LeaseManagement

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AND SCIENCE COLLEGE

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1.INTRODUCTION

Project Overview

The Lease Management System is a Sales force –based application designed to stream line 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.



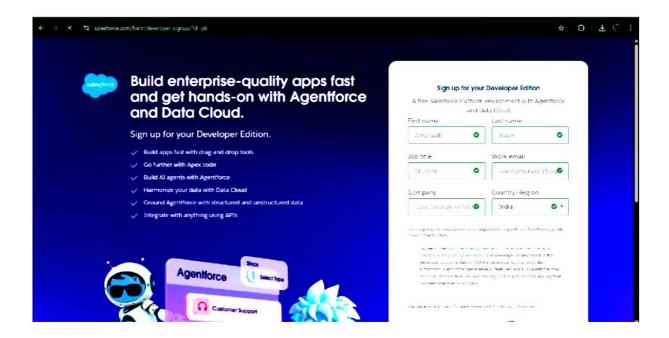
Purpose

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.

DEVELOPMENTPHASE

Creating Developer Account:

ByusingthisURL-https://www.salesforce.com/form/developer-signup/?d=pb

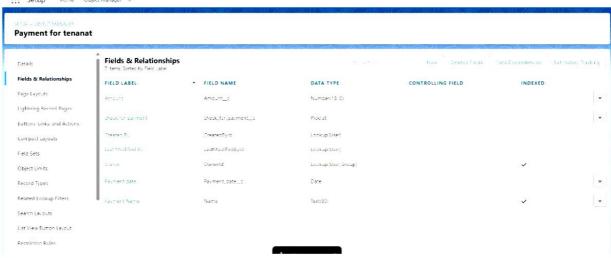


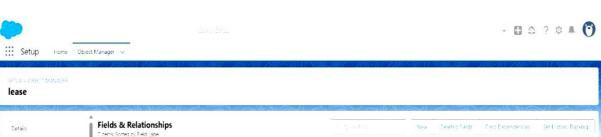
• Created objects: Property, Tenant, Lease, Payment



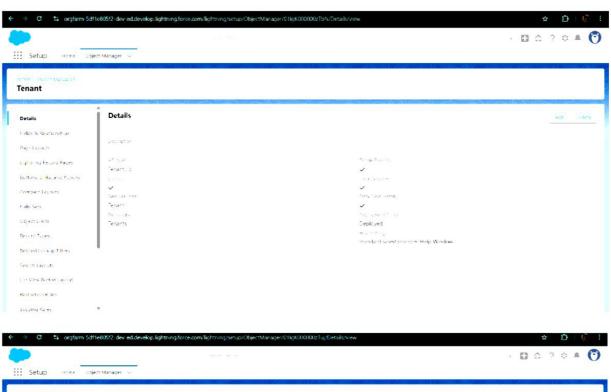








Details	Fields & Relationships Titems Sorted by Field Label			New Deleted fields	Field Dependencies	Set Fistory Trackin
elds & Relationships	FIELD LABEL	* FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
ge Layouts	Created By	Created8ytd	Lookup(User)			
ohtning Record Pages	End date	End date is	Date			
ittons, Links, and Actions	Last Modified By	LastModified3;ild	Lockup User			
mpact Layouts						
eld Sets	lease Name	Name	[ect[80]]		~	
bject Limits	Dianer	Ownerid	Lockup(User,Group)		~	
cord Types	property	property_c	Lockup (property)		~	
lated Lookup Filters	start date	start_date_c	Date			
arch Layouts						
t View Button Layout						

