LEASE MANAGEMENT

College Name: Sree Narayana Guru College

College Code: bru36

TEAM ID: NM2025TMID26637

TEAM MEMBERS: 4

- Team Leader Name: Sreelakshmi R

  Email: sreelakshmiramesh296@gmail.com

- Team Member1: Sreeram R

  Email: sreeramvava10@gmail.com

- Team Member: Suchithra S

  Email: kshasubhi163@gmail.com

- Team Member: Suhaibshan S

  Email: suhaibshan27@gmail.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.

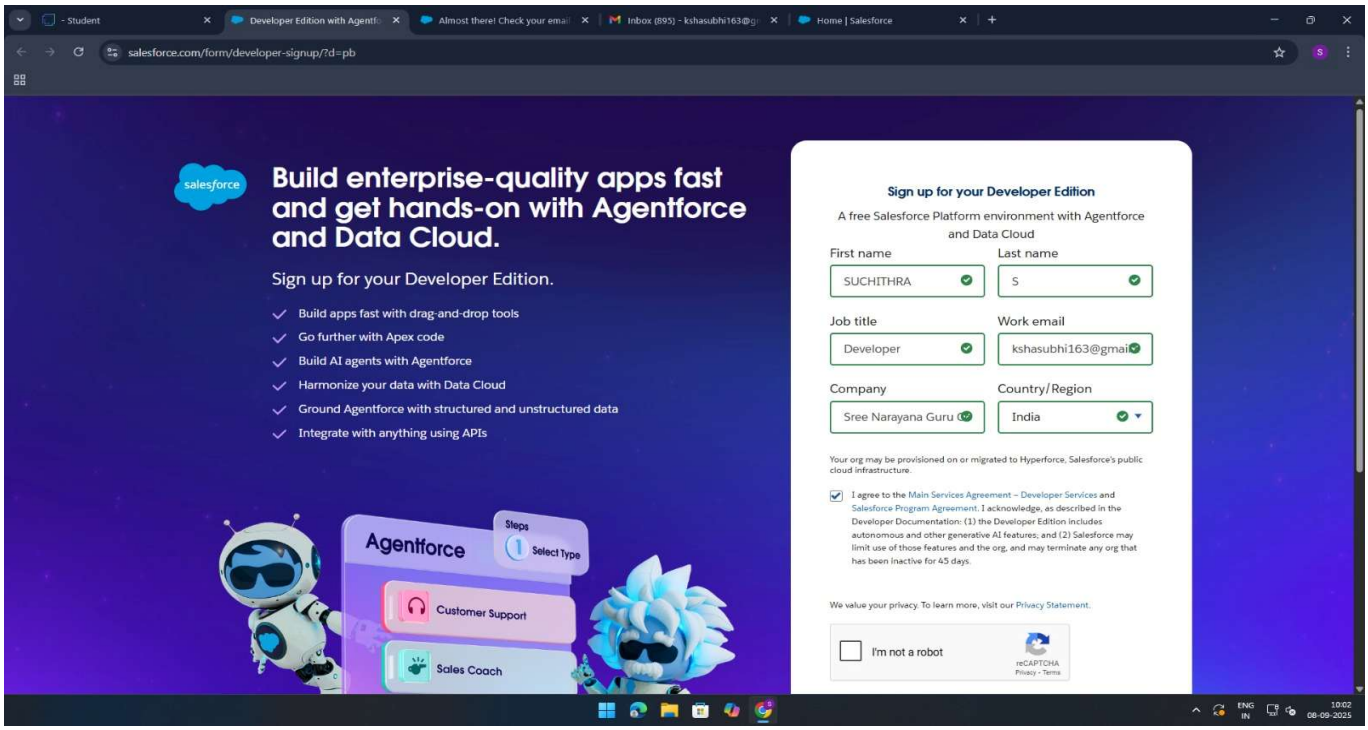
1.2 Purpose

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

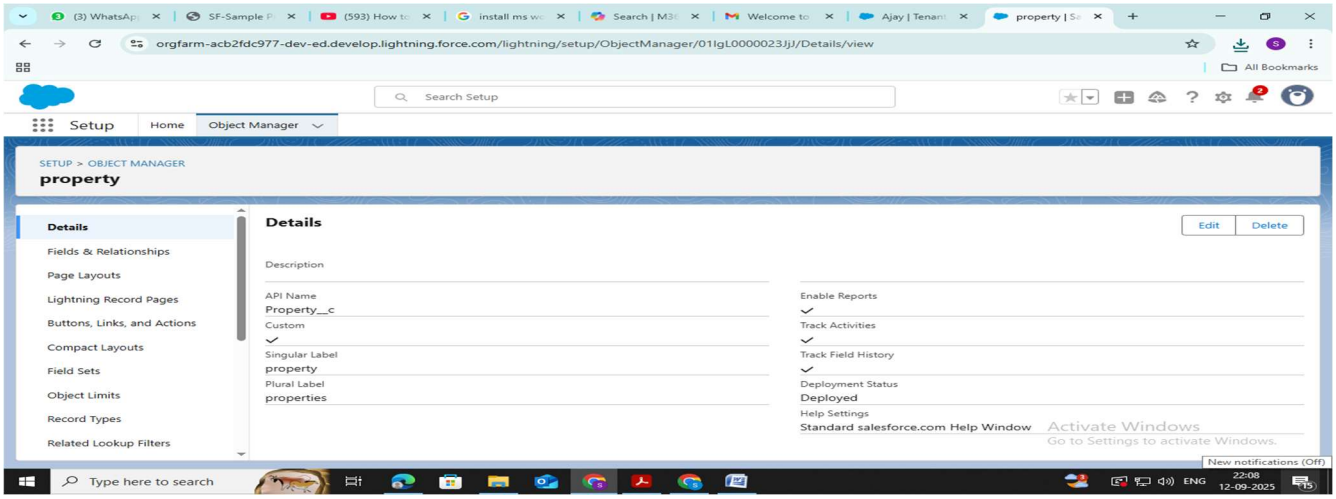
Creating Developer Account:

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

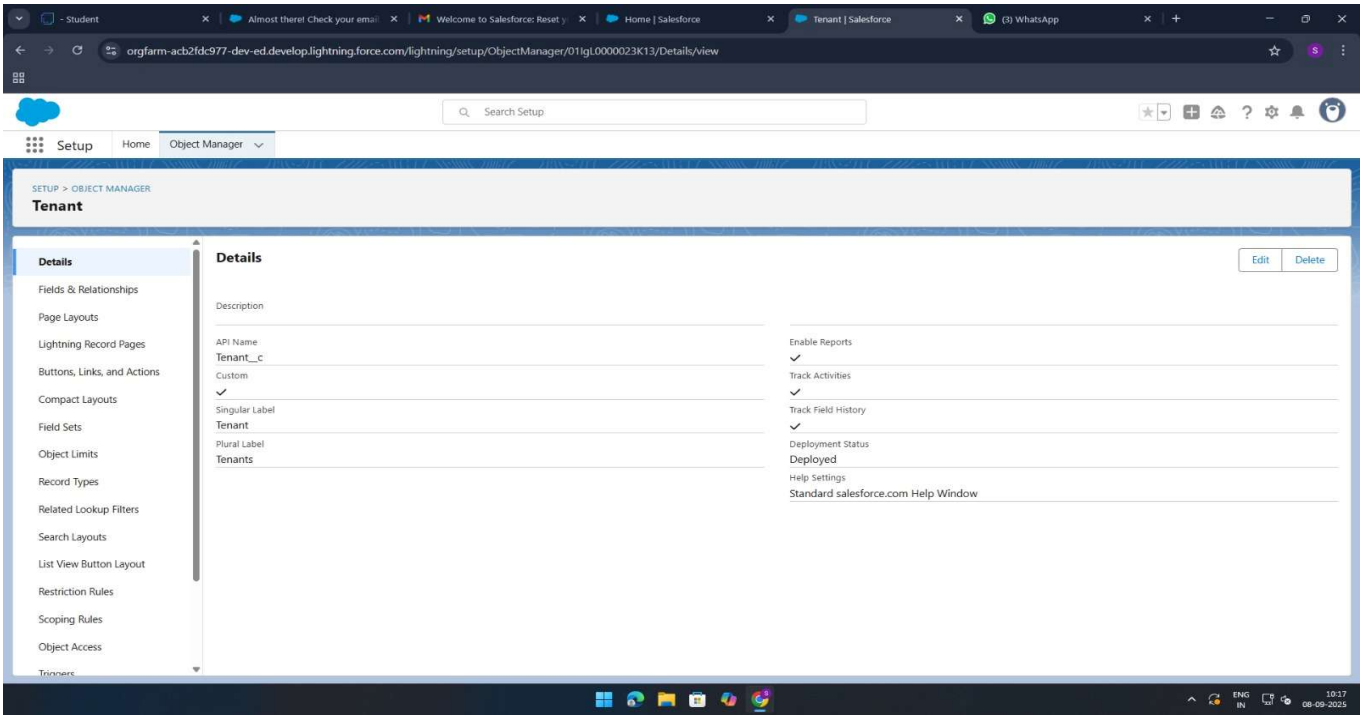


2.Created objects

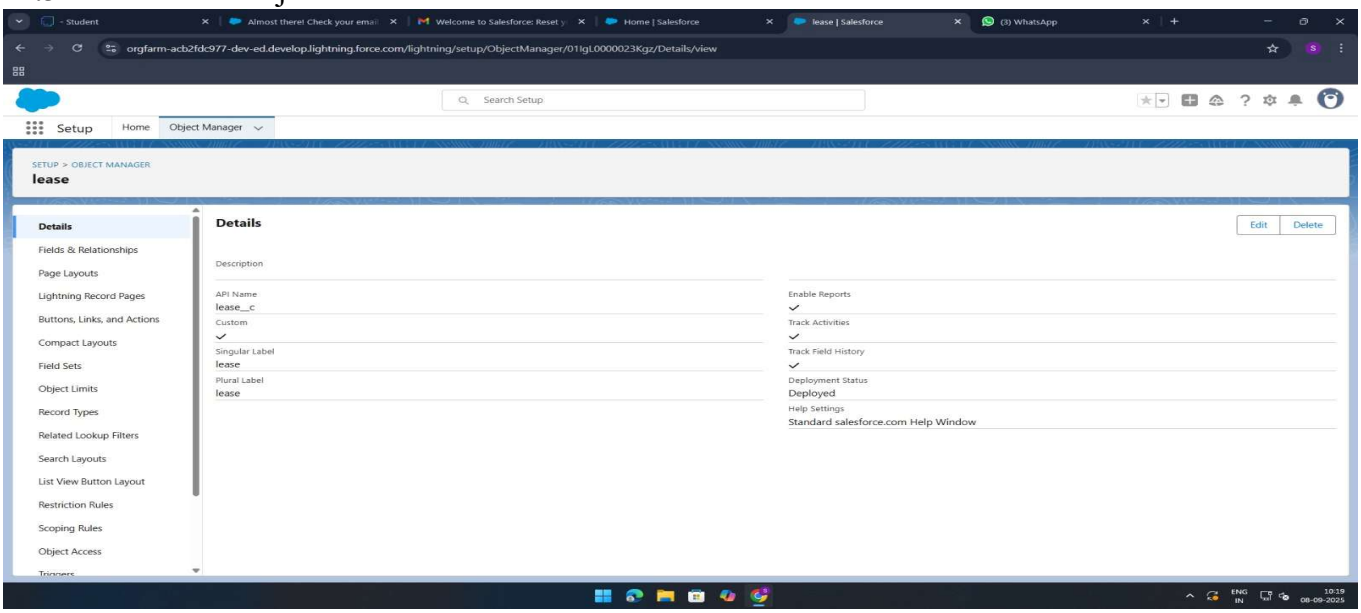
2.1 Create Property object



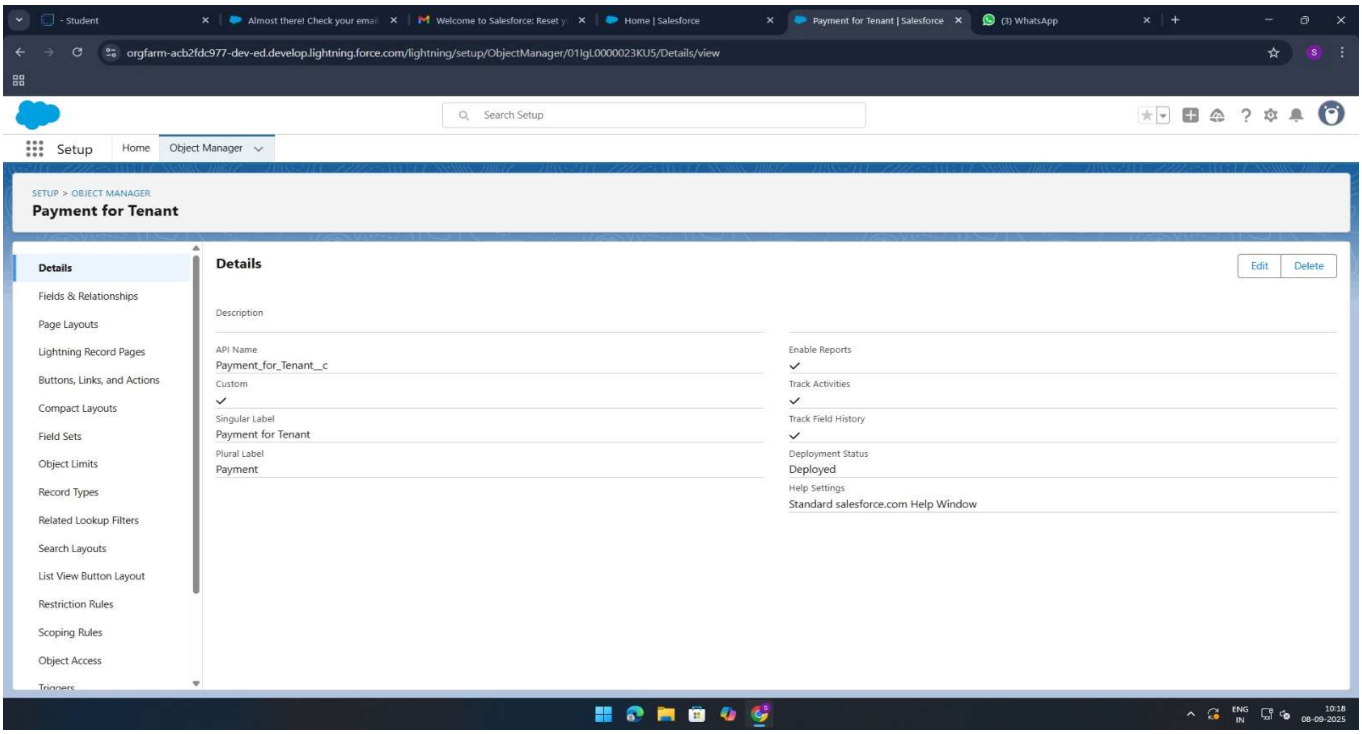
2.2 Create Tenant object



2.3 Create lease object

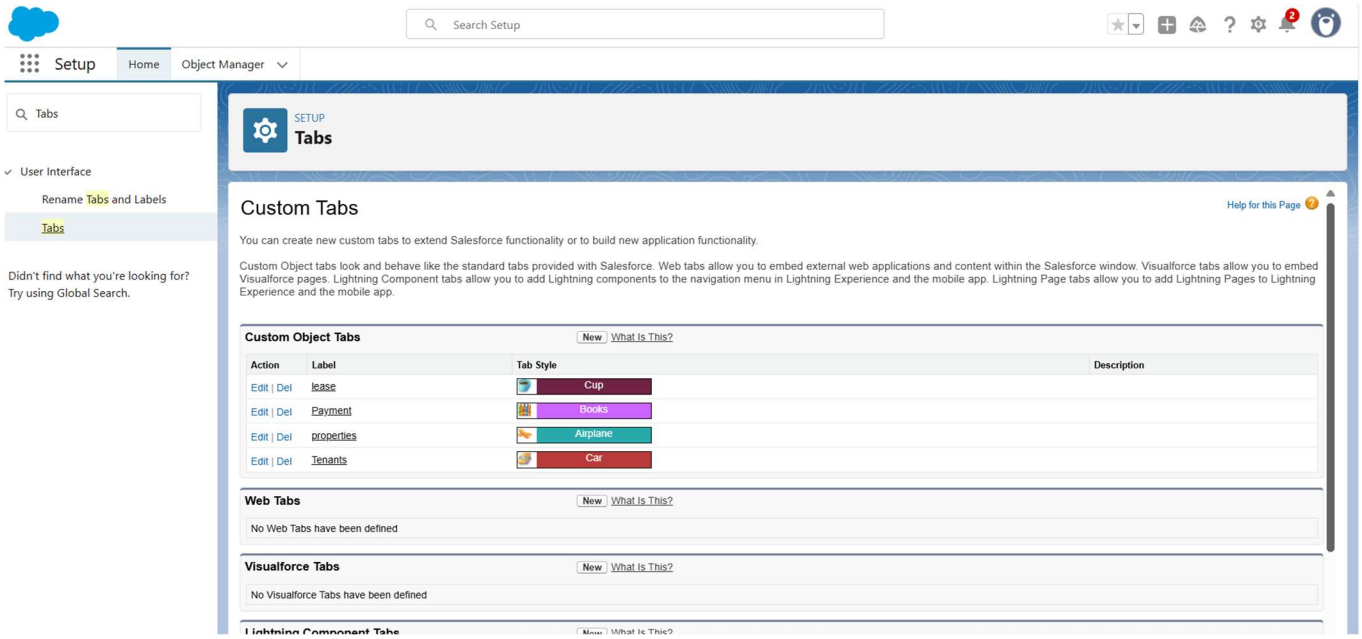


2.4 Create payment for tenant object

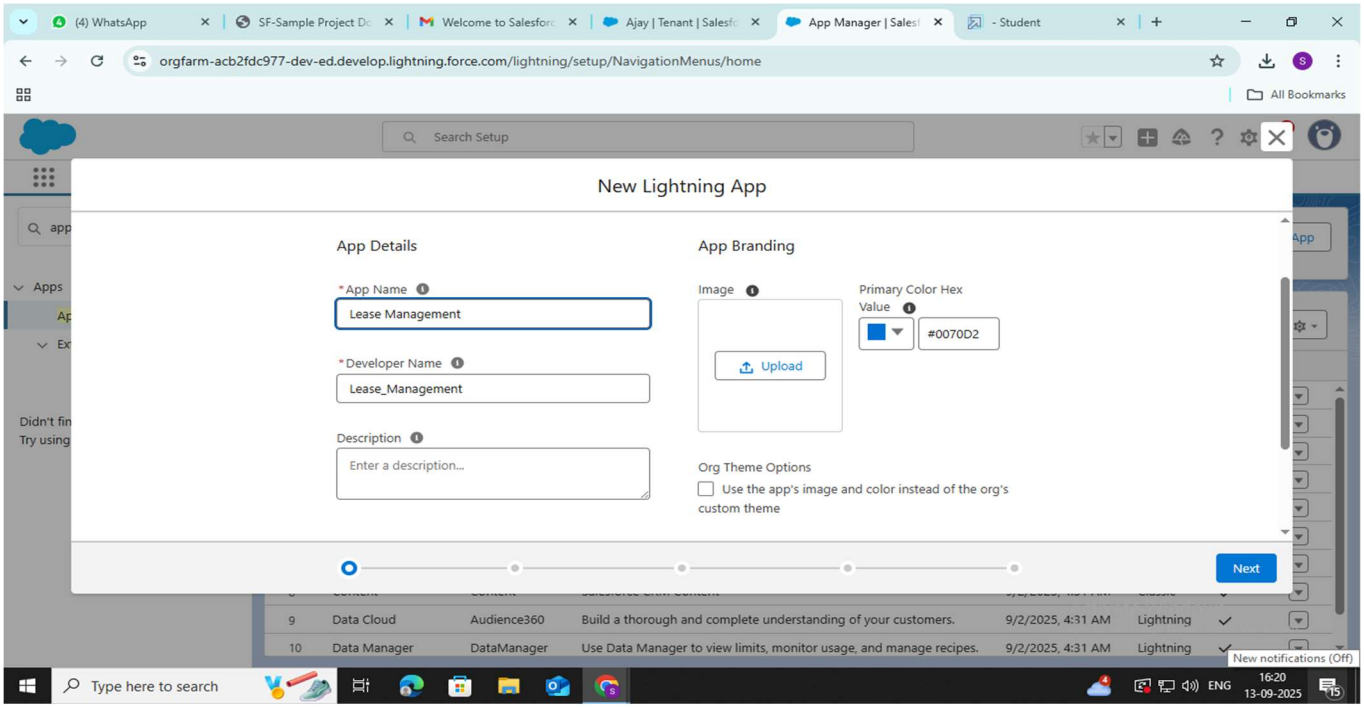


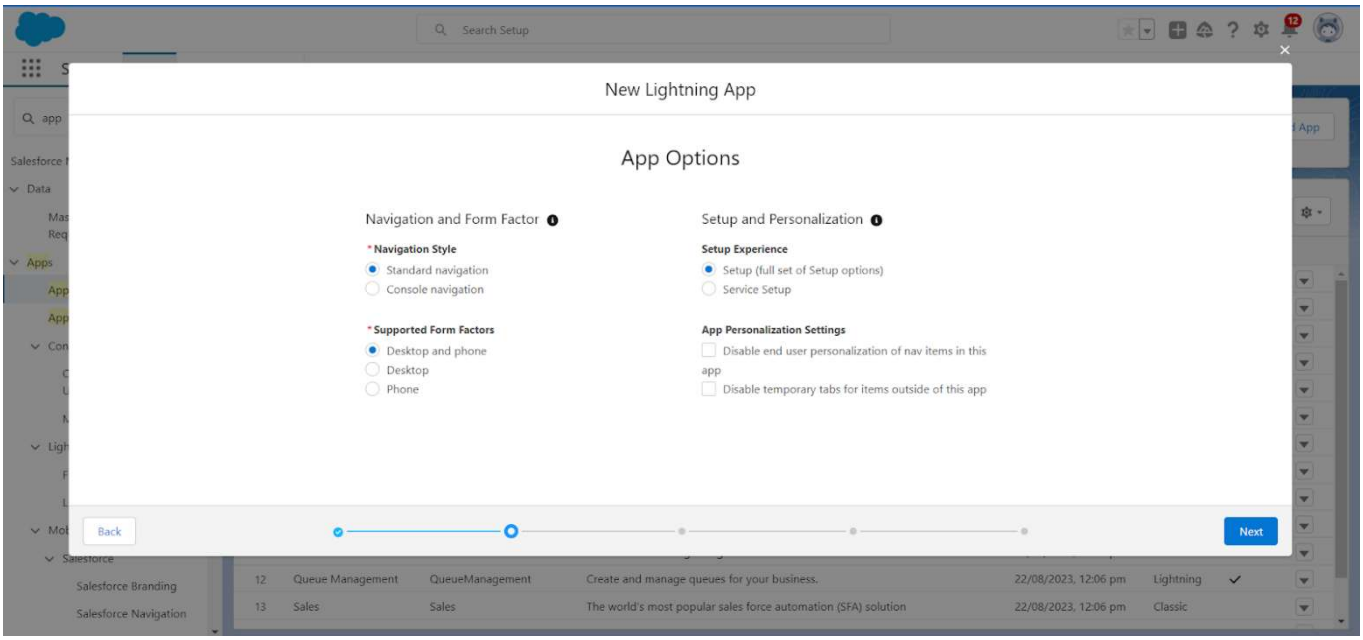
3.Tabs

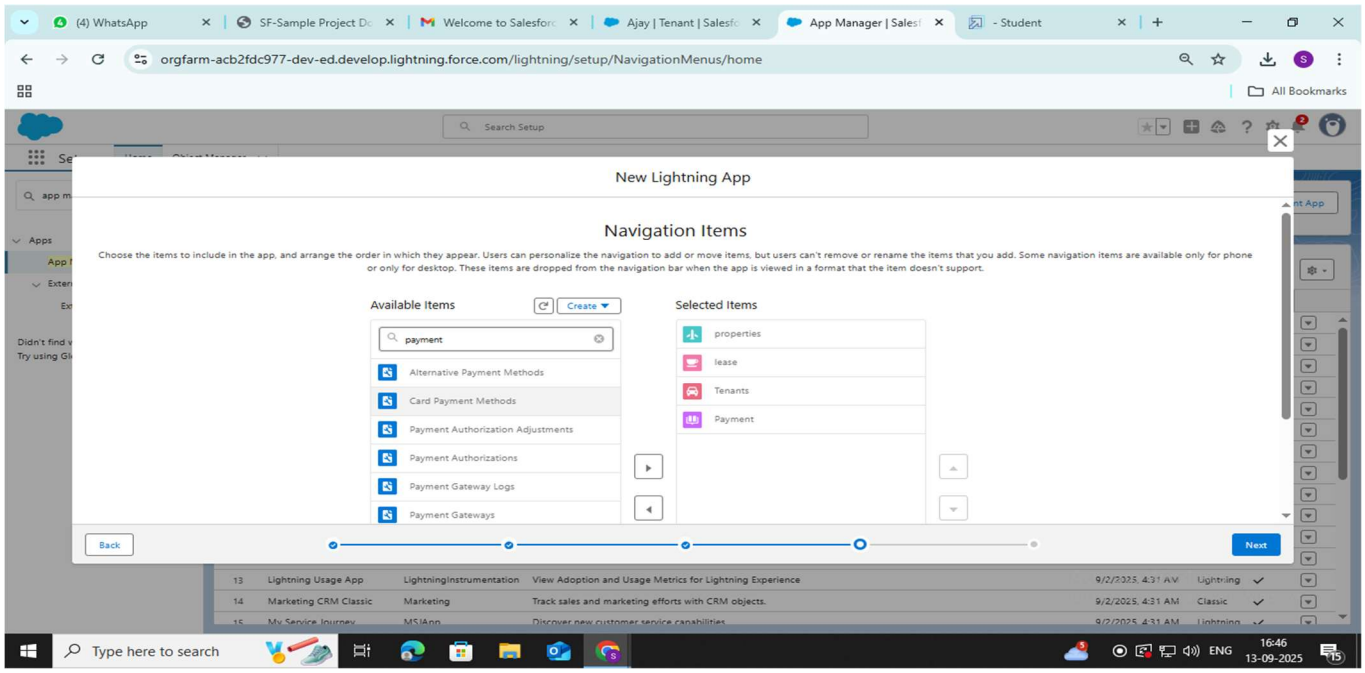
Creating custom tabs with tab styles

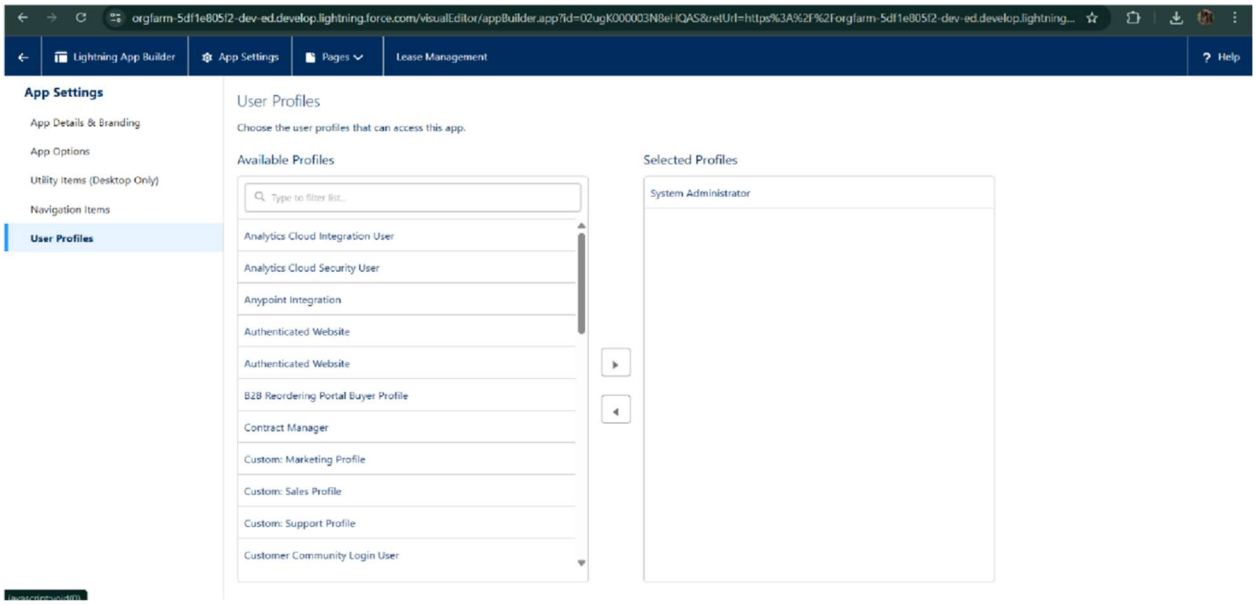


4.Developed Lightning App with relevant tabs



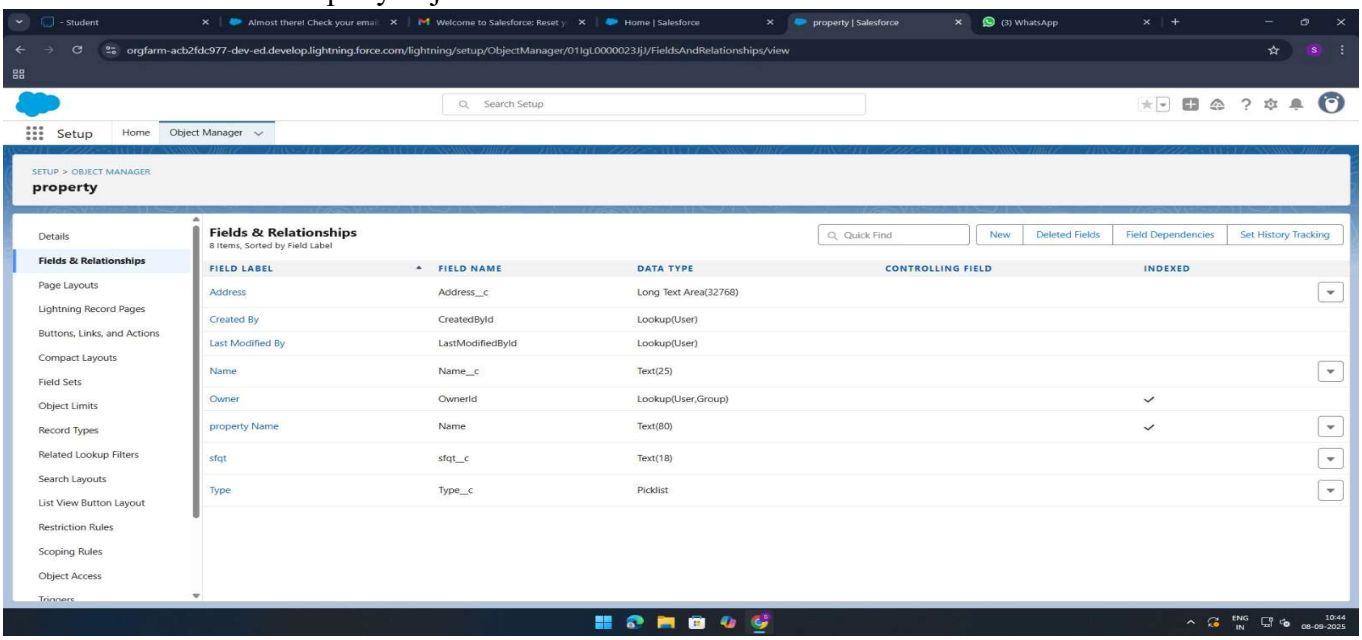



New Lightning App
Navigation Items
Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. 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
payment
Alternative Payment Methods
Card Payment Methods
Payment Authorization Adjustments
Payment Authorizations
Payment Gateway Logs
Payment Gateways
Selected Items
properties
lease
Tenants
Payment
Back
Next
Type here to search
ENG
16:46
13-09-2025

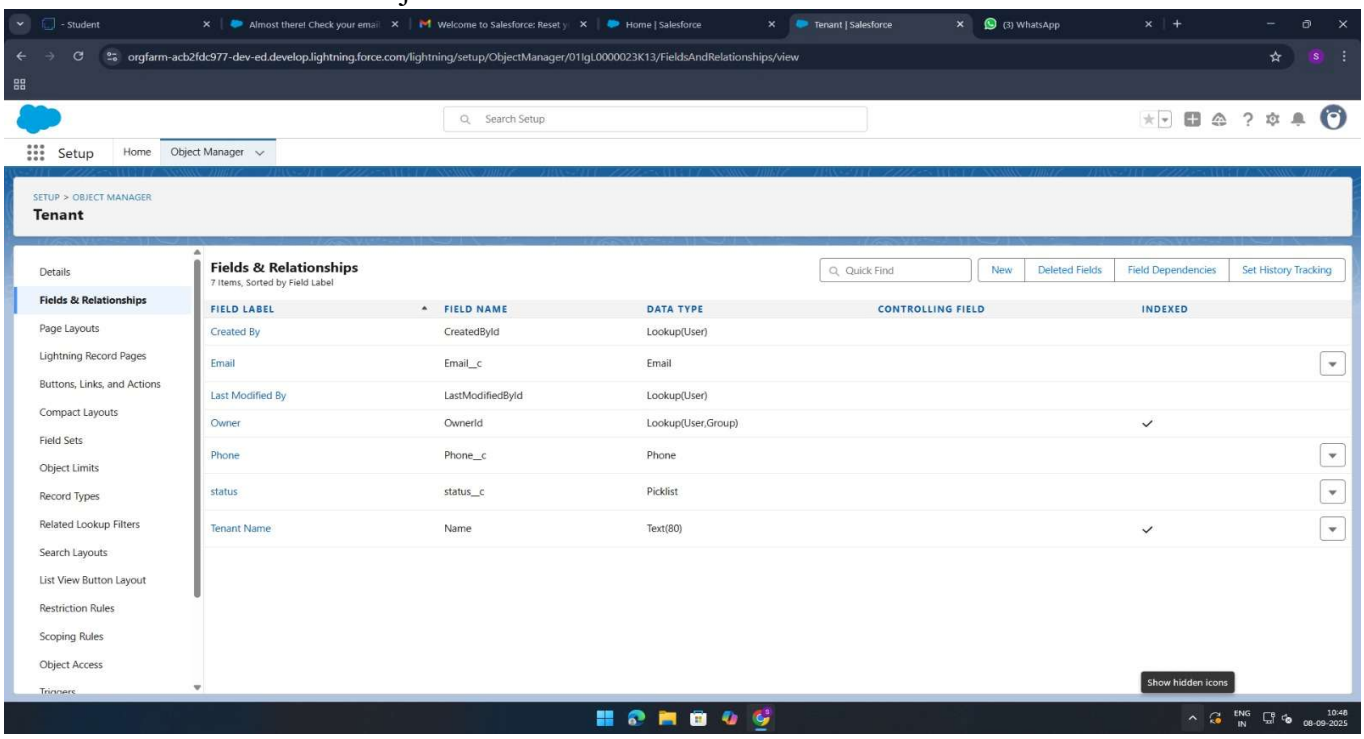

Lightning App Builder
App Settings
Pages
Lease Management
Help
App Settings
App Details & Branding
App Options
Utility Items (Desktop Only)
Navigation Items
User Profiles
User Profiles
Choose the user profiles that can access this app.
Available Profiles
Type to filter list...
Analytics Cloud Integration 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

