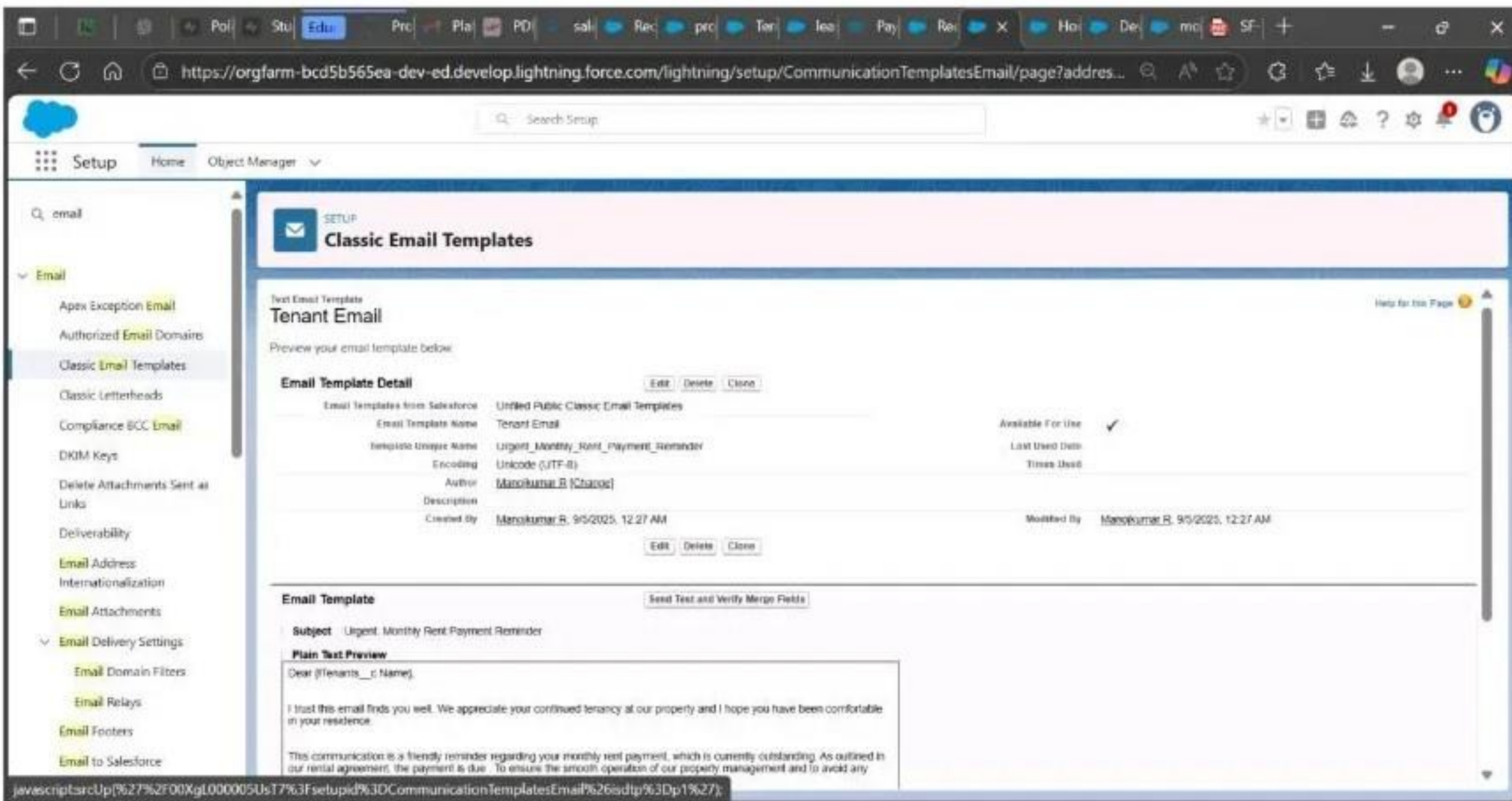
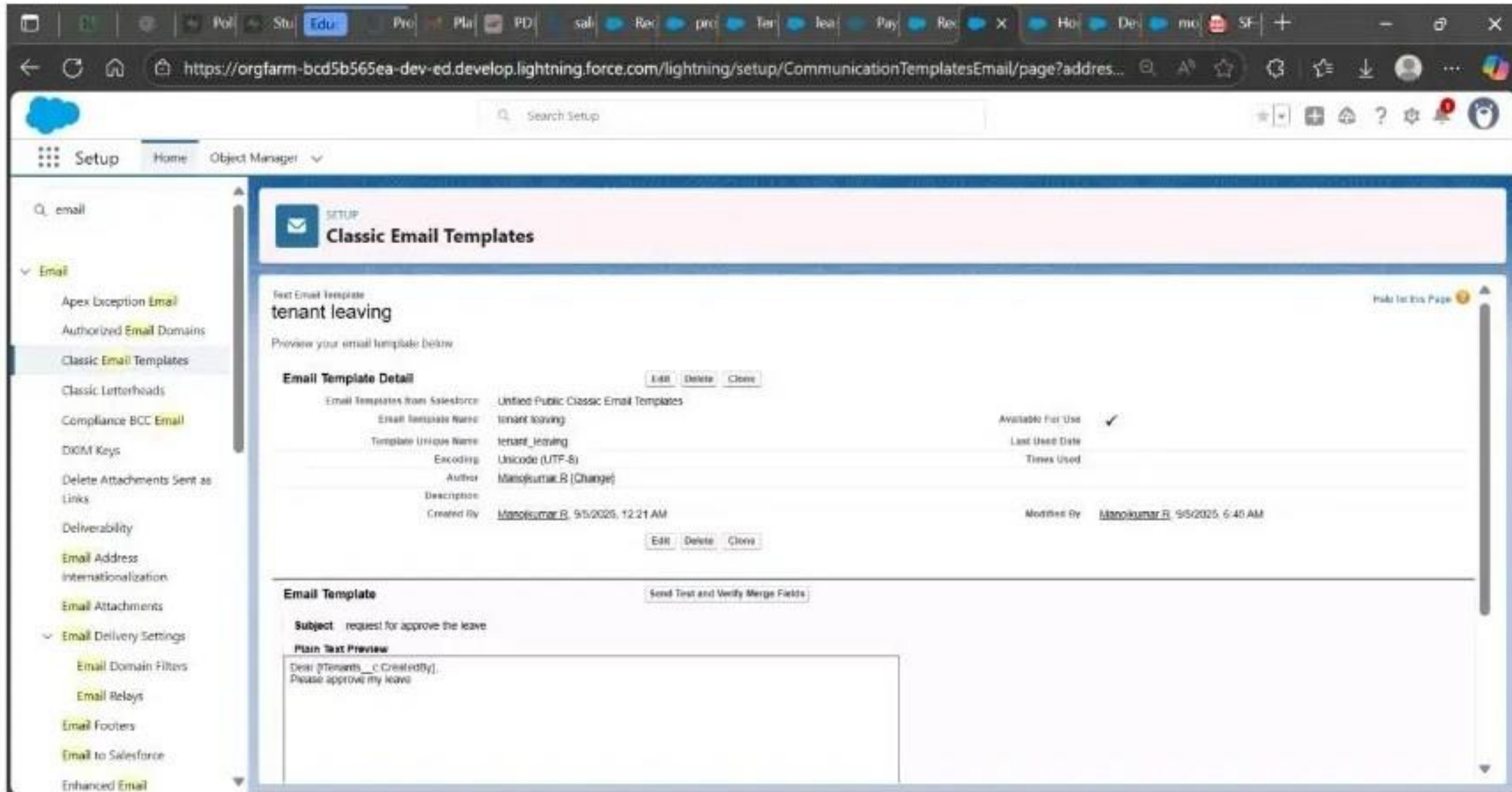