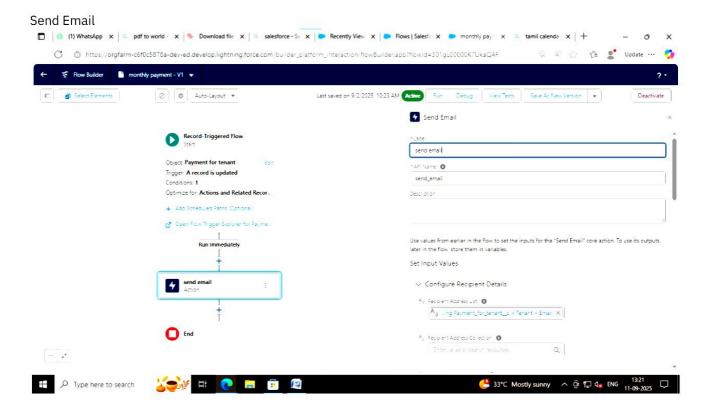






• Configured fields and relationships





• Scheduled monthly reminder emails using Apex class

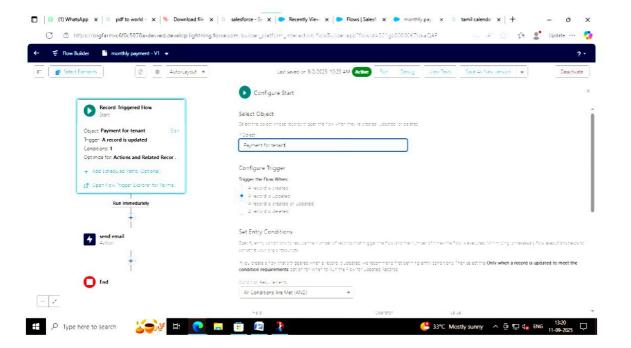
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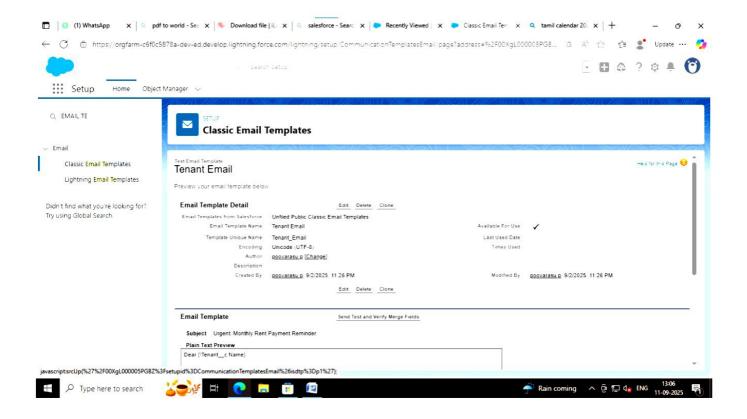
Testhandler apex

```
Developer Console - Profile 1 - Microsoft Edge
 \textcircled{a} \quad \text{https://orgfarm-c6f0c5878a-dev-ed.develop.my.salesforce.com/\_ui/common/apex/debug/ApexCSIPage} 
File • Edit • Debug • Test • Workspace • Help • <
 testHandler.apxc × test.apxt ×
 Code Coverage: None ▼ API Version 64 ▼
                                                                                                                                                           Go To
   → public class testHandler {
           public static void preventInsert(List<Tenant_c> newlist) {
                Set<Id> existingPropertyIds = new Set<Id>();
                for (Tenant_c existingTenant : [SELECT Id, Property_c FROM Tenant_c WHERE Property_c != null]) {
                     existingPropertyIds.add(existingTenant.Property_c);
                }
  14 •
                 for (Tenant__c newTenant : newlist) {
 Logs Tests Checkpoints Query Editor View State Progress Proble
33°C Mostly sunny
```