5.Configured fields and relationships

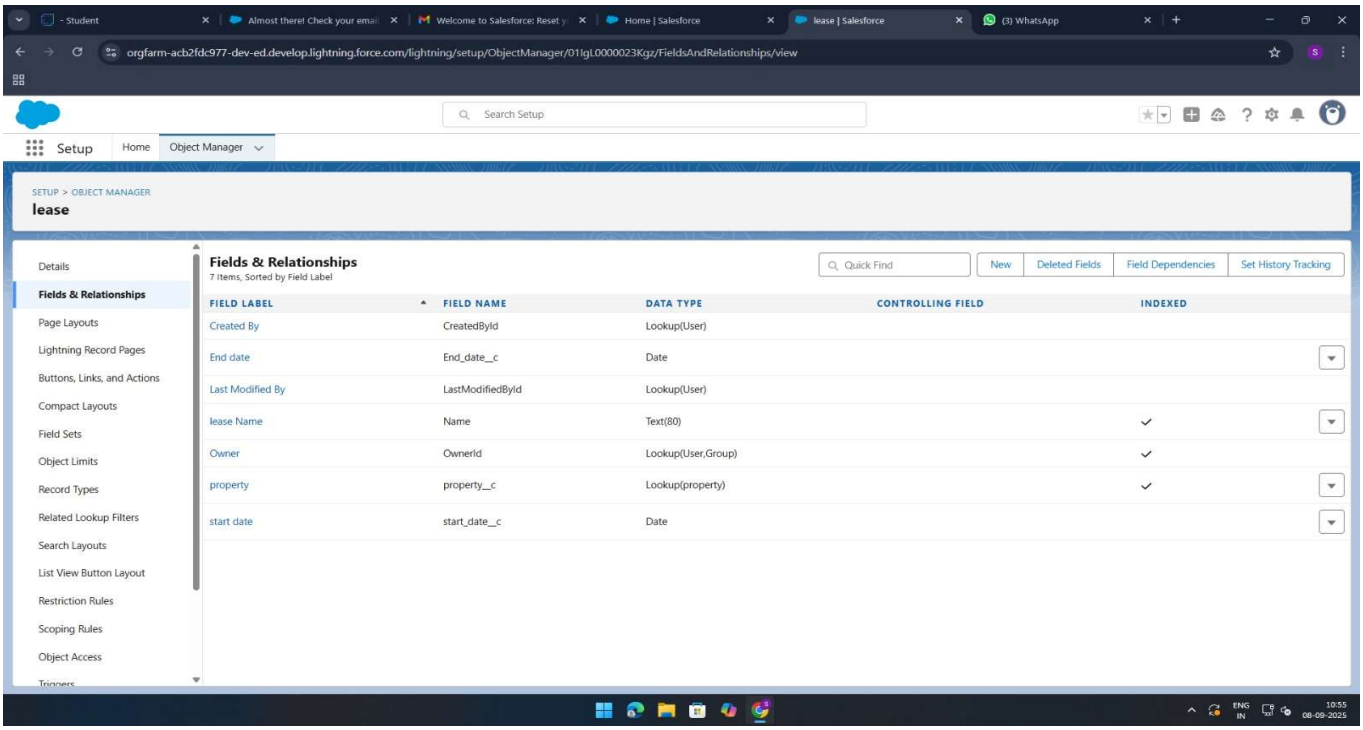
5.1 Create fields for Property object



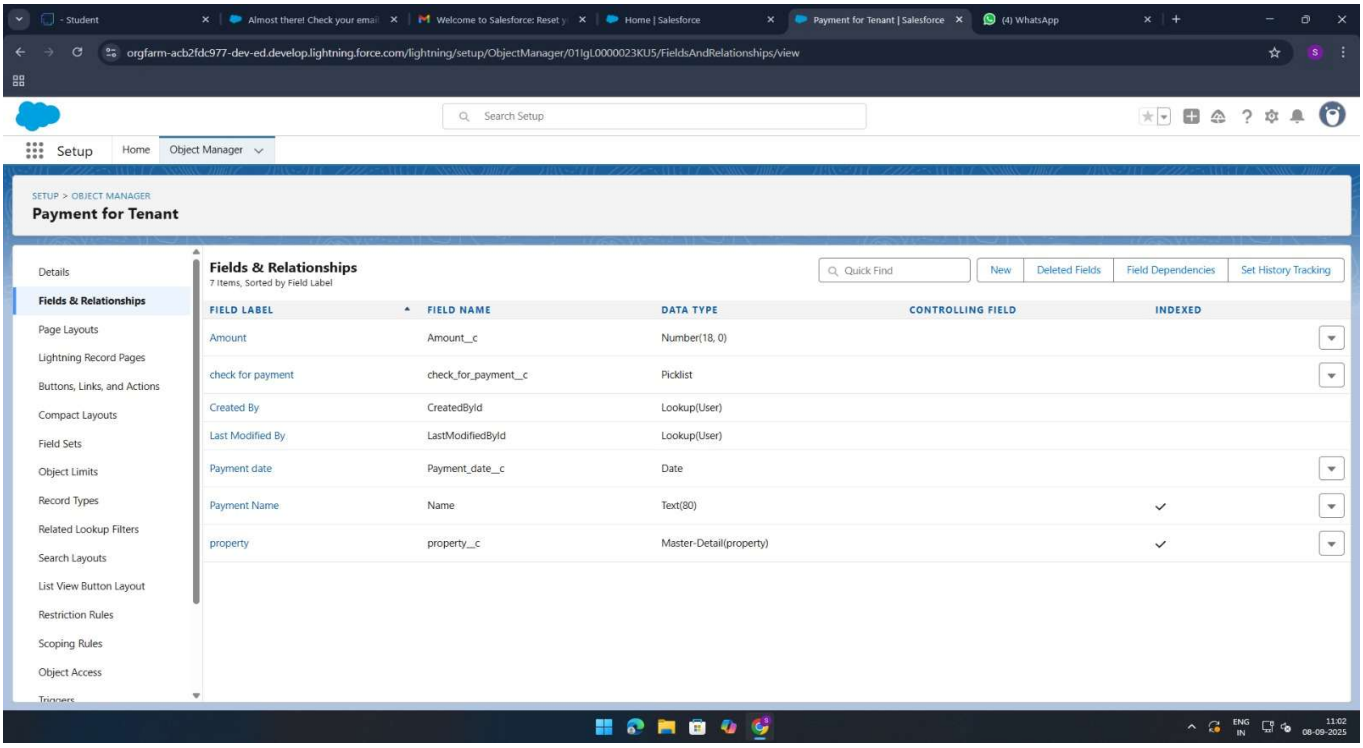
5.2 Create fields for Tenant object



5.3 Create fields for lease object

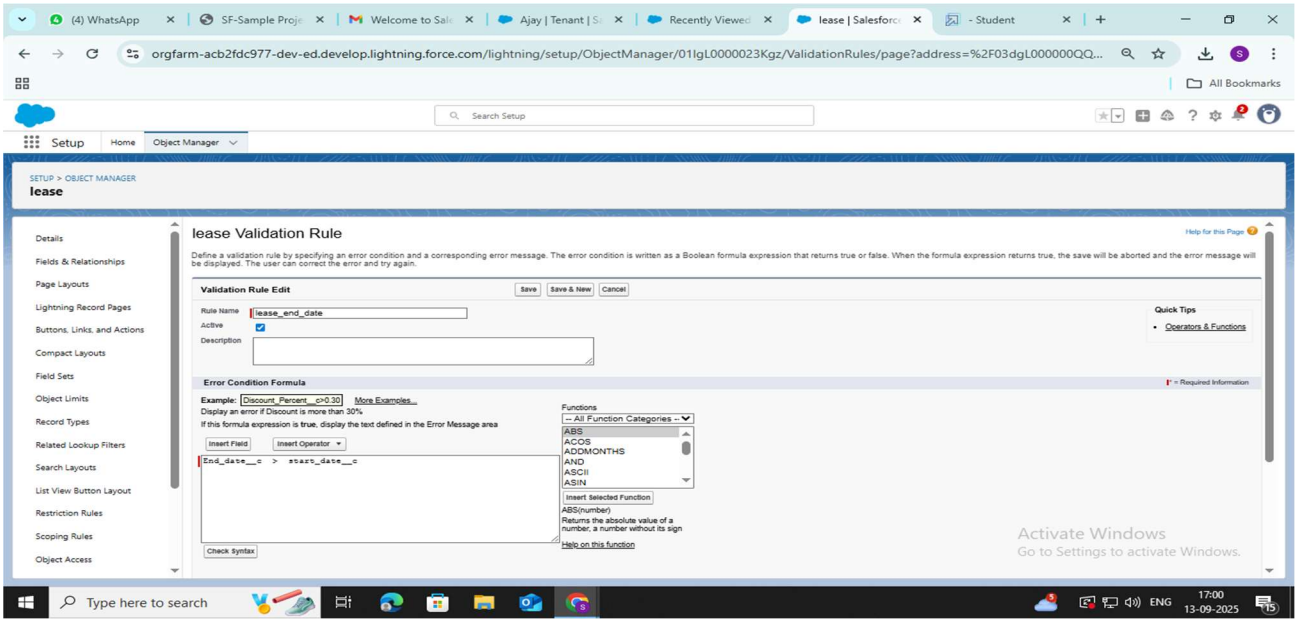


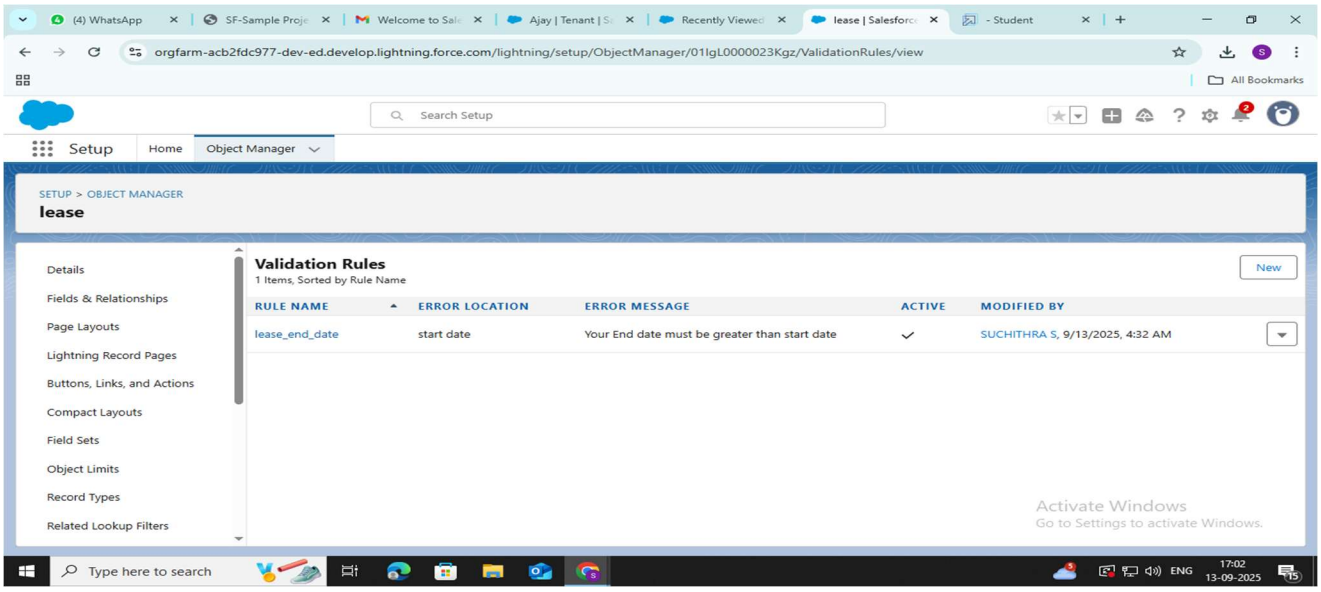
5.4 Create fields for Payment for tenant object



6. Validation Rule

- To create a validation rule to a Lease Object

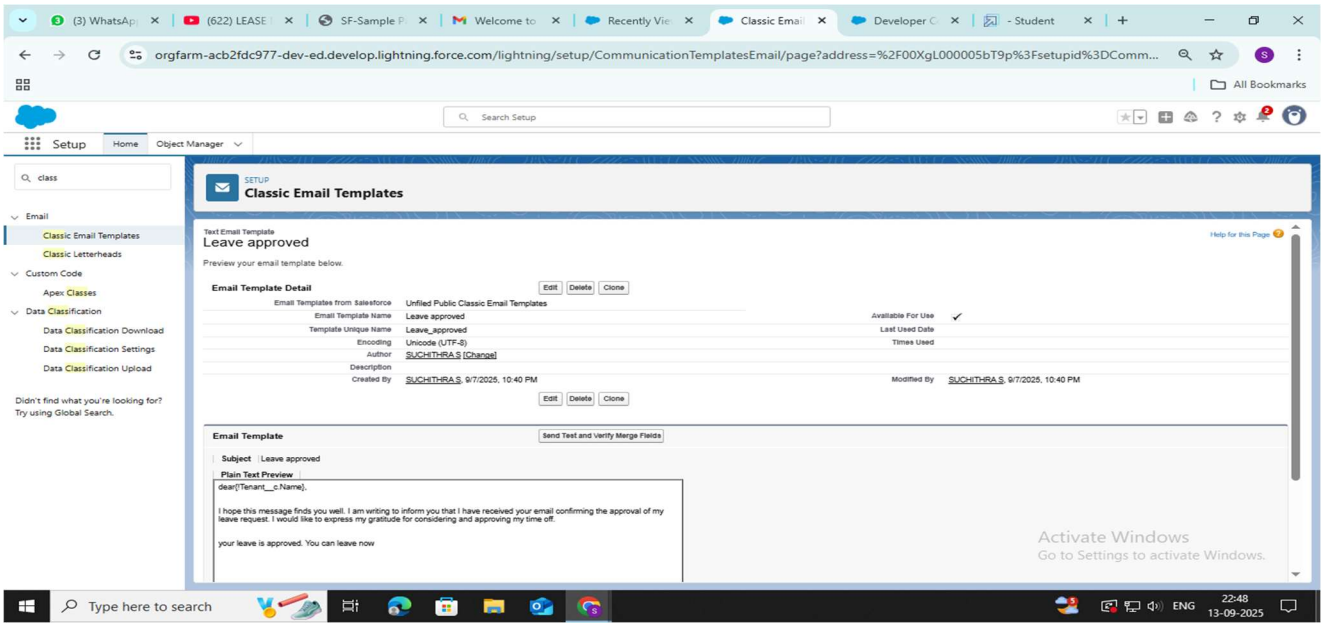




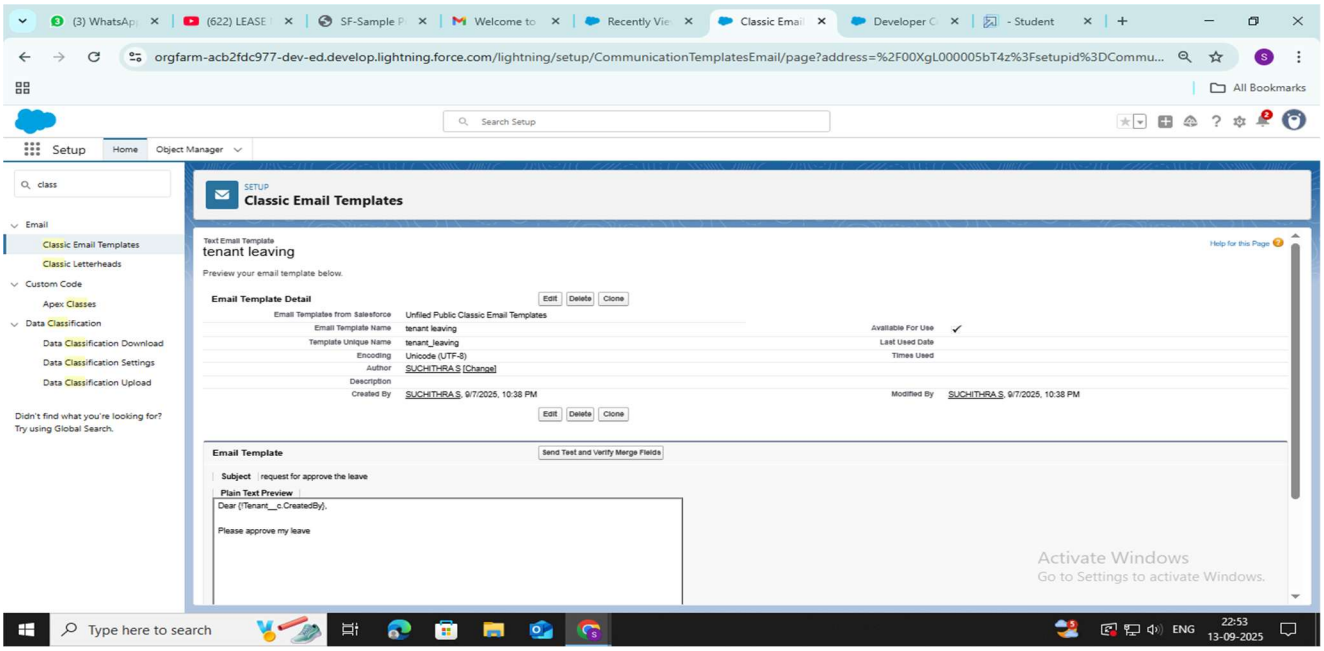
7. Email Template

- Built and tested email templates for tenant leave , leave approval, rejection, monthly payment, and successful payment