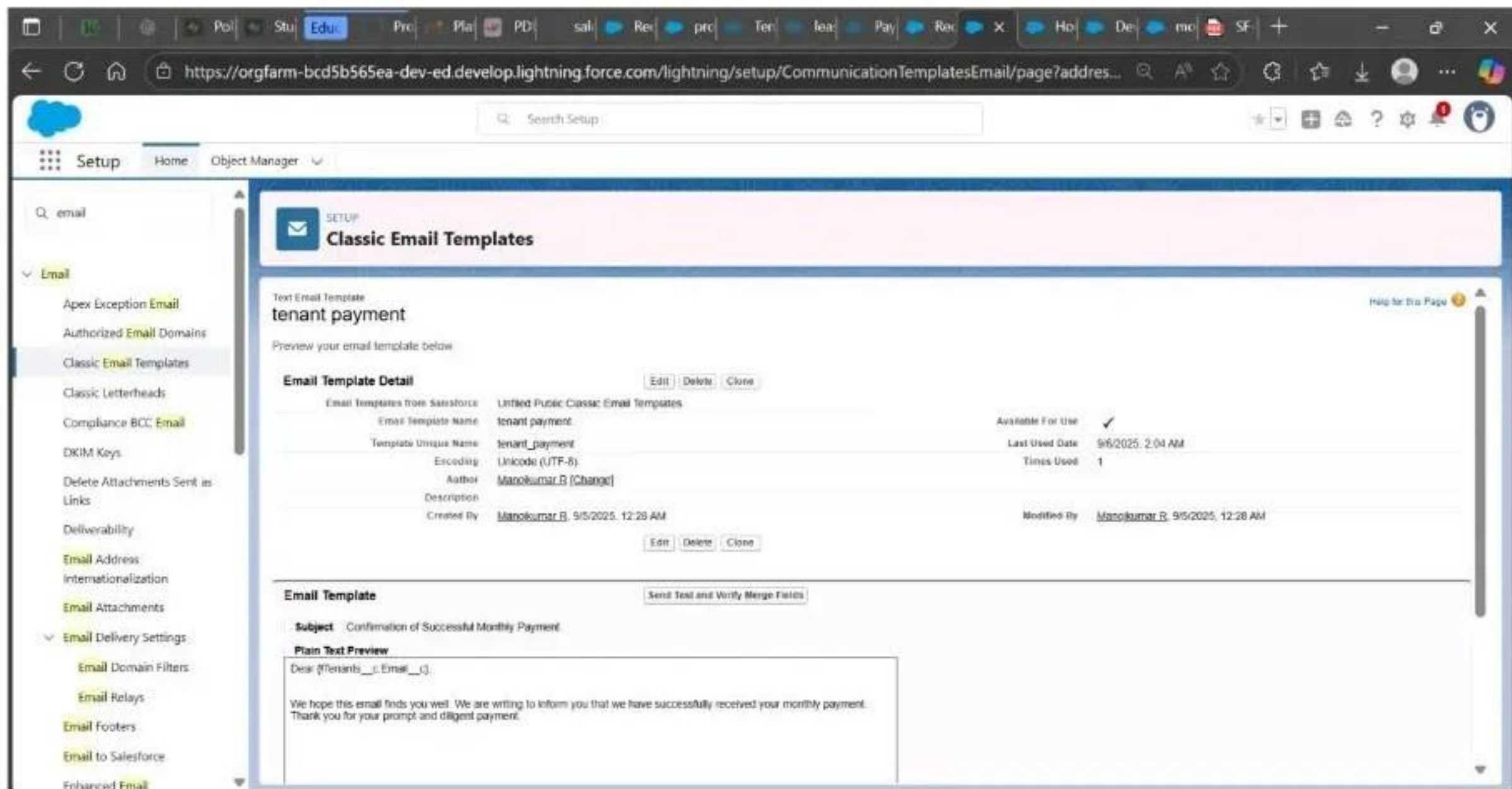
- Scheduled monthly reminder emails using Apex class



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

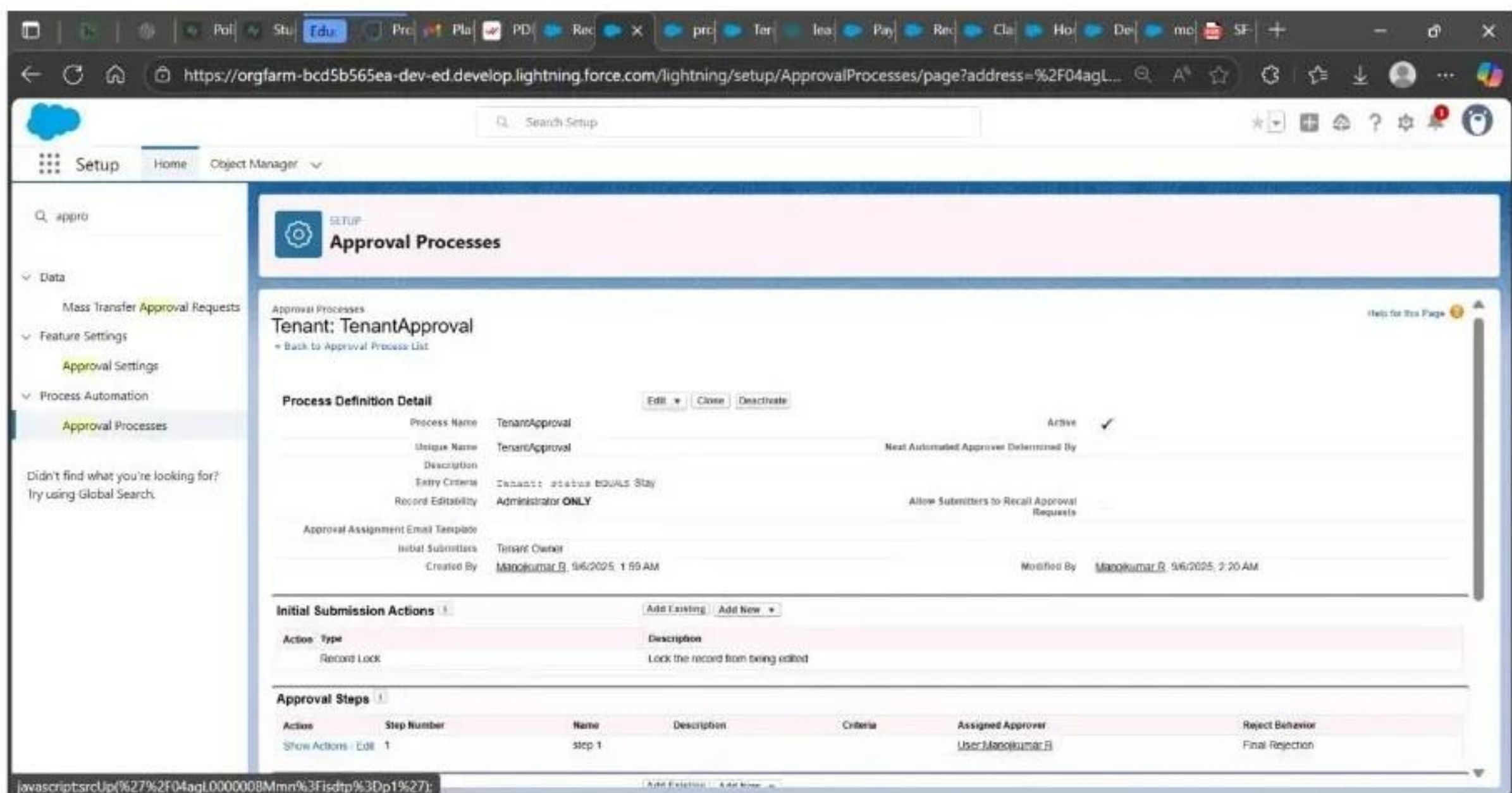




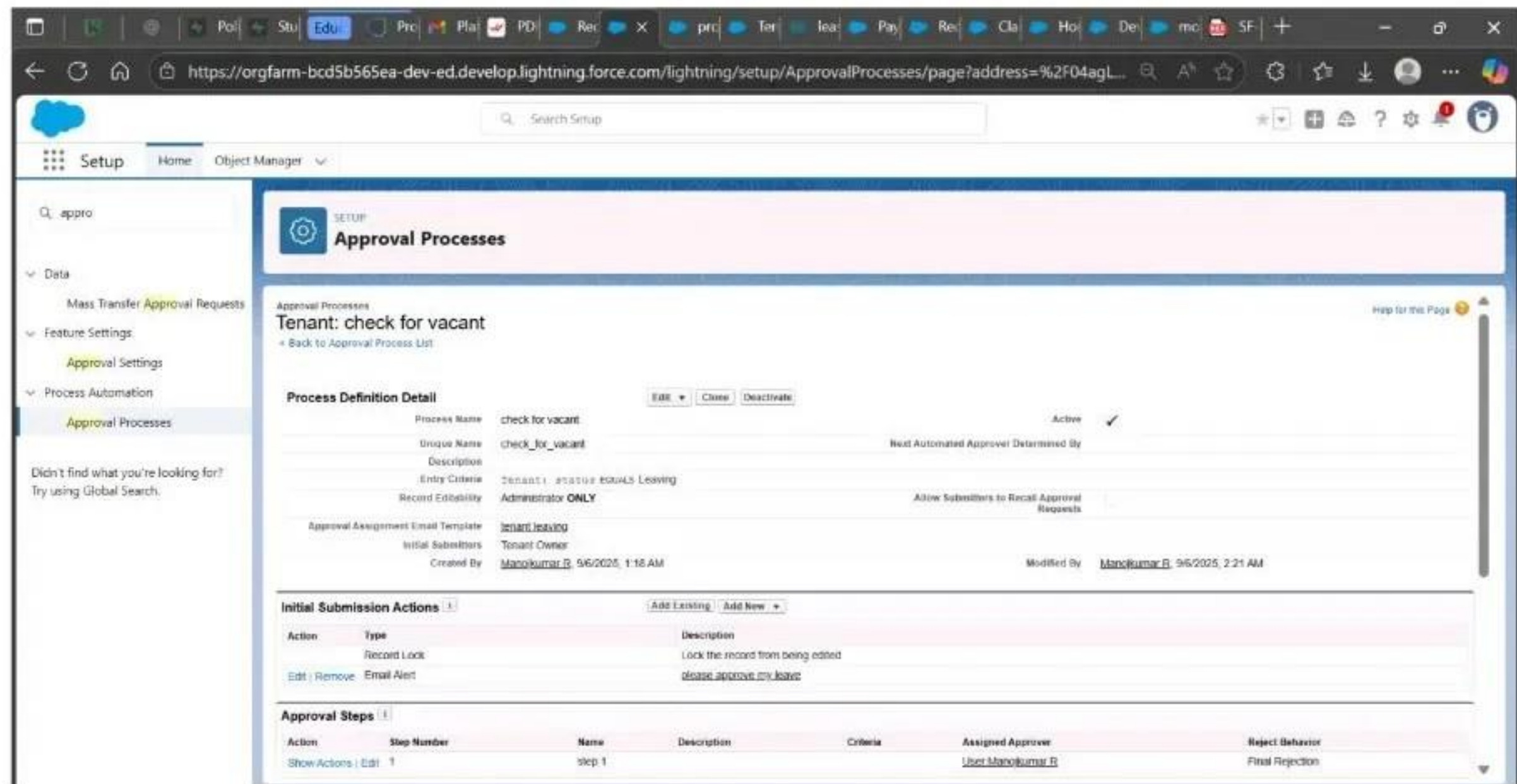


- Approval Process creation

For Tenant Leaving:

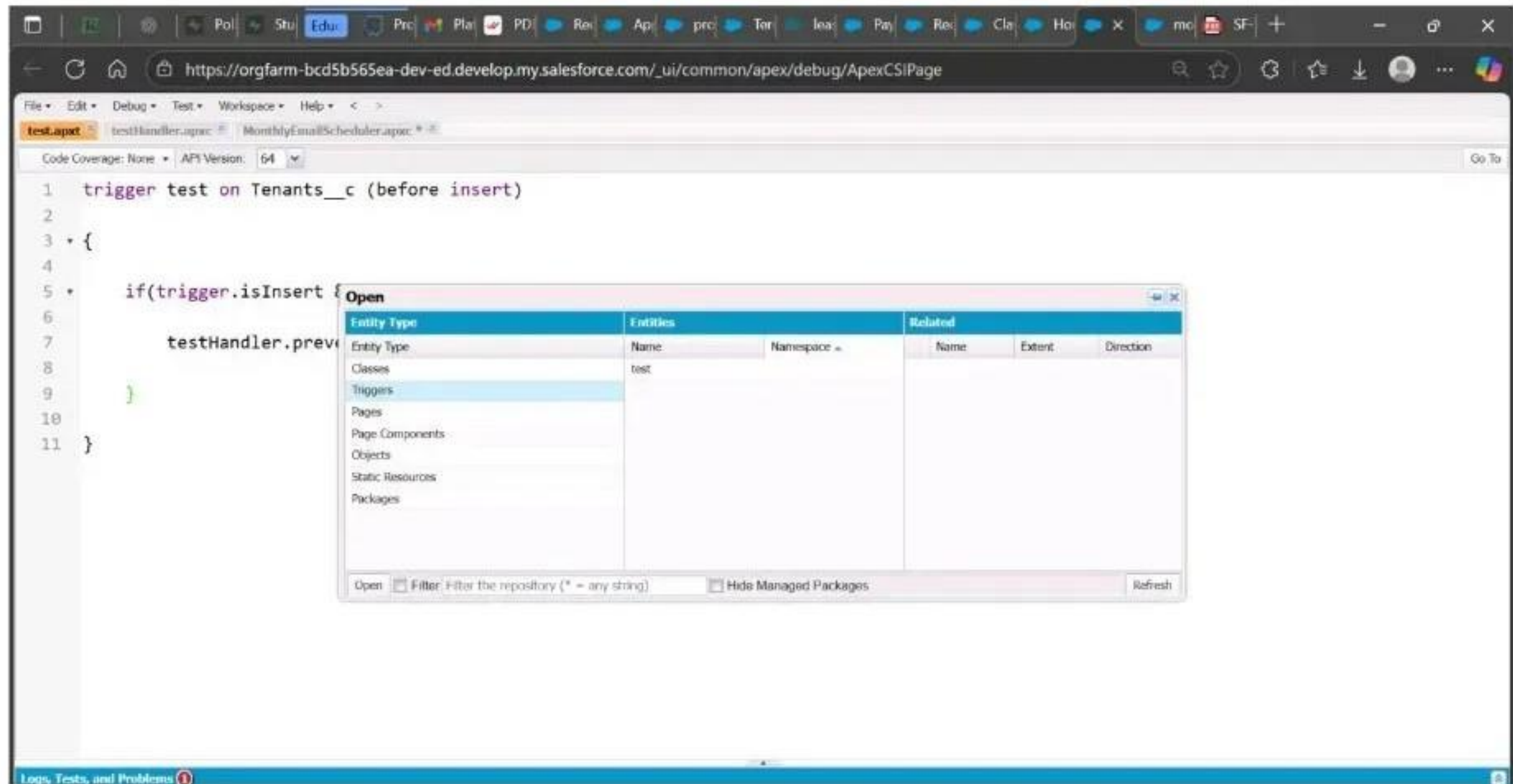


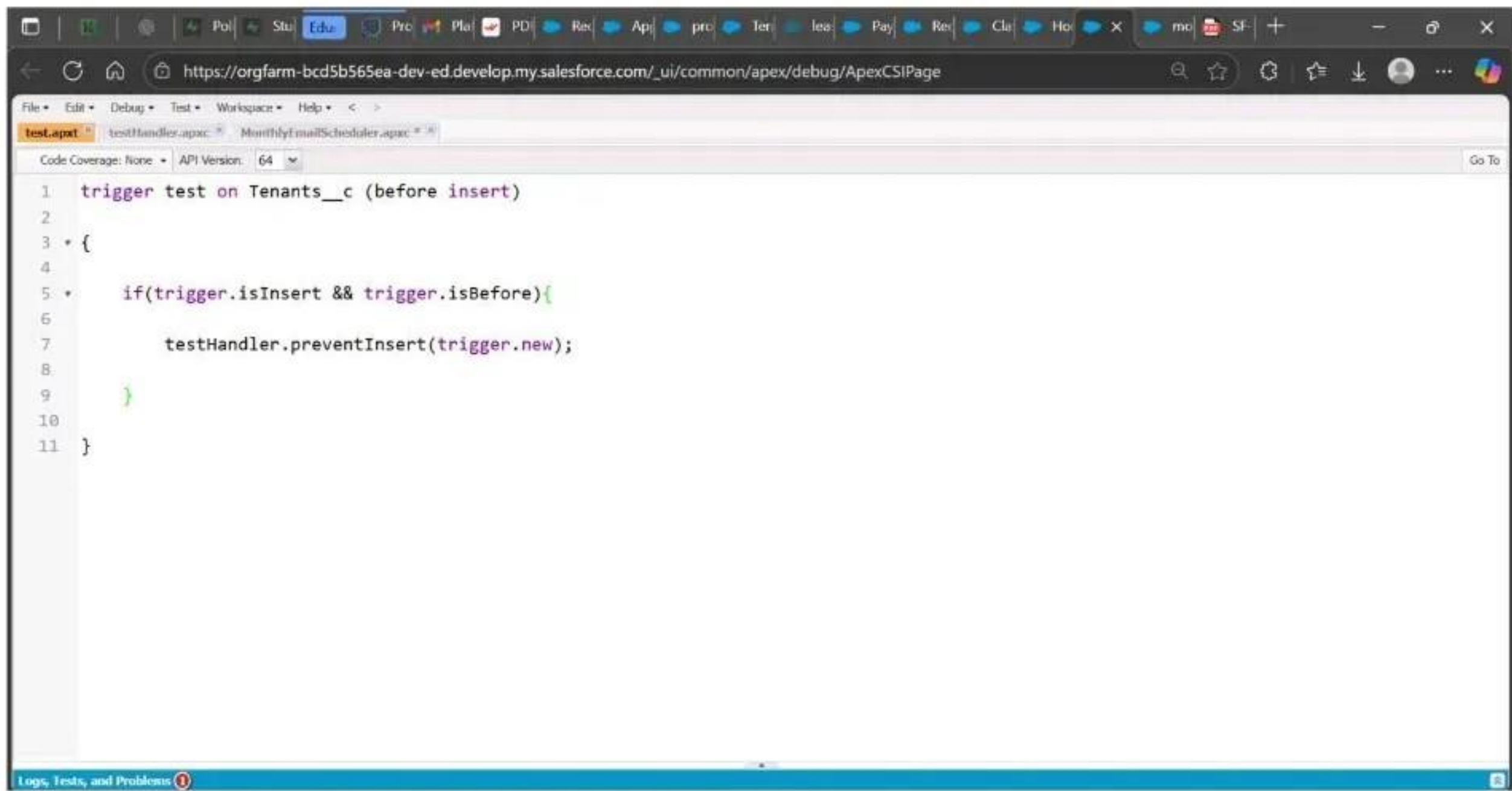
For Check for Vacant:



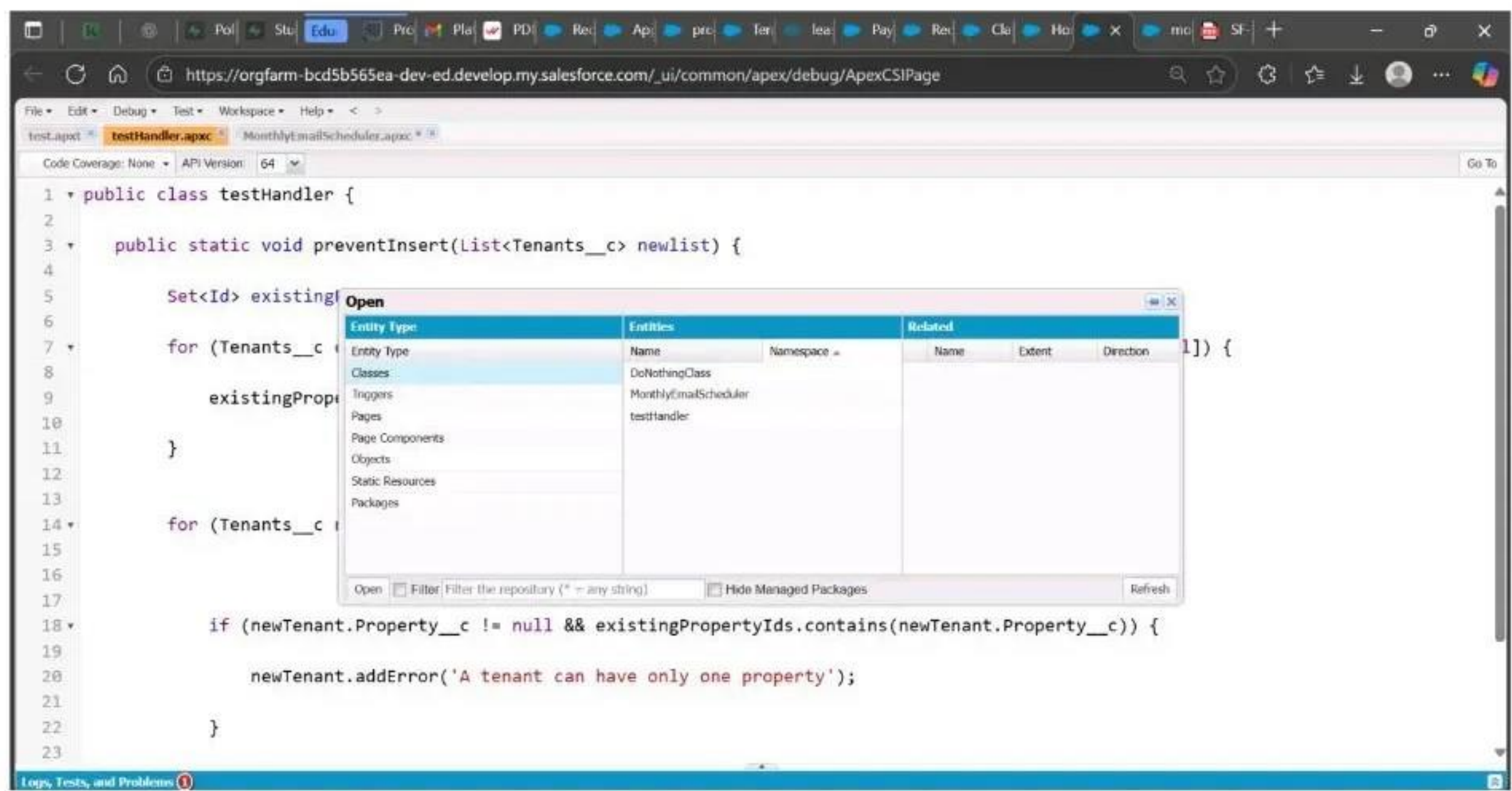
- Apex Trigger

Create an Apex Trigger



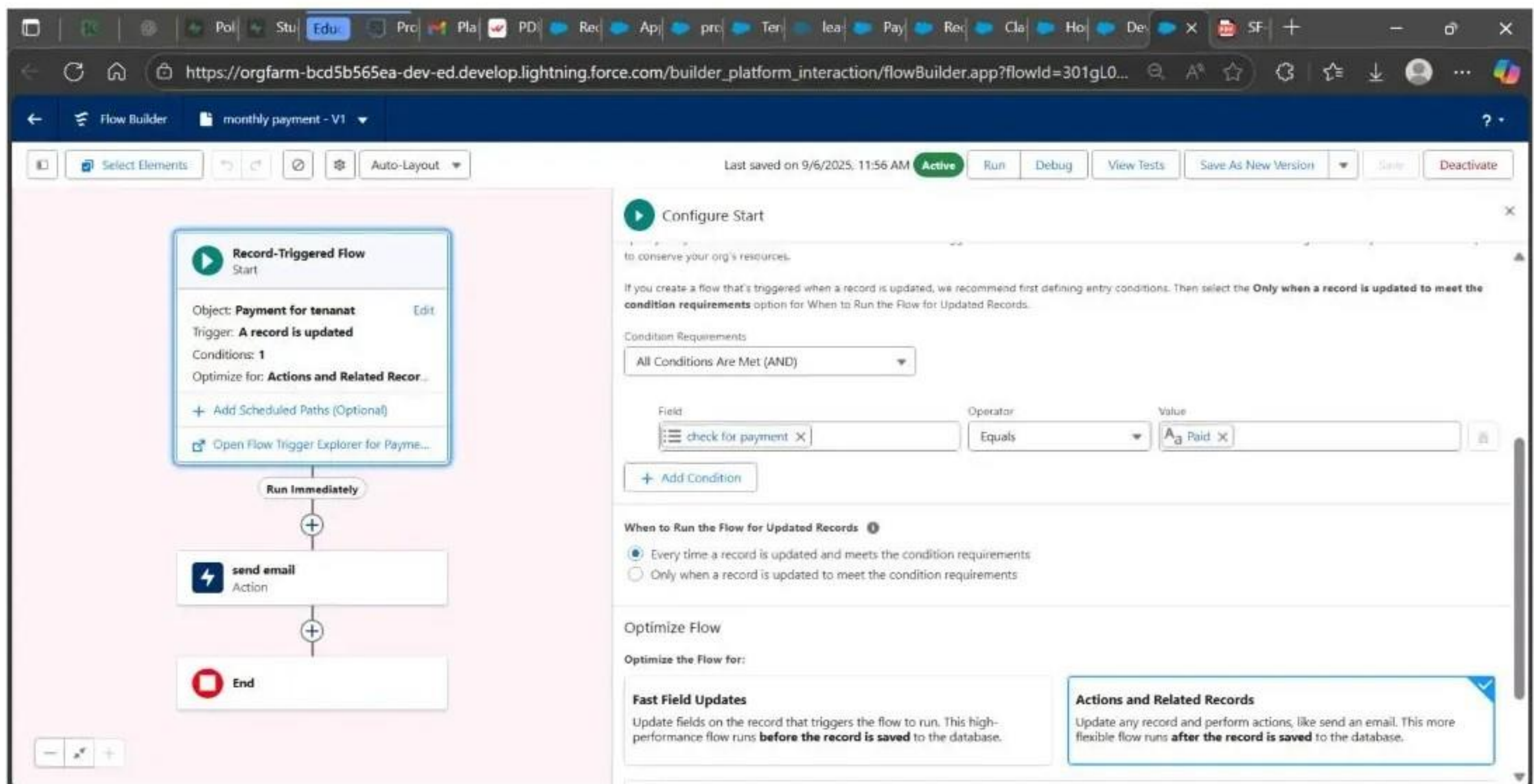


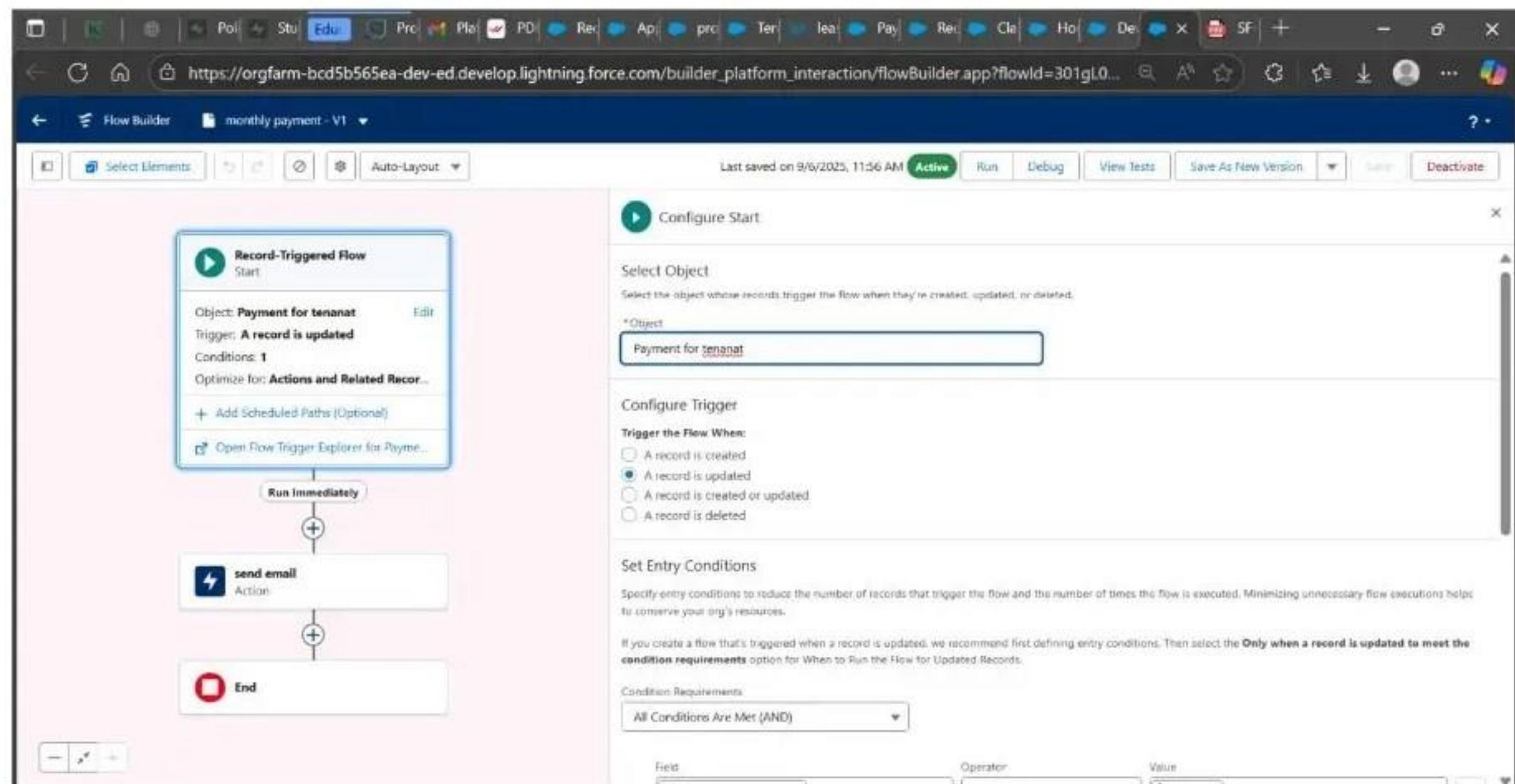
Create an Apex Handler class



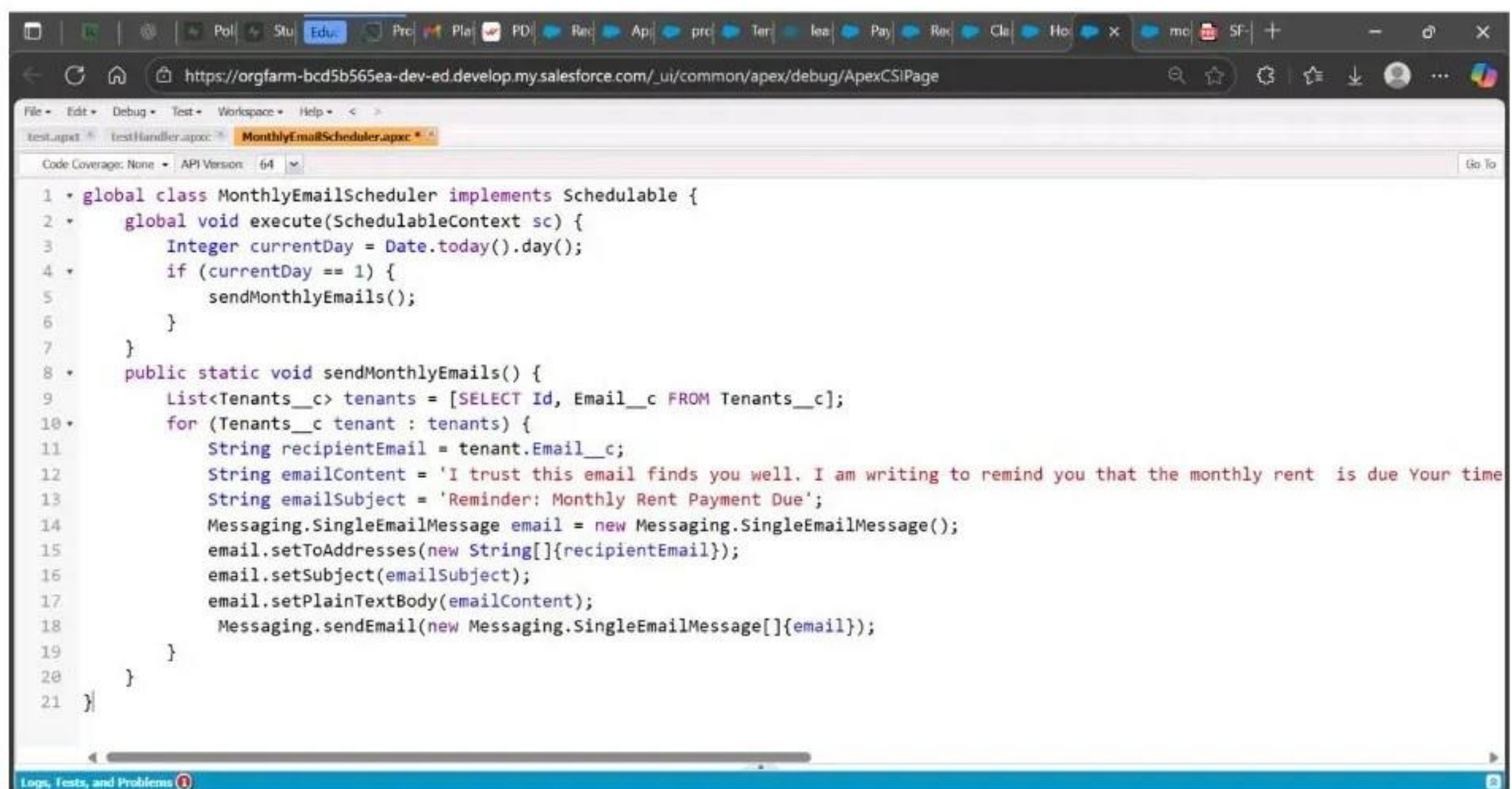

```
1 public class testHandler {
2
3     public static void preventInsert(List<Tenants__c> newList) {
4
5         Set<Id> existingPropertyIds = new Set<Id>();
6
7         for (Tenants__c existingTenant : [SELECT Id, Property__c FROM Tenants__c WHERE Property__c != null]) {
8
9             existingPropertyIds.add(existingTenant.Property__c);
10
11         }
12
13         for (Tenants__c newTenant : newList) {
14
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 }
```

• FLOWS





- Schedule class:
Create an Apex Class




```
1 global class MonthlyEmailScheduler implements Schedulable {
2     global void execute(SchedulableContext sc) {
3         Integer currentDay = Date.today().day();
4         if (currentDay == 1) {
5             sendMonthlyEmails();
6         }
7     }
8     public static void sendMonthlyEmails() {
9         List<Tenants__c> tenants = [SELECT Id, Email__c FROM Tenants__c];
10        for (Tenants__c tenant : tenants) {
11            String recipientEmail = tenant.Email__c;
12            String emailContent = 'I trust this email finds you well. I am writing to remind you that the monthly rent is due Your time';
13            String emailSubject = 'Reminder: Monthly Rent Payment Due';
14            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
15            email.setToAddresses(new String[]{recipientEmail});
16            email.setSubject(emailSubject);
17            email.setPlainTextBody(emailContent);
18            Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});
19        }
20    }
21 }
```

Schedule Apex class

Setup

Search Setup

apex

Email

- Apex Exception Email

Custom Code

- Apex Classes
- Apex Settings
- Apex Test Execution
- Apex Test History
- Apex Triggers