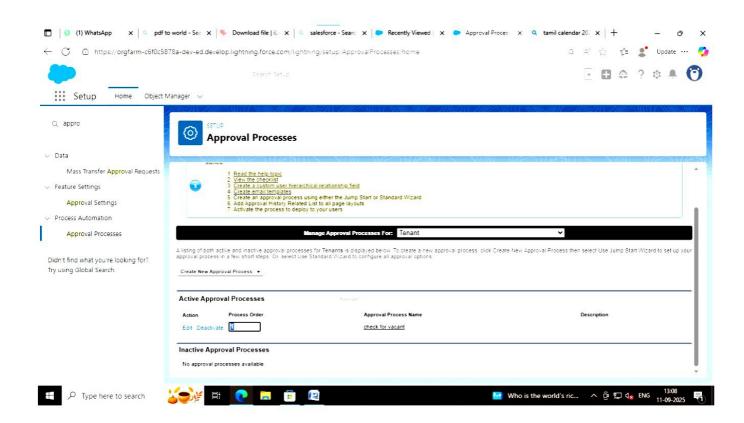
Flows

Configure Start

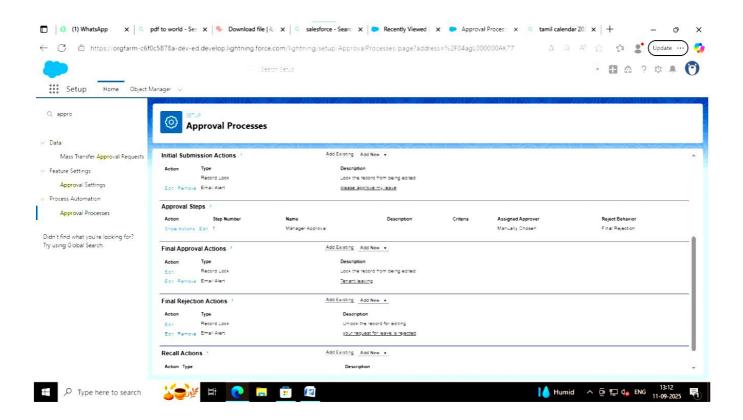




Approval processor



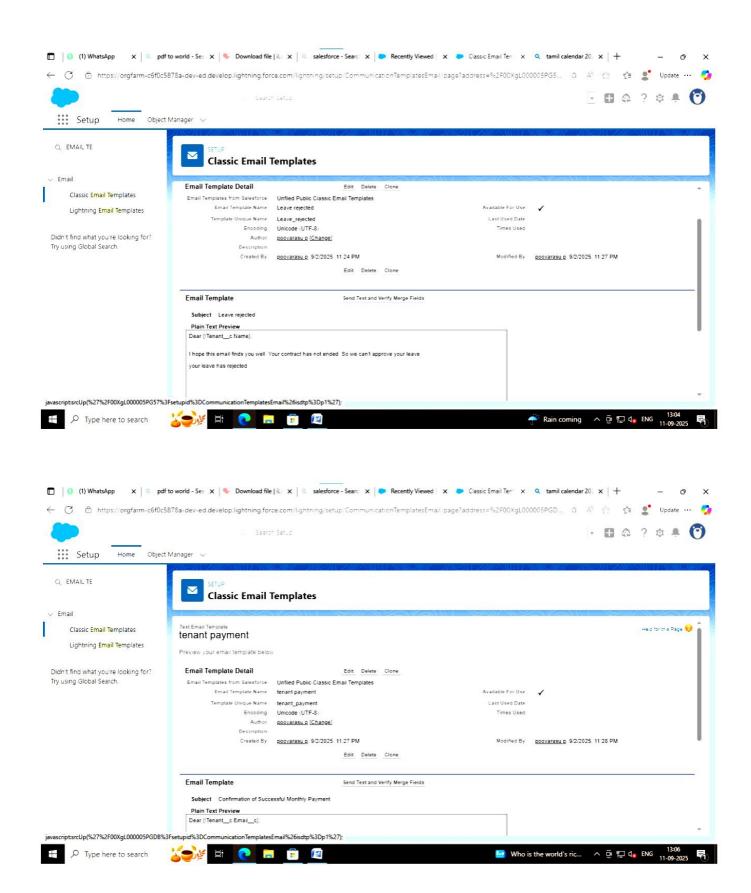
Initial submission action-final approval action-final rejection action-approval set