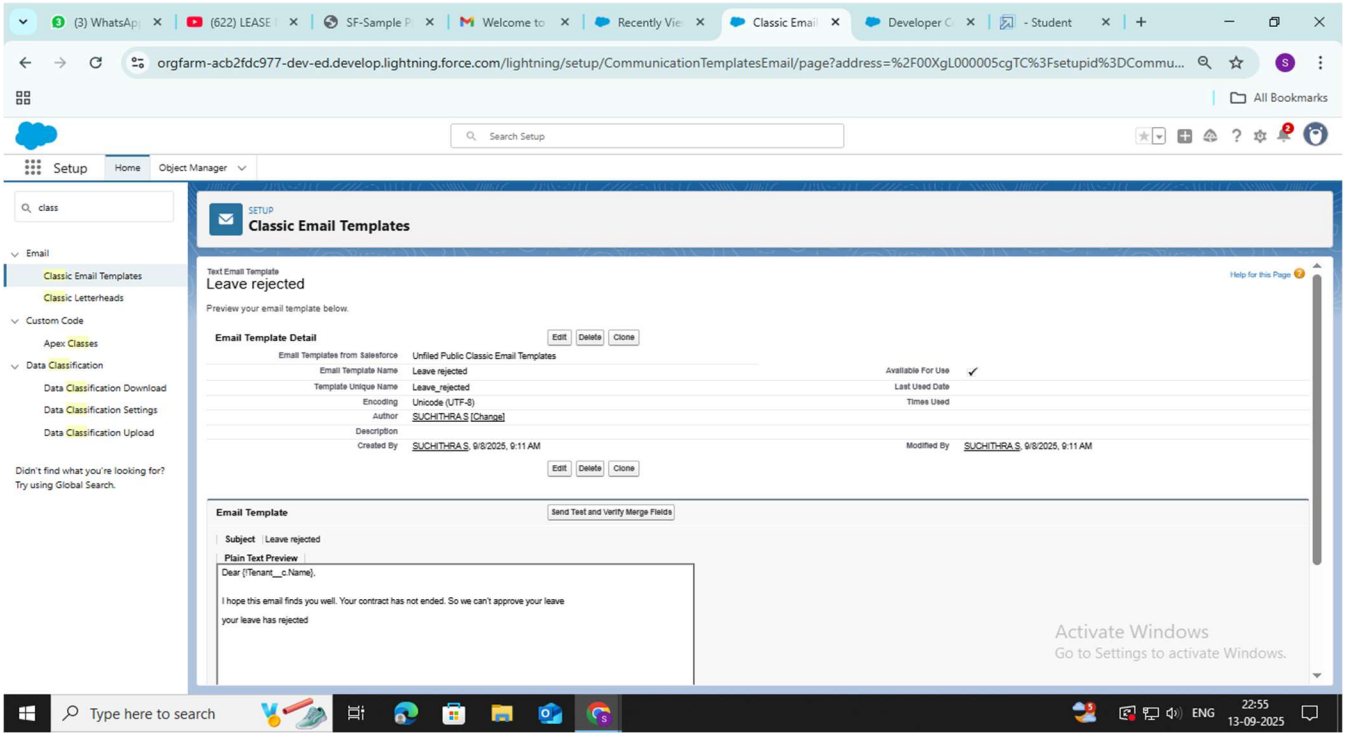
7.1



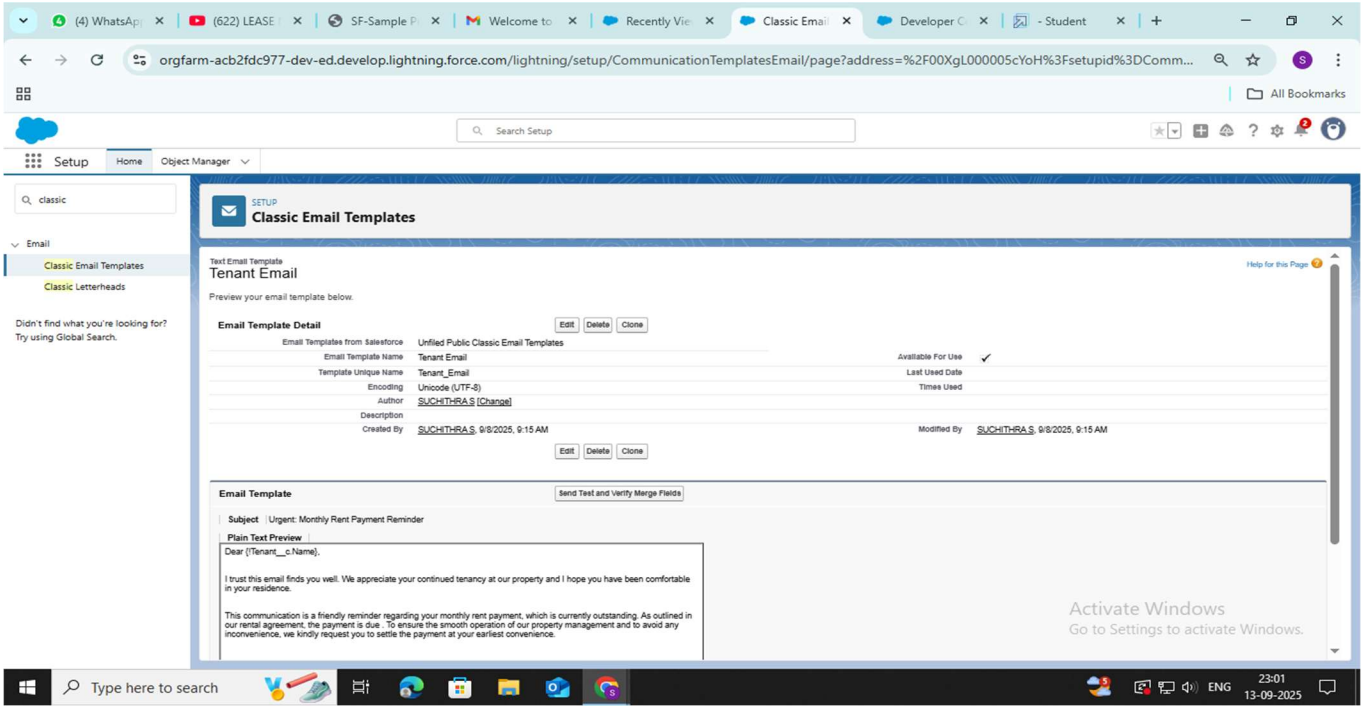
7.2



7.3

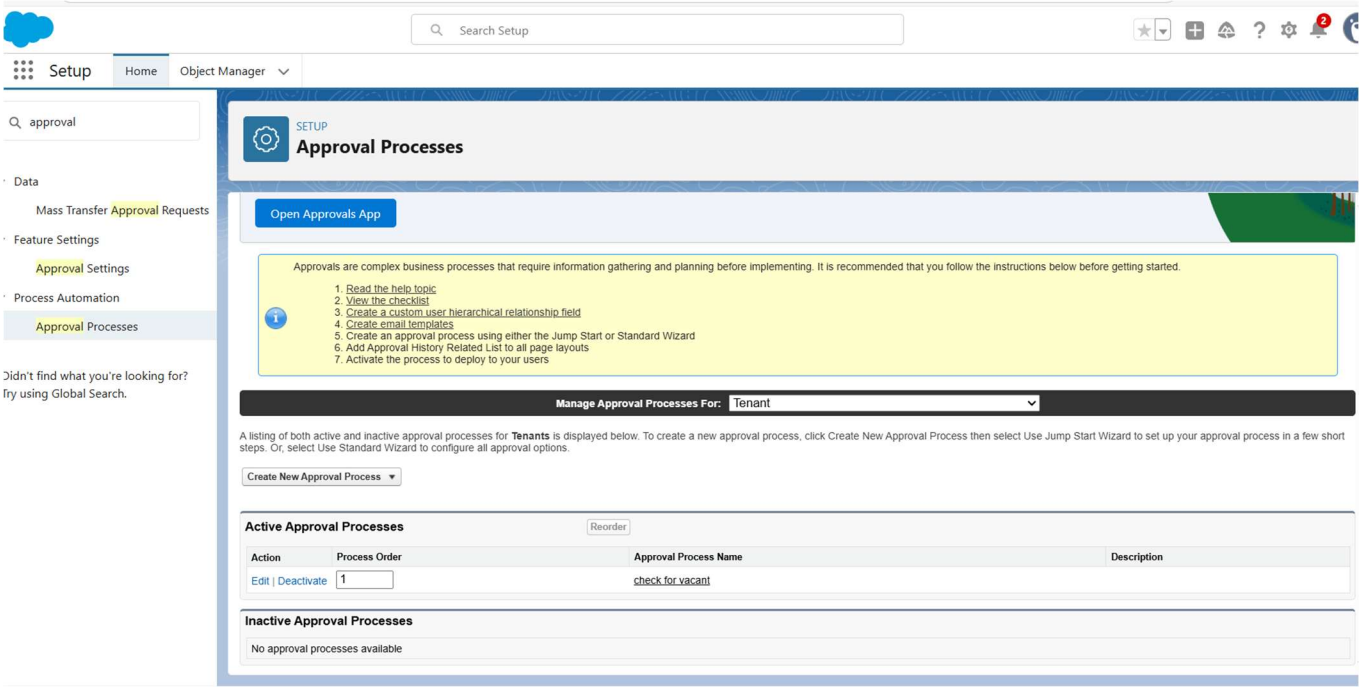

orgfarm-acb2fdc977-dev-ed.develop.lightning.force.com/lightning/setup/CommunicationTemplatesEmail/page?address=%2F00XgL000005cgTC%3Fsetupid%3DCommu...
Search Setup
Setup
Home
Object Manager
class
Email
Classic Email Templates
Classic Letterheads
Custom Code
Apex Classes
Data Classification
Data Classification Download
Data Classification Settings
Data Classification Upload
Didn't find what you're looking for?
Try using Global Search.
SETUP
Classic Email Templates
Text Email Template
Leave rejected
Help for this Page
Preview your email template below.
Email Template Detail
Edit
Delete
Clone
Email Templates from Salesforce
Unfiled Public Classic Email Templates
Email Template Name
Leave rejected
Template Unique Name
Leave_rejected
Encoding
Unicode (UTF-8)
Author
SUCHITHRA S [Change]
Description
Created By
SUCHITHRA S, 9/8/2025, 9:11 AM
Available For Use
Last Used Date
Times Used
Modified By
SUCHITHRA S, 9/8/2025, 9:11 AM
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
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
22:55
13-09-2025

7.4

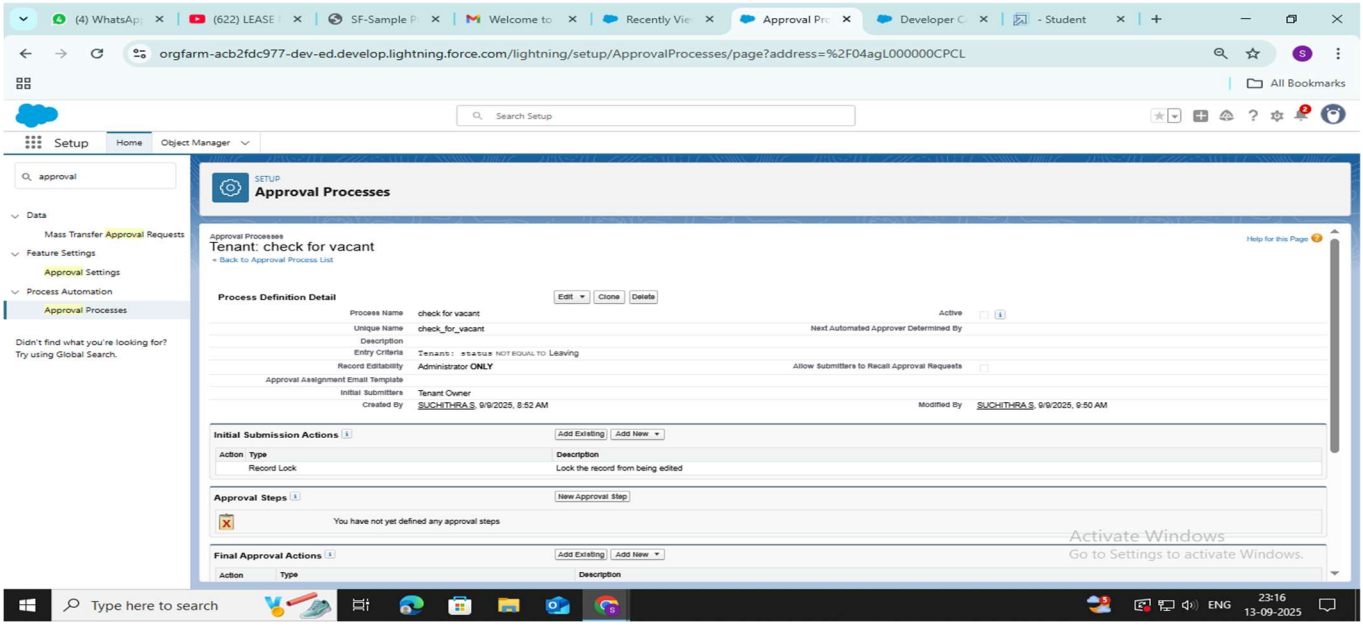

orgfarm-acb2fdc977-dev-ed.develop.lightning.force.com/lightning/setup/CommunicationTemplatesEmail/page?address=%2F00XgL000005cYoH%3Fsetupid%3DComm...
Search Setup
Setup
Home
Object Manager
classic
Email
Classic Email Templates
Classic Letterheads
Didn't find what you're looking for?
Try using Global Search.
SETUP
Classic Email Templates
Text Email Template
Tenant Email
Help for this Page
Preview your email template below.
Email Template Detail
Edit
Delete
Clone
Email Templates from Salesforce
Unfiled Public Classic Email Templates
Email Template Name
Tenant Email
Template Unique Name
Tenant_Email
Encoding
Unicode (UTF-8)
Author
SUCHITHRA S [Change]
Description
Created By
SUCHITHRA S, 9/8/2025, 9:15 AM
Available For Use
Last Used Date
Times Used
Modified By
SUCHITHRA S, 9/8/2025, 9:15 AM
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, which is currently outstanding. As outlined in our rental agreement, the payment is due . To ensure the smooth operation of our property management and to avoid any inconvenience, we kindly request you to settle the payment at your earliest convenience.
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
23:01
13-09-2025

