# LEASE MANAGEMENT

College Name: vidyasagar college of arts and science

College Code: bru30

TEAM ID: **NM2025TMID26850** 

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### 1.INTRODUCTION

# \.\ProjectOverview

The Lease Management System is a Sales force-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.



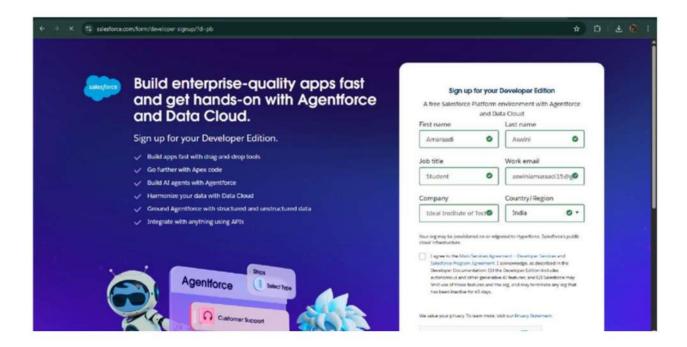
### 1. Y Purpose

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.

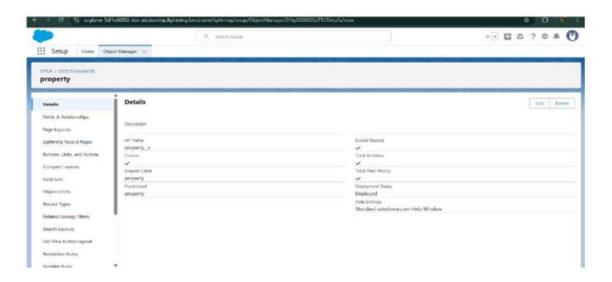
# **DEVELOPMENT PHASE**

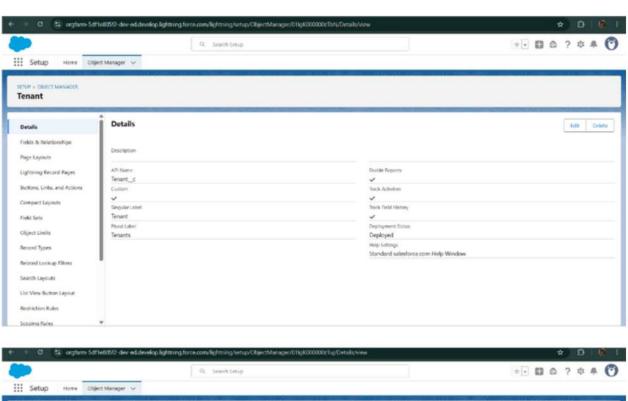
Creating Developer Account:

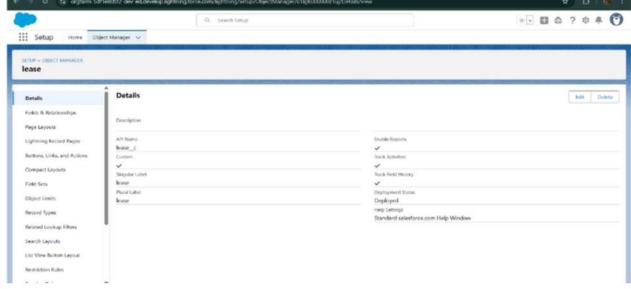
By using this URL – https://www.salesforce.com/form/developer-signup/sd=pb