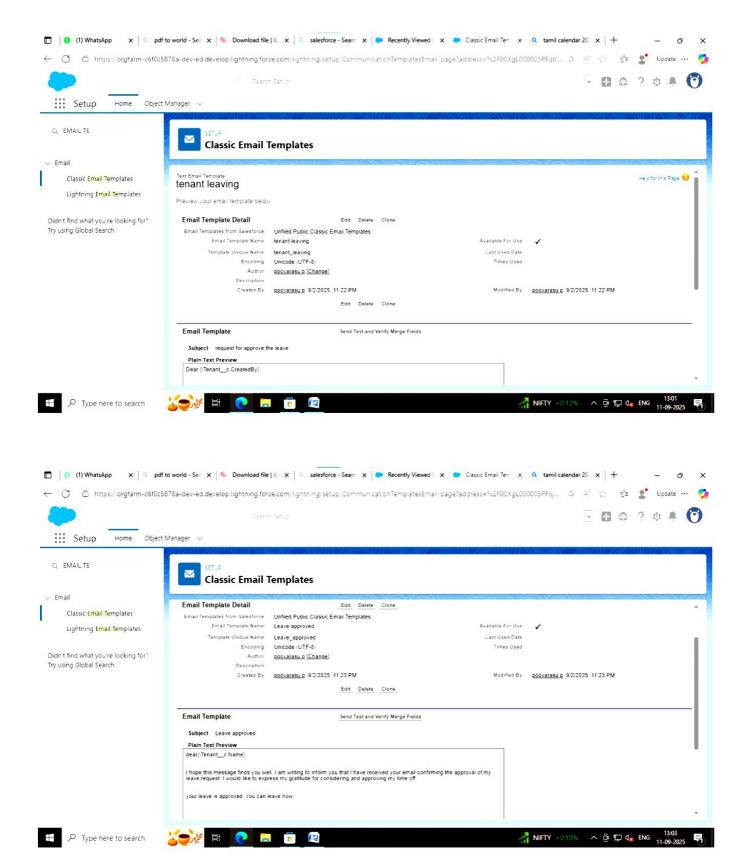
Apex trigger

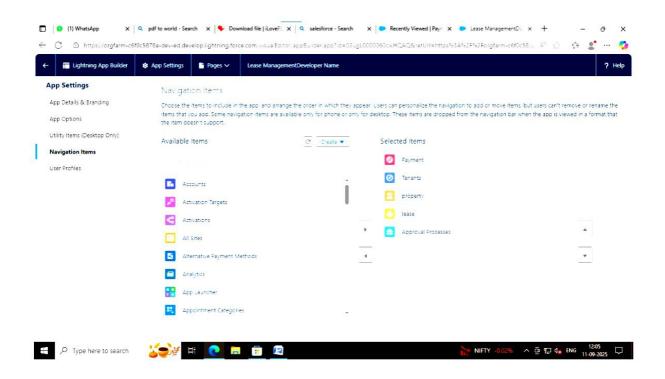
Test apex

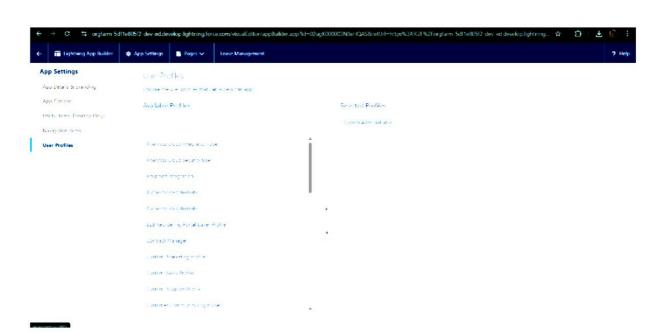




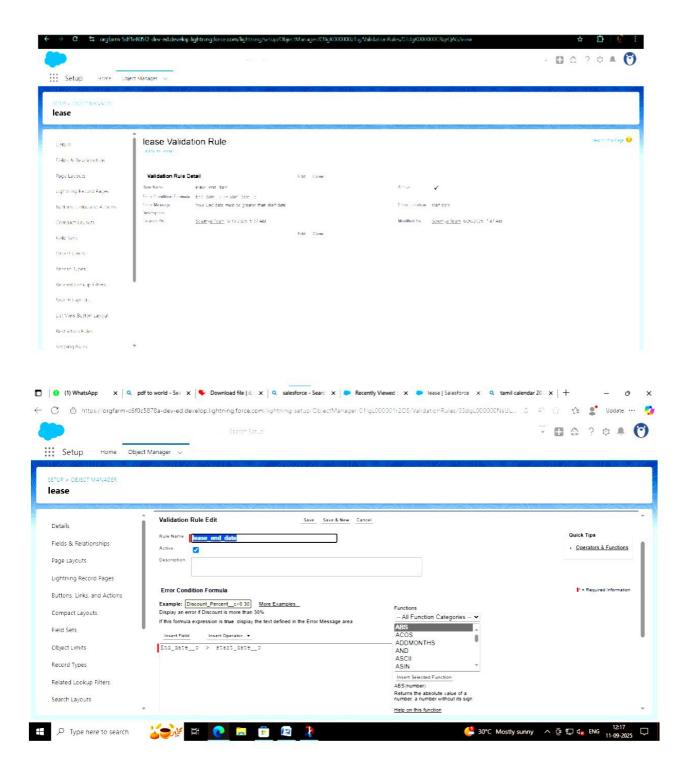
Email Templates





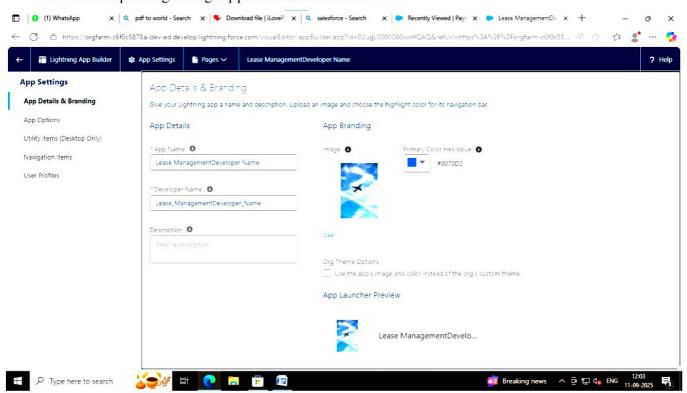


To create a validation rule to a Lease Object





• Developed Lightning App with relevant tabs



```
Messaging.SingleEmailMessage email = new

Messaging.SingleEmailMessage(); email.setToAddresses(new

String[]{recipientEmail}); email.setSubject(emailSubject);

email.setPlainTextBody(emailContent);

Messaging.sendEmail(newMessaging.SingleEmailMessage[]{email});
}
```

```
}for(TenantcnewTenant:
             newlist) {
                   if (newTenant.Propertyc!= null &&
             existingPropertyIds.contains(newTenant.Propertyc)){newTenant.addError('A
                    tenantcanhaveonlyoneproperty');
                    }
             }
      }
MothlyEmailScheduler.apxc:
globalclassMonthlyEmailSchedulerimplementsSchedulable { global
      void execute(SchedulableContext sc) { Integer currentDay =
      Date.today().day(); if (currentDay == 1) {
      sendMonthlyEmails();