8. Approval Process creation

8.1 Check for Vacant:

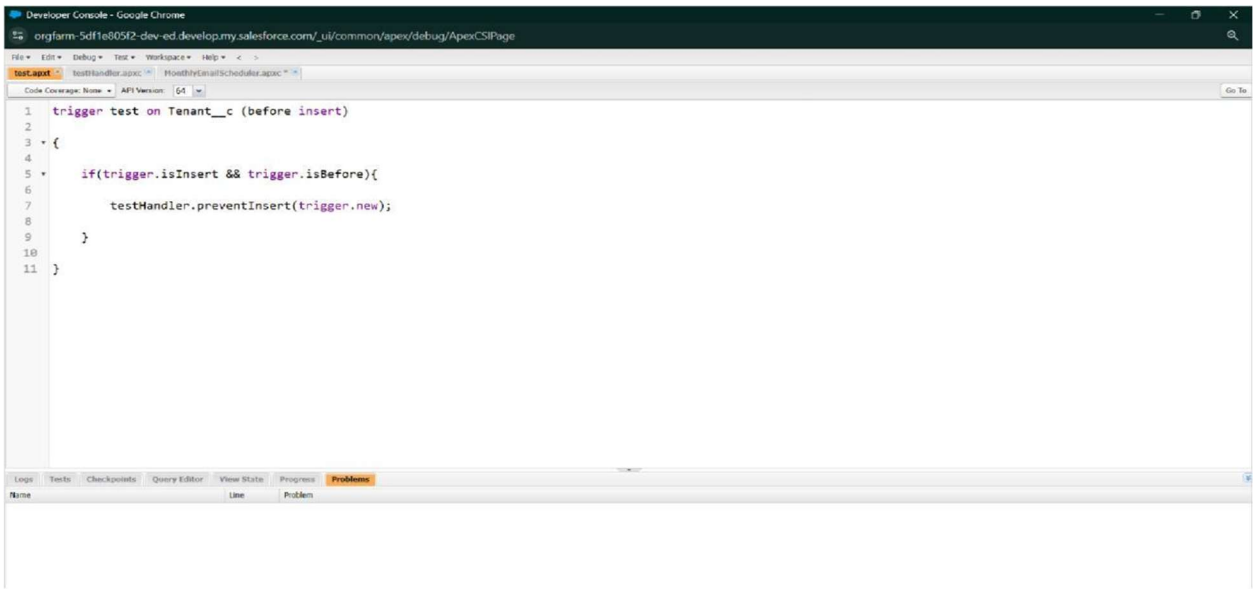


8.2 approval process details

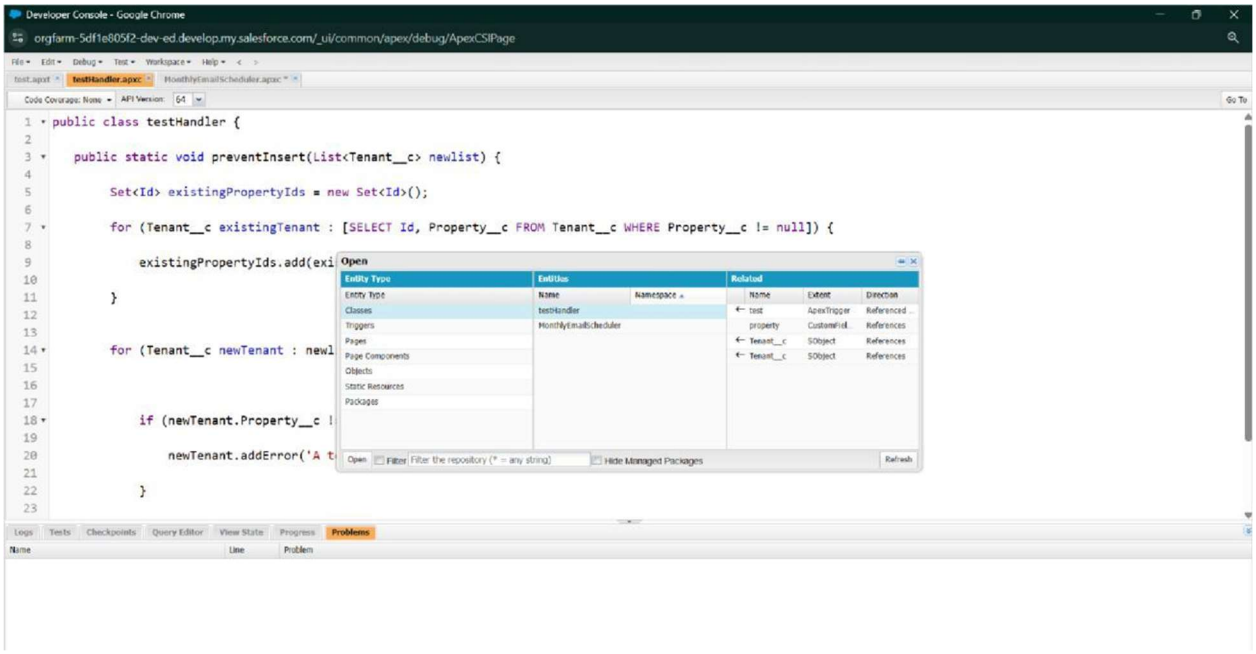


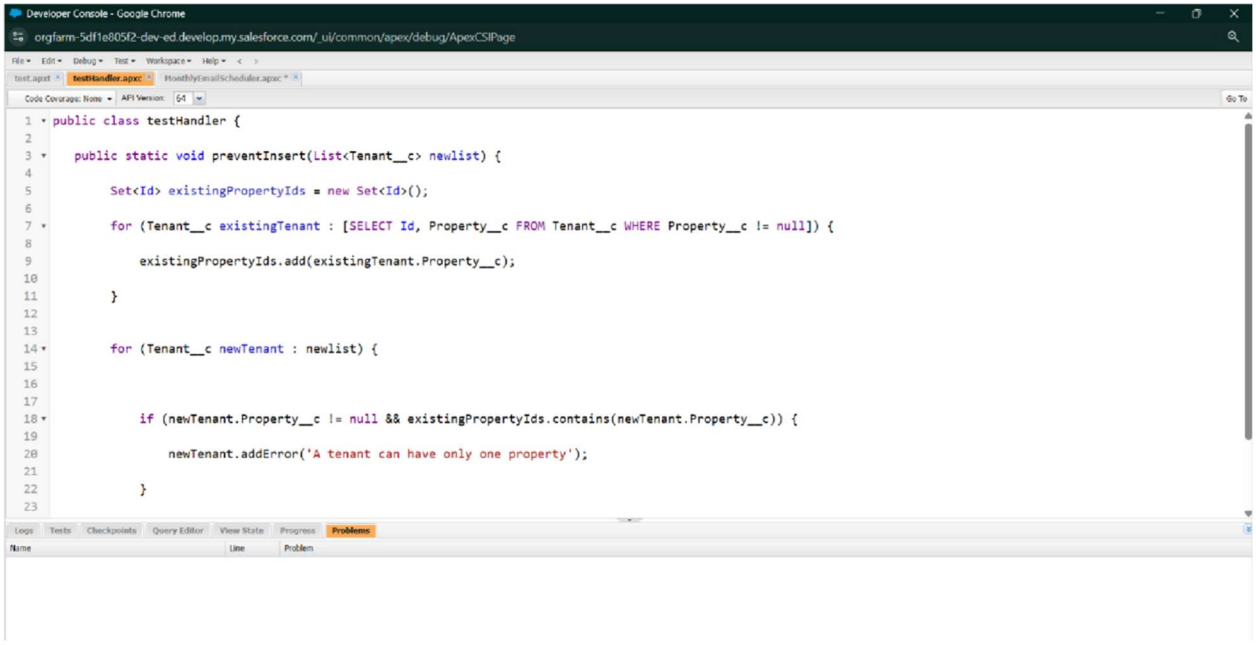
9.Apex Trigger

9.1 Create an Apex Trigger

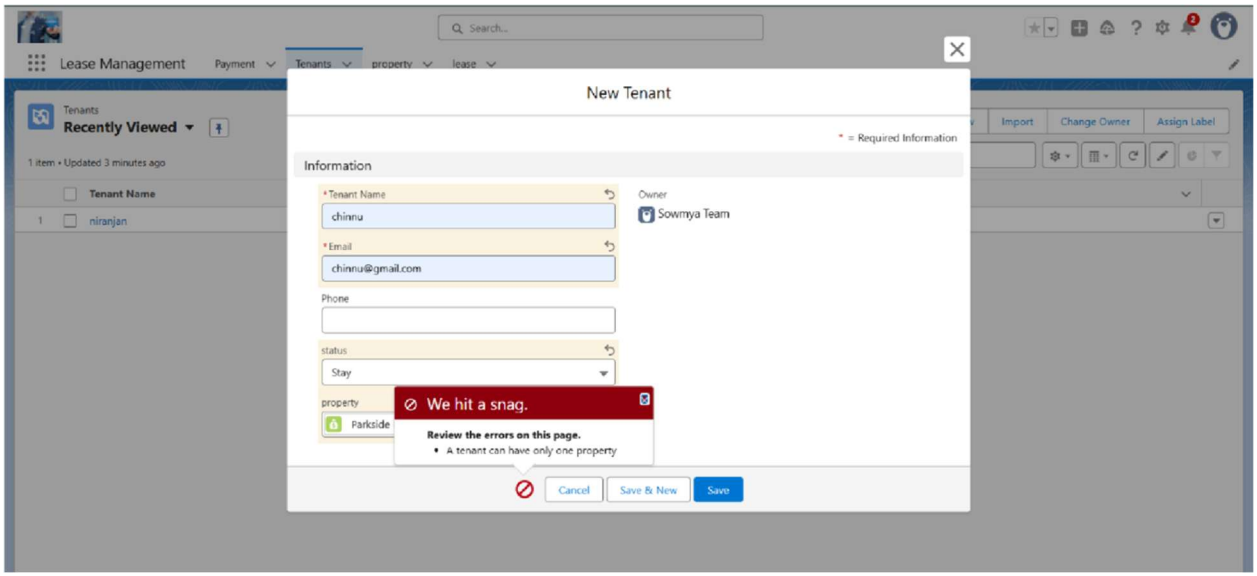


9.2 Create an Apex Handler class