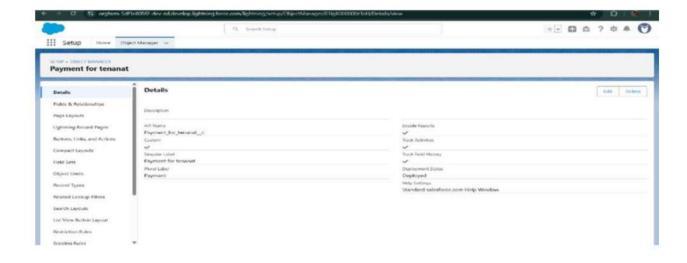


Created objects: Property، Tenant، Lease، Payment

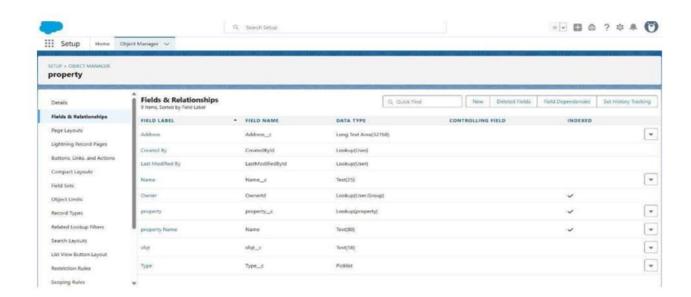


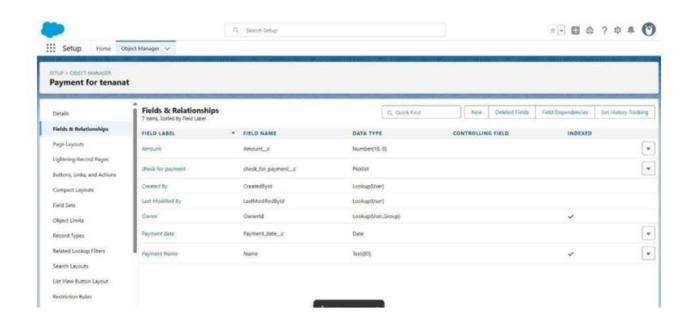


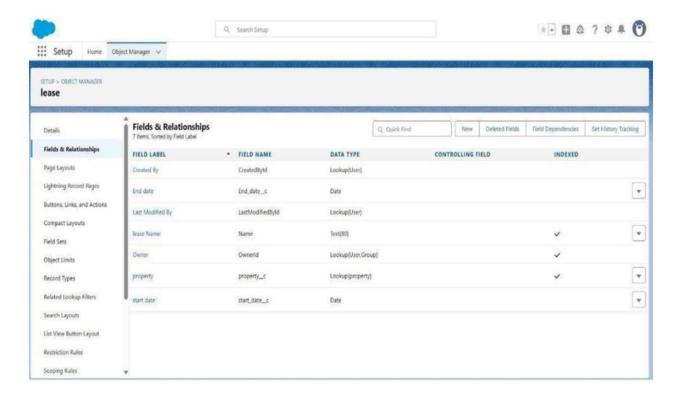


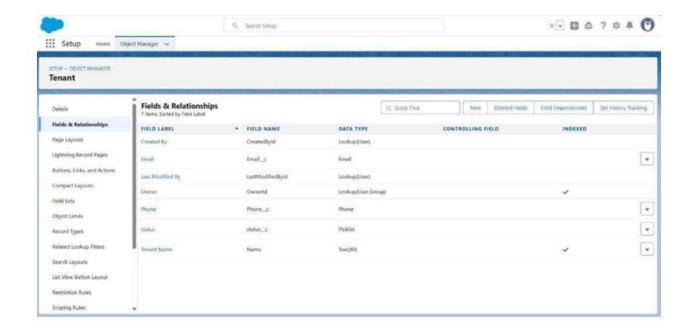


• Configured fields and relationships

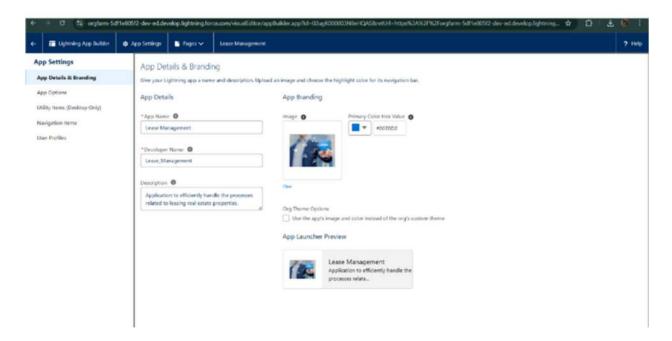


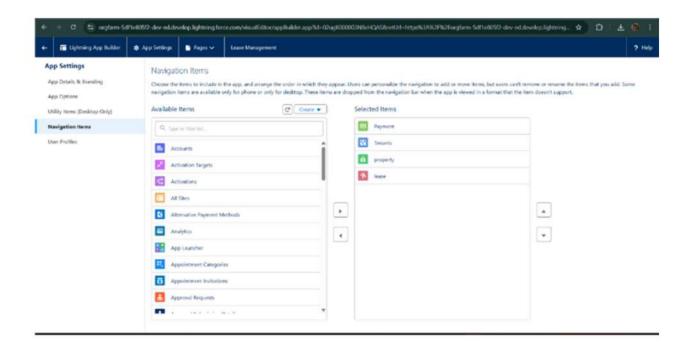


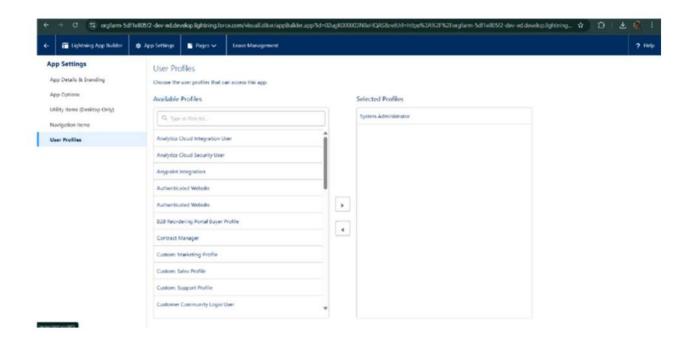


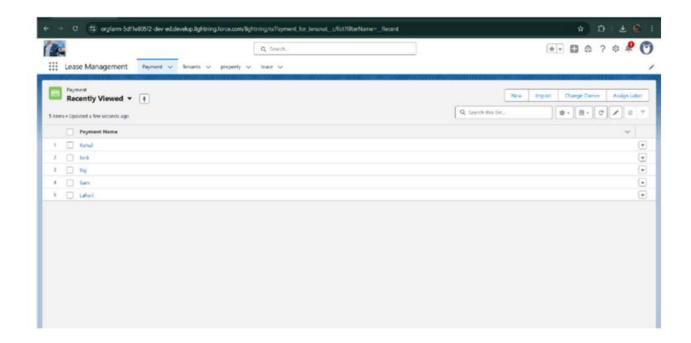


Developed Lightning App with relevant tabs

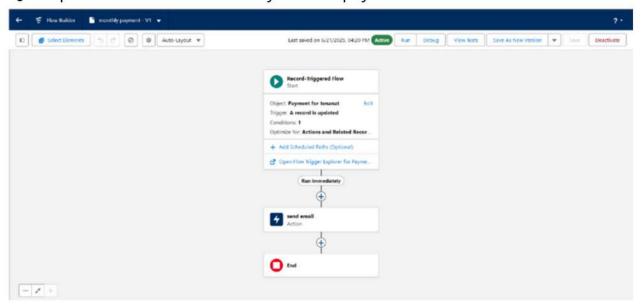