      }public static void
sendMonthlyEmails(){List<Tenantc>
tenants=[SELECTId,EmailcFROM
Tenante]; for (Tenante tenant:
tenants){
```

StringrecipientEmail=tenant.Emailc;

StringemailContent='Itrustthisemailfindsyouwell.Iamwritingtoremindyou that the monthly rentis dueYour timely payment ensures the smooth functioning of our rental arrangement and helps maintain a positive living environment for all.';

StringemailSubject='Reminder:MonthlyRentPaymentDue';

CONCLUSION

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

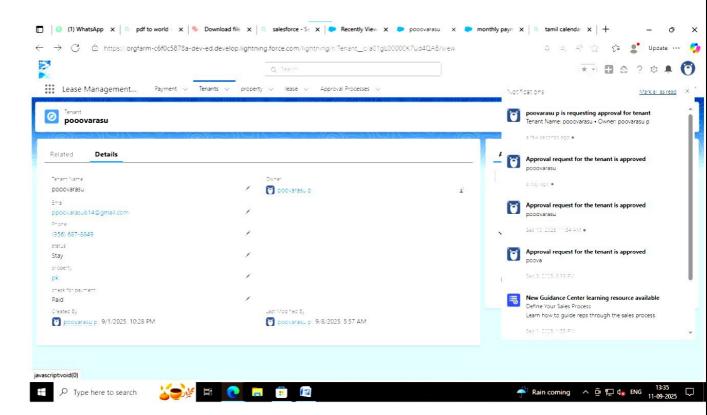
APPENDIX

SourceCode:ProvidedinApexClassesandTriggers

Test.apxt:

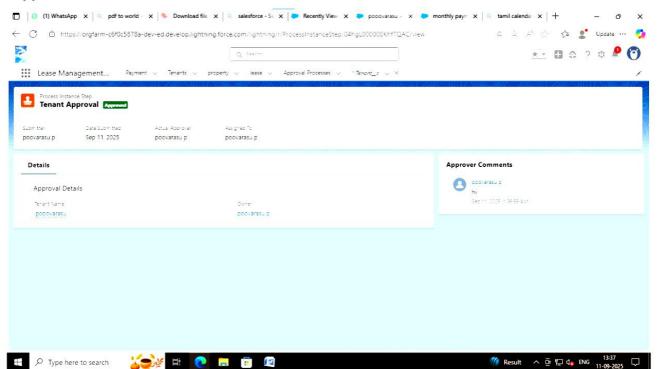
```
triggertestonTenantc(beforeinsert){if (trigger.isInsert &&
trigger.isBefore){ testHandler.preventInsert(trigger.new);
      }}
testHandler.apxc:
public class
testHandler {
public static void
preventInsert(List<
Tenantc>newlist)
           Set<Id>
existingPropertyIds
=newSet<Id>()
              for(TenantcexistingTenant:[SELECTId,PropertycFROMTenantc WHERE
      Propertyc!= null]) {
             existingPropertyIds.add(existingTenant.Propertyc;
```