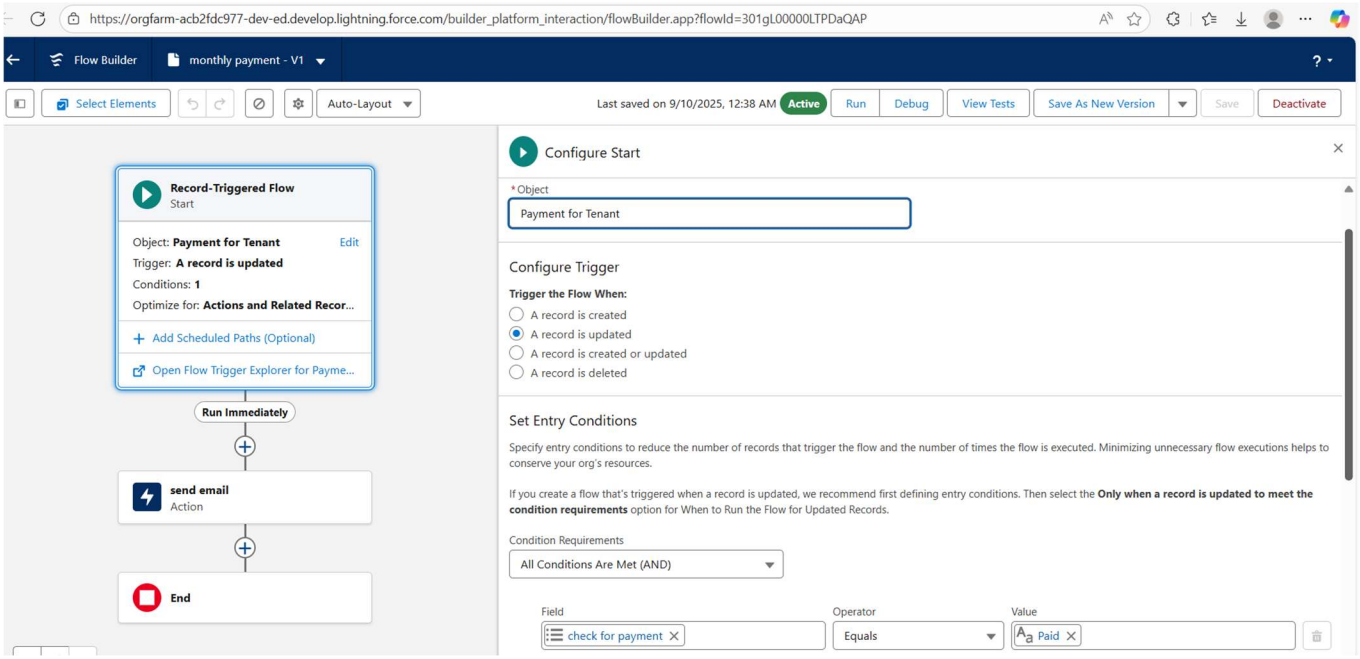


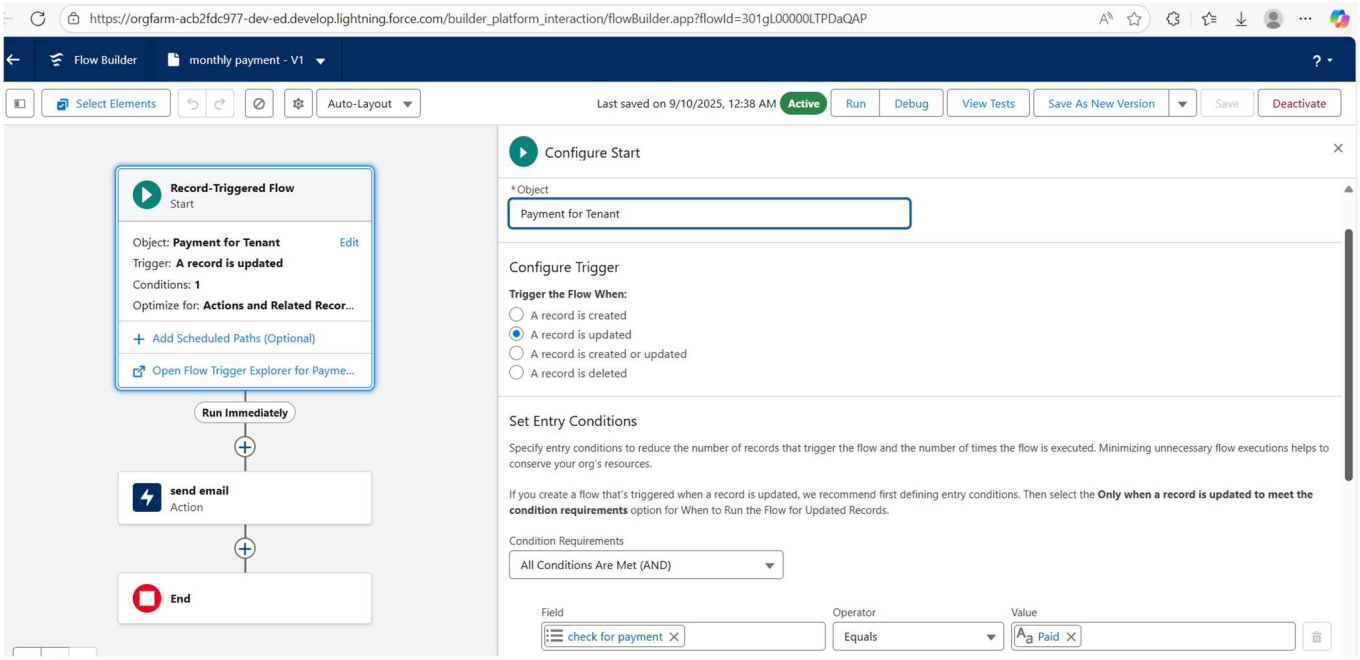
9.3 Testing the trigger



10. Flows

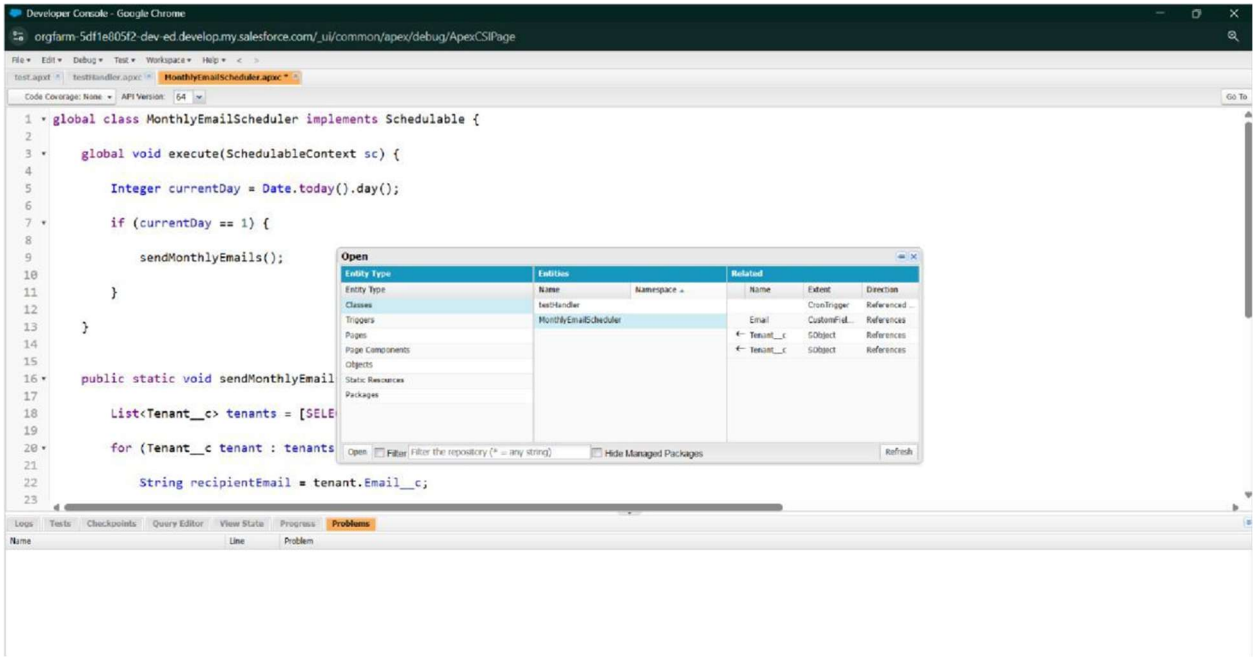
- Create flow for monthly payments

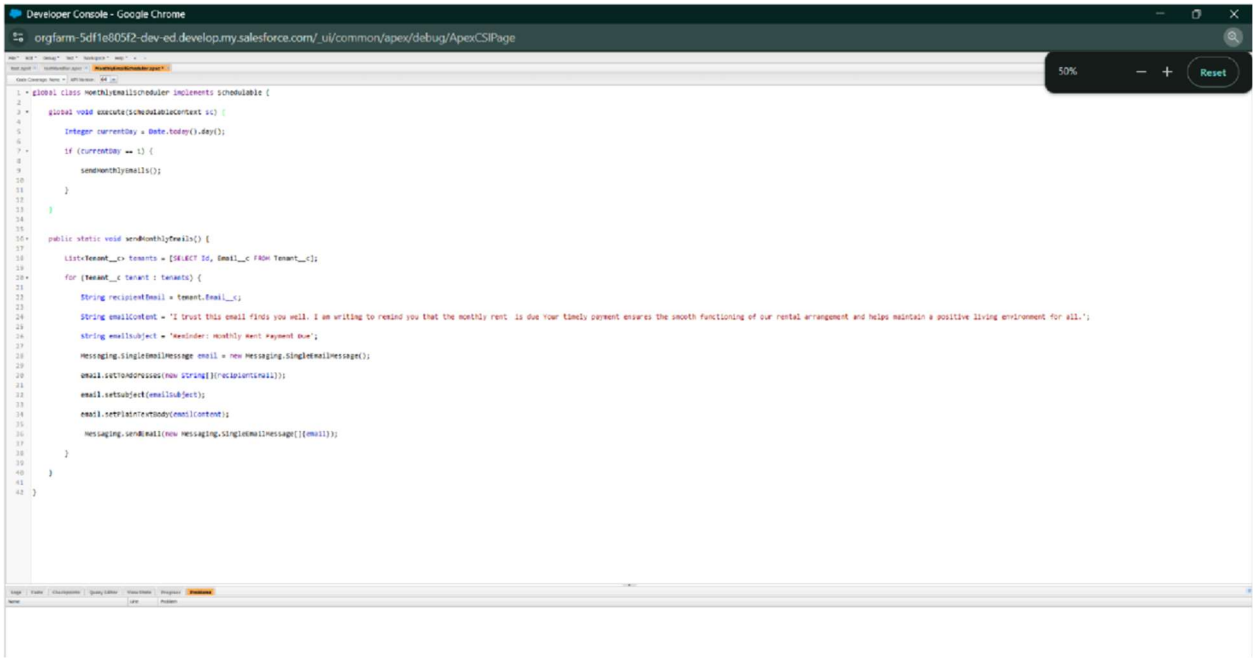




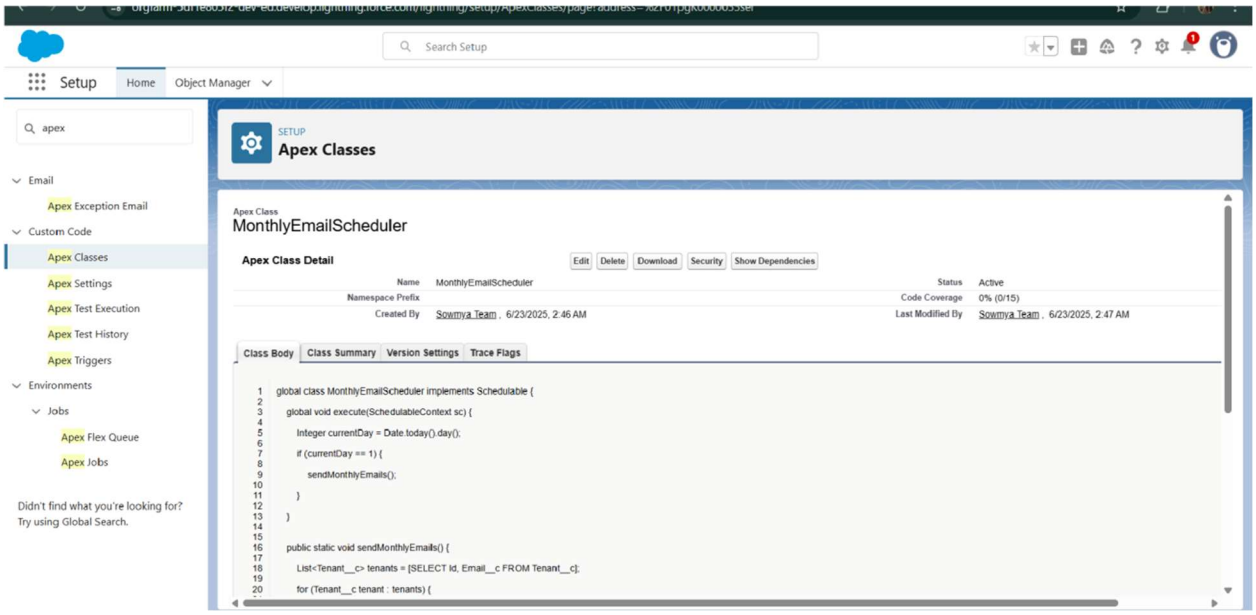
11.Schedule class:

11.1 Create an Apex Class

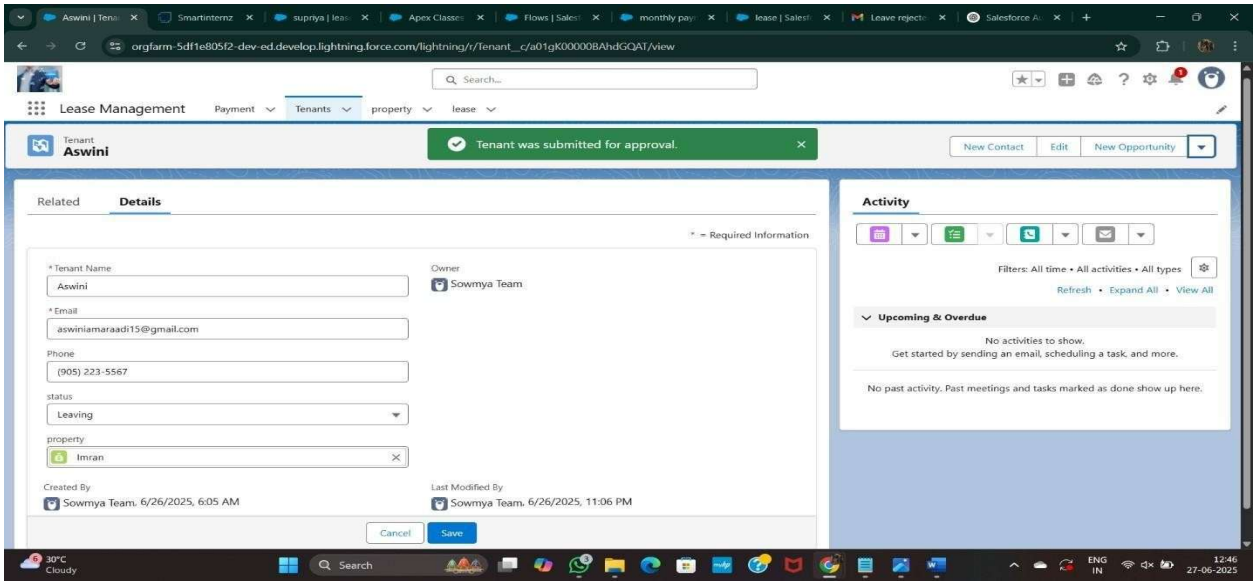


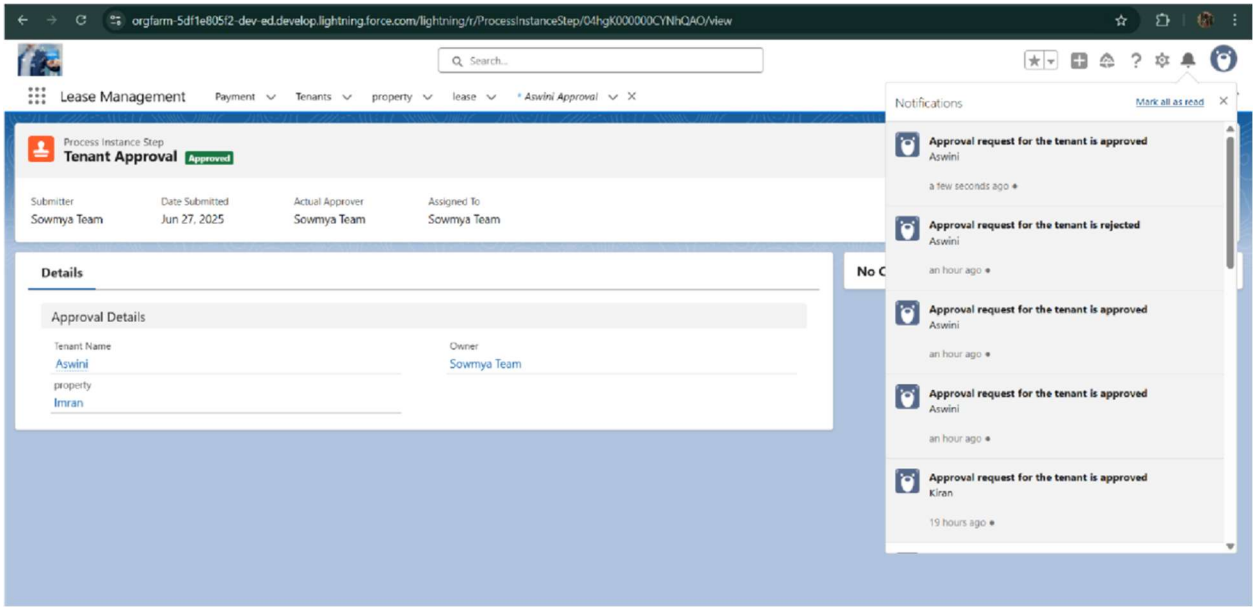


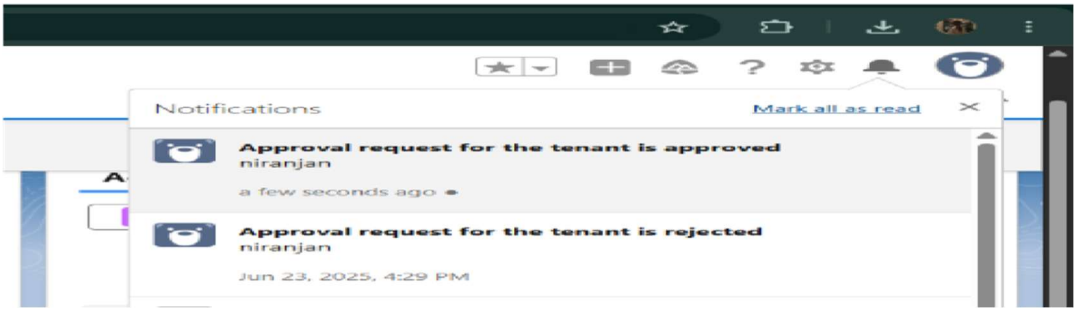
11.2 Schedule Apex class



11.3 Testing approval process



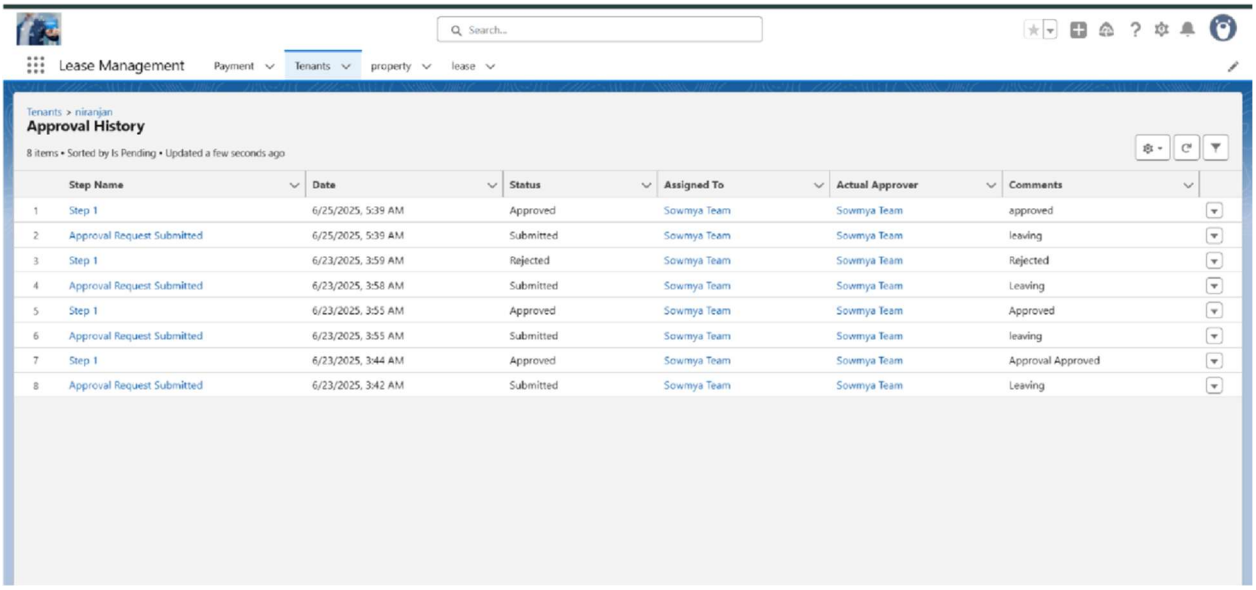

orgfarm-5df1e805f2-dev-ed.develop.lightning.force.com/lightning/r/ProcessInstanceStep/04hgK000000CYNhQAO/view
Search...
Lease Management
Payment
Tenants
property
lease
Aswini Approval
Process Instance Step
Tenant Approval
Approved
Submitter
Sowmya Team
Date Submitted
Jun 27, 2025
Actual Approver
Sowmya Team
Assigned To
Sowmya Team
Details
Approval Details
Tenant Name
Aswini
Owner
Sowmya Team
property
Imran
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


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

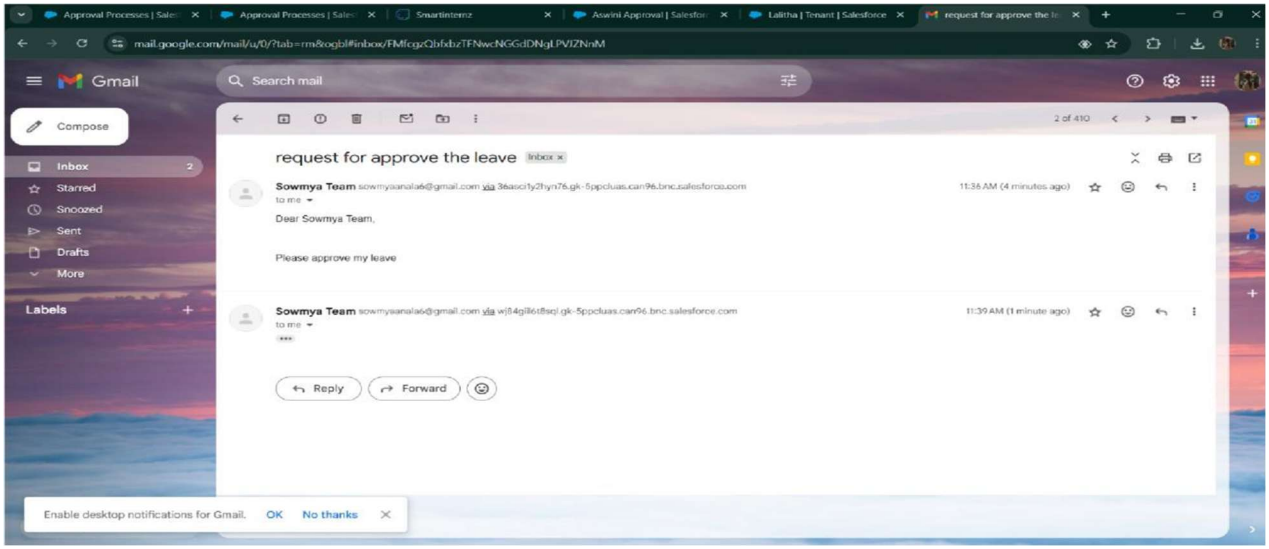
12.RESULTS

Output Screenshots

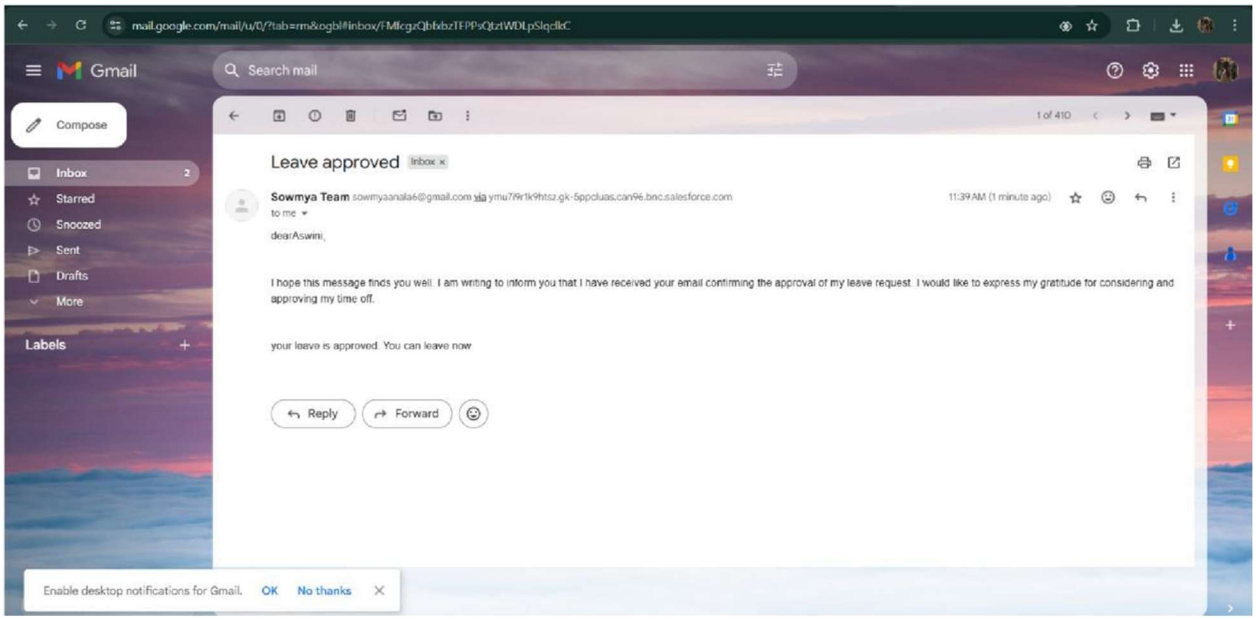
- Email alerts



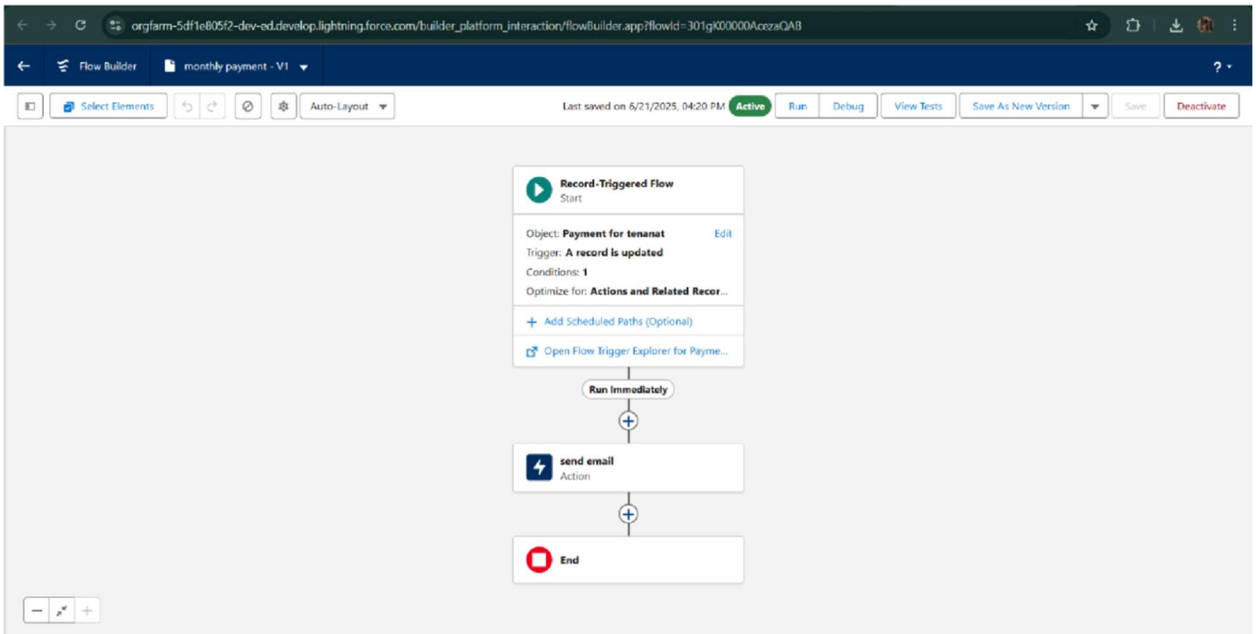
- Request for approve the leave



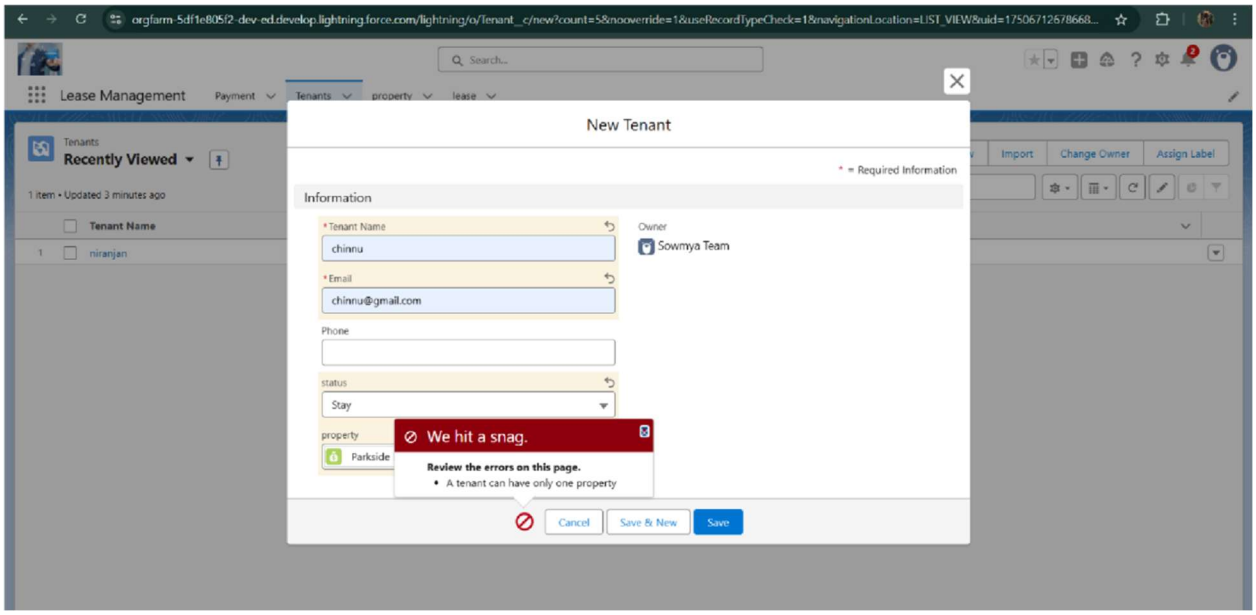
- Leave approved



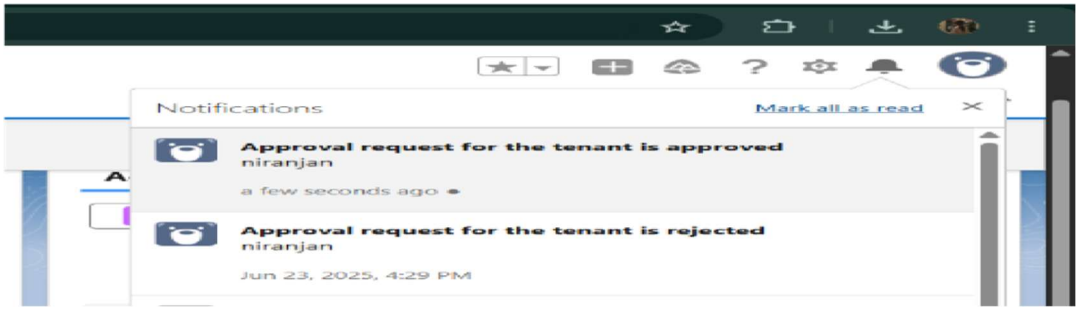
- Flow runs



- Trigger error messages



- Approval process notifications



13. 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});

            }

        }

}
```