Environments

- Jobs
 - Apex Flex Queue
 - Apex Jobs

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

Apex Classes

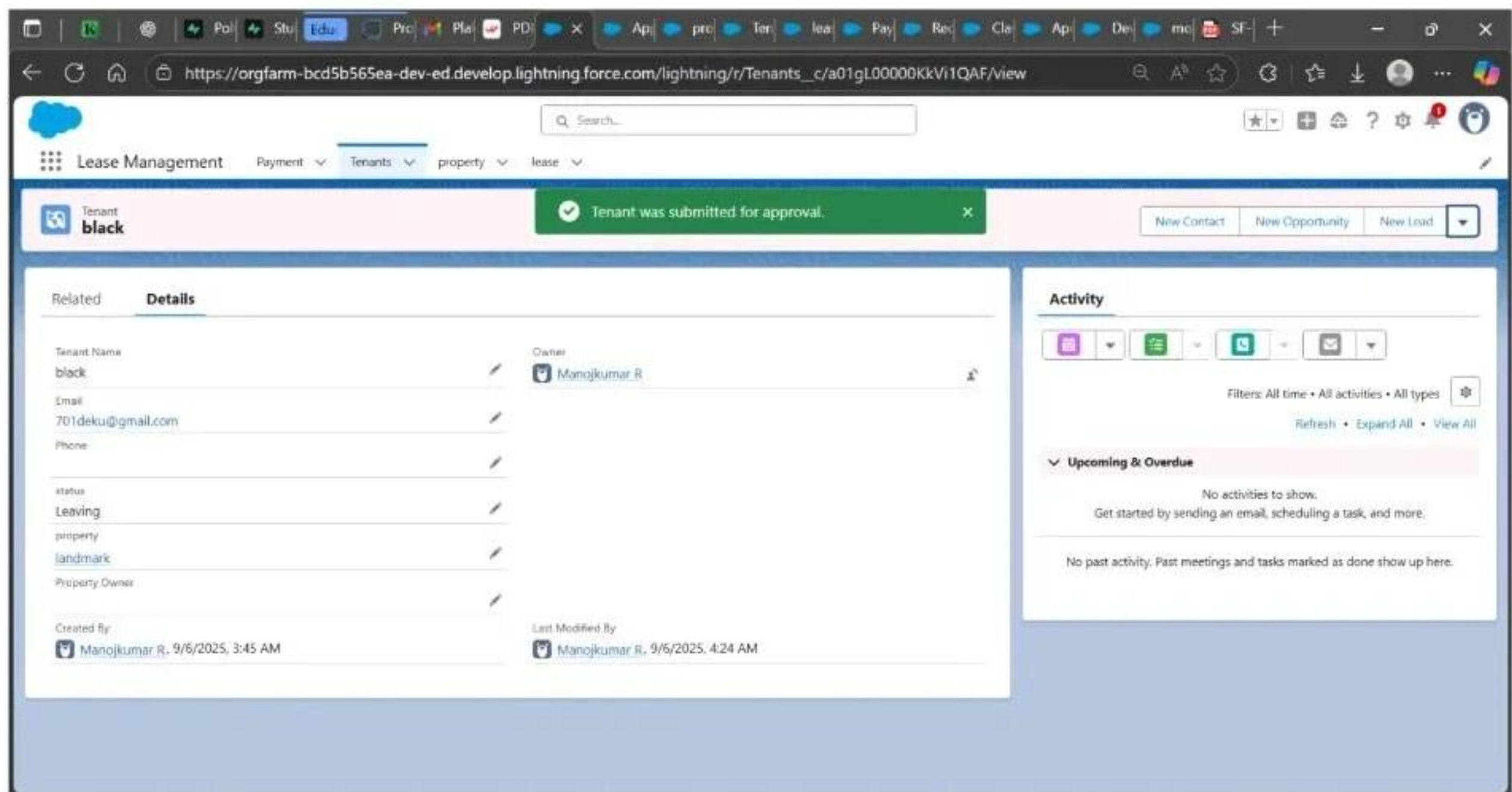
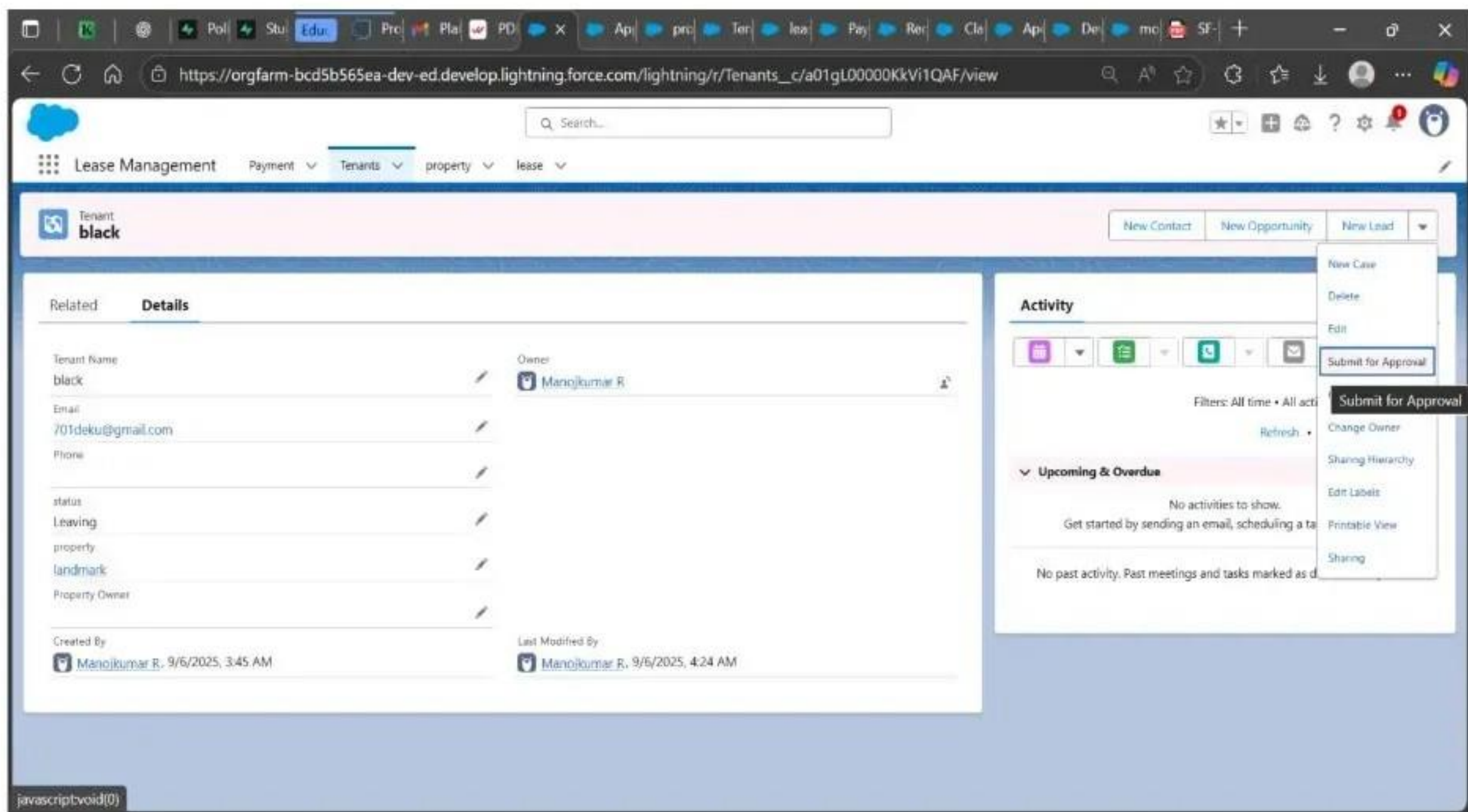
MonthlyEmailScheduler

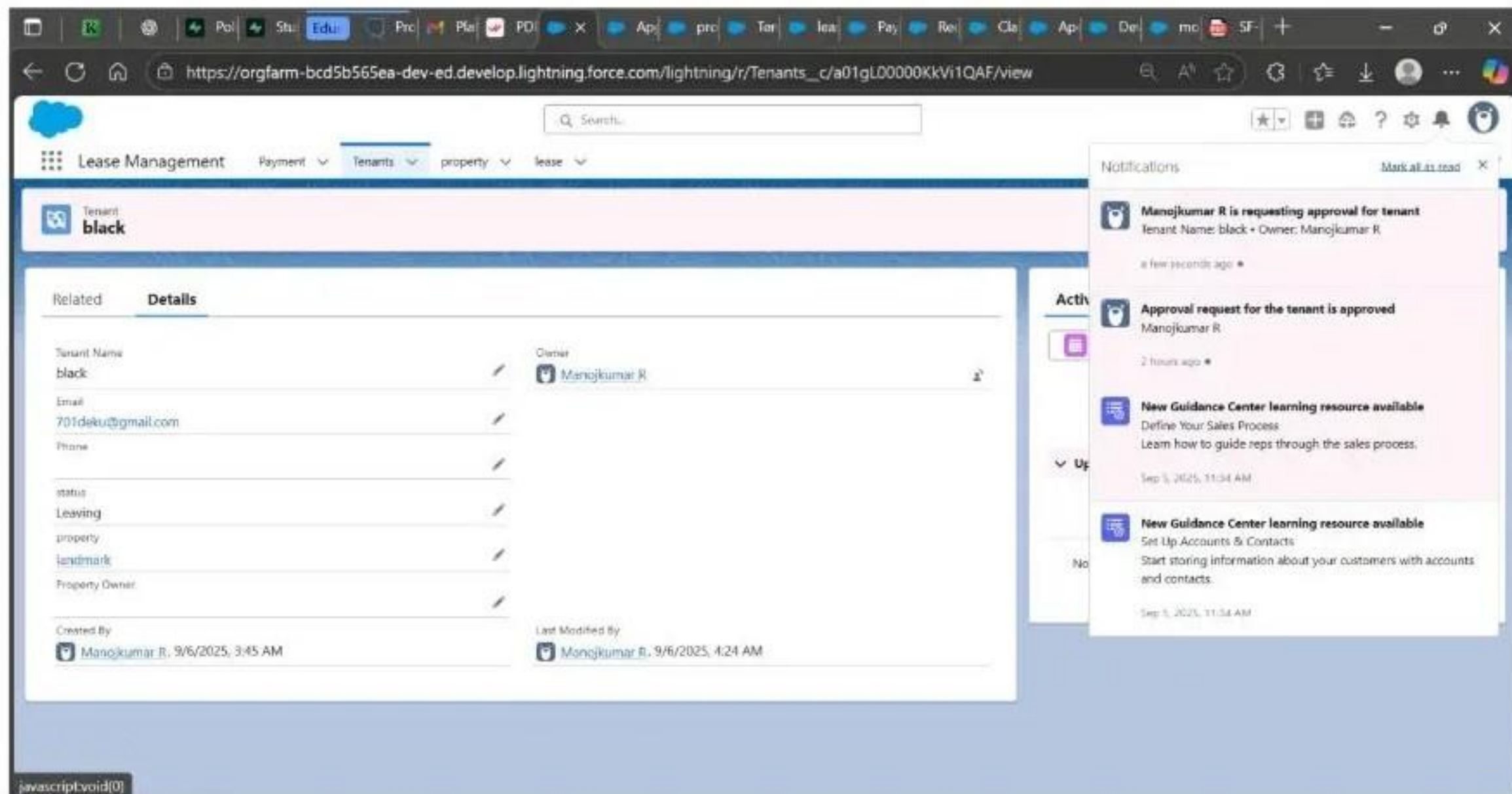
Apex Class Detail

Name	MonthlyEmailScheduler	Status	Active
Namespace Prefix		Code Coverage	0% (0/14)
Created By	Manojkumar R	Last Modified By	Manojkumar R
	9/5/2025, 10:35 AM		9/5/2025, 10:42 AM