Approval process notifications



Process Instance Step

Tenant Approval

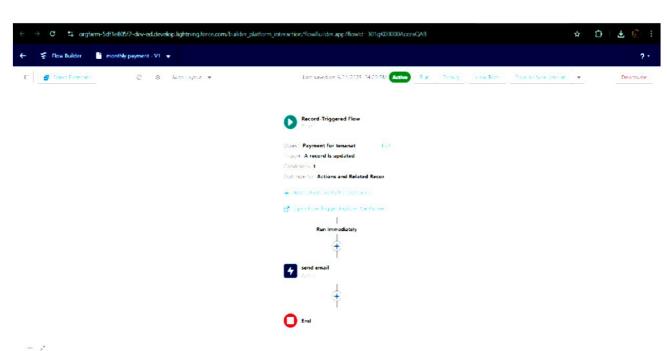


RESULTS

Output Screenshots

• TabsforProperty,Tenant,Lease,Payment





ADVANTAGES&DISADVANTAGES

AdvantagesofLease Management

Description Advant age

Regular lease payments make budgeting easier and reduce unexpected costs. 1. Cost Predictability

Leasing avoids the need for large capital outlay, especially useful for startups or growing 2. Reduced Upfront

businesses. Costs

Short- or long-term lease options allow businesses to scale up or down based on need. 3. Flexibility 4. Risk

Maintenance and repair responsibilities may fall to the lessor, reducing liability for the

Mitigation

Leases can be structured to allow regular upgrades to newer equipment or properties. 5. Asset Upgrades

Disadvantages of Lease Management

Disadvantage Description

Over time, leasing can be more expensive than owning the asset outright. 1. Long-Term Cost

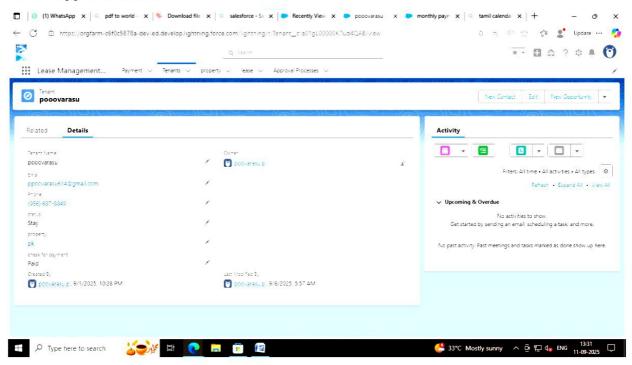
The lessee may have restrictions on property use or modification. 2. Limited Control

Lease terms may change unfavorably at renewal or the lease may not be renewed at all. 3. Renewal Risks

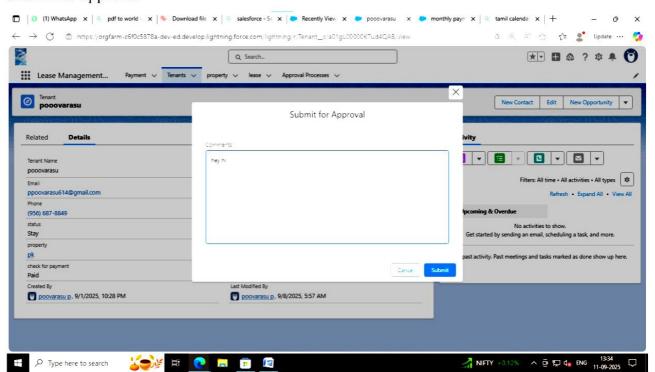
4. Contract Complexity Lease agreements can be legally complex, requiring specialized management and review.

5. Liability for Breach Failure to comply with lease terms can result in penalties or legal consequences.

Tenant approval access



Submit for approval



```
globalclass Monthly Email Scheduler implements Schedulable {
  globalvoid execute(Schedulable Context sc) {
    Integer current Day = Date. today().day();
    if(current Day == 1) {
      send Monthly Emails();
    }
  }
  publicstatic void send Monthly Emails() {
    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
youthatthe monthly rent is due Your timely payment ensures the smooth functioning
ofourrental 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});
```

Testing the approval process