Class Body

```
1 global class MonthlyEmailScheduler implements Schedulable {
2     global void execute(SchedulableContext sc) {
3         Integer currentDay = Date.today().day();
4         if (currentDay == 1) {
5             sendMonthlyEmails();
6         }
7     }
8     public static void sendMonthlyEmails() {
9         List<Tenants__c> tenants = [SELECT Id, Email__c FROM Tenants__c];
10        for (Tenants__c tenant : tenants) {
11            if (String.isBlank(tenant.Email__c)) {
12                Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
13                email.setToAddresses(new String[]{tenant.Email__c});
14                email.setSubject('Reminder: Monthly Rent Payment Due');
15                email.setPlainTextBody(
16                    'I trust this email finds you well. I am writing to remind you that the monthly rent is due. ' +
17                    'Your timely payment ensures the smooth functioning of our rental arrangement and helps maintain ' +
18                    'a positive living environment for all.'
19                );
20                Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});
21            }
22        }
23    }
24 }
```

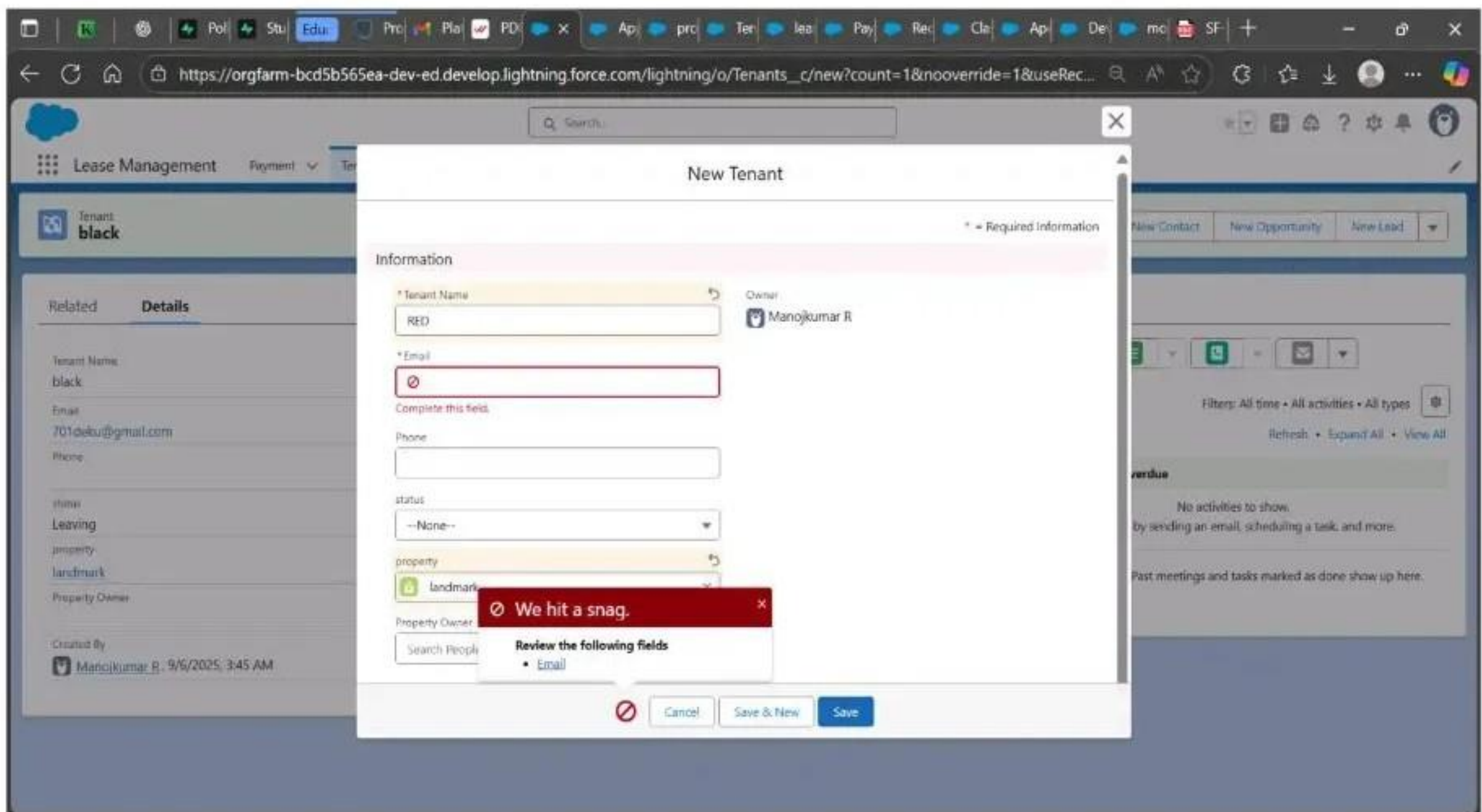





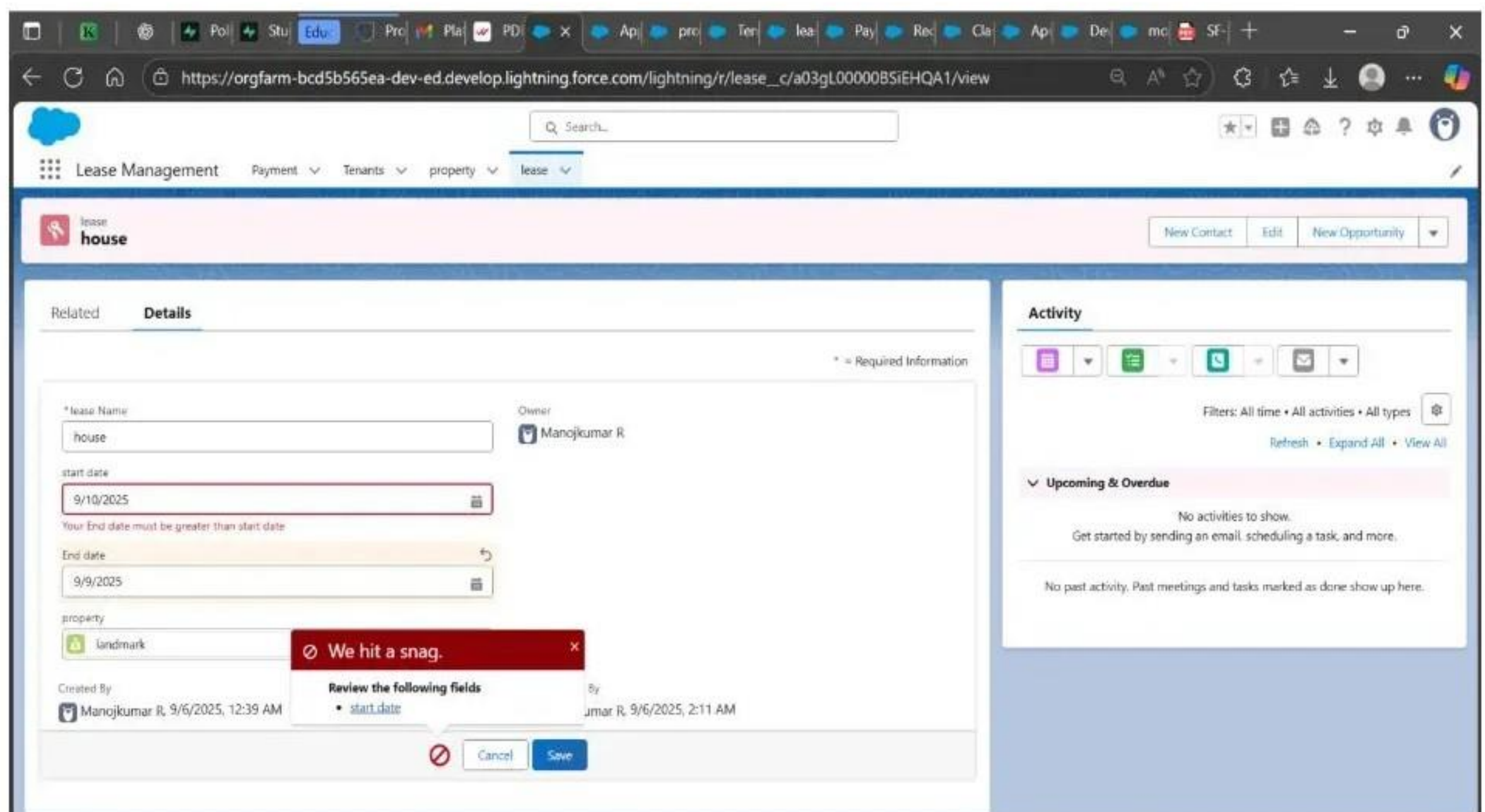
FUNCTIONAL AND PERFORMANCE TESTING

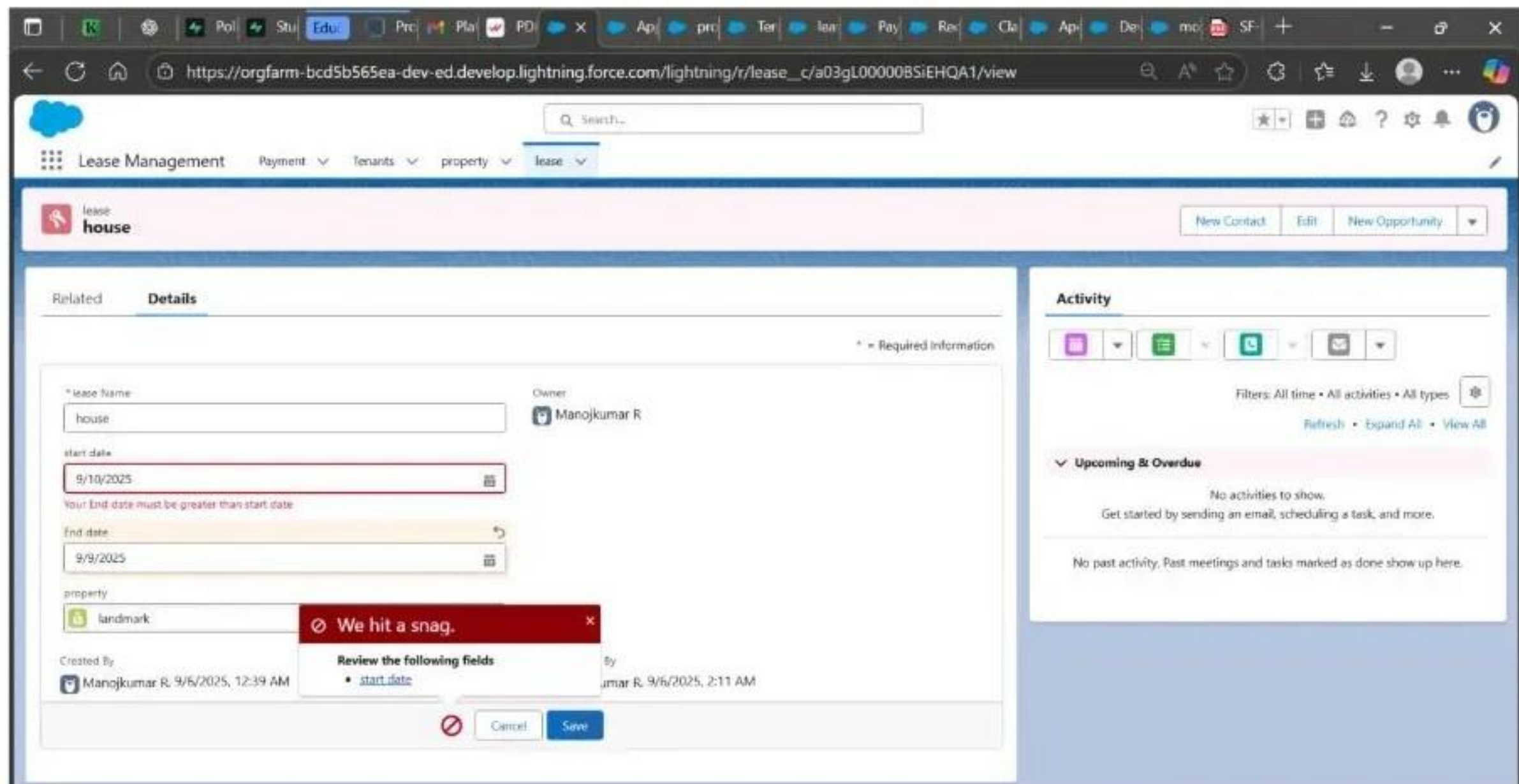
Performance Testing

- Trigger validation by entering duplicate tenant-property records

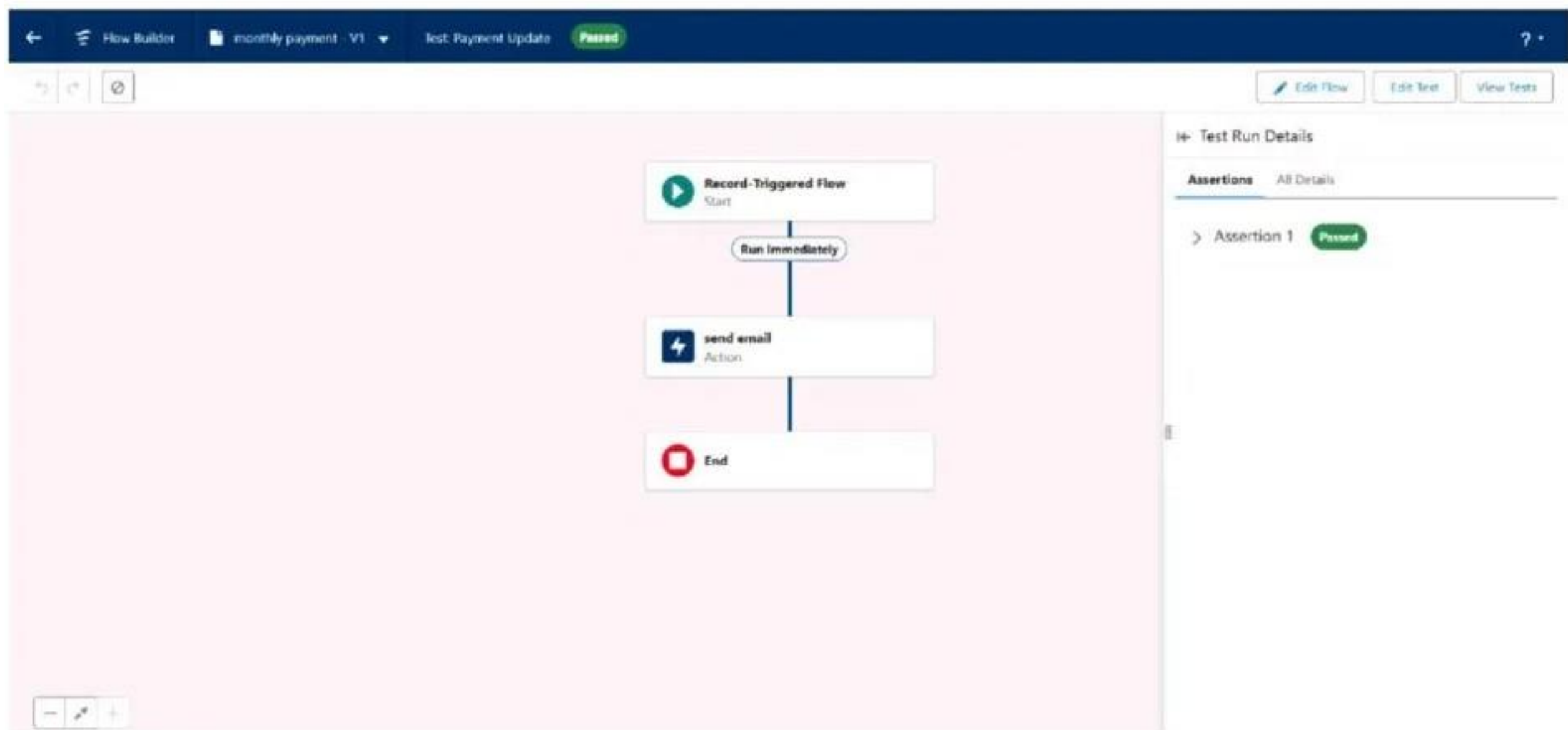


- Validation Rule checking





- Test flows on payment update



- Approval process validated through email alerts and status updates

Lease Management

Payment

Tenants

property

lease

Tenant

black

Related

Details

Tenant Name

black

Email

701deku@gmail.com

Phone

status

Leaving

property

landmark

Property Owner

Created By

Manojkumar R, 9/6/2025, 3:45 AM

Last Modified By

Manojkumar R, 9/6/2025, 4:24 AM

Notifications

Mark all as read

Manojkumar R is requesting approval for tenant

Tenant Name: black • Owner: Manojkumar R

a few seconds ago

Approval request for the tenant is approved

Manojkumar R

2 hours ago

New Guidance Center learning resource available

Define Your Sales Process

Learn how to guide reps through the sales process.

Sep 5, 2025, 11:34 AM

New Guidance Center learning resource available

Set Up Accounts & Contacts

Start storing information about your customers with accounts and contacts.

Sep 5, 2025, 11:34 AM

javascriptvoid(0)

Lease Management

Payment

Tenants

property

lease

Tenant

black

Related

Details

Payments (0)

New

Approval History (2)

Step Name	Date	Status	Assigned To
step 1	9/6/2025, 4:36 AM	Approved	Manojkumar R
Approval Request Submitted	9/6/2025, 4:25 AM	Submitted	Manojkumar R

View All

Payment (0)

New

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.

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');

            }

        }

    }

}

```

MonthlyEmailScheduler.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});
    }
}
}
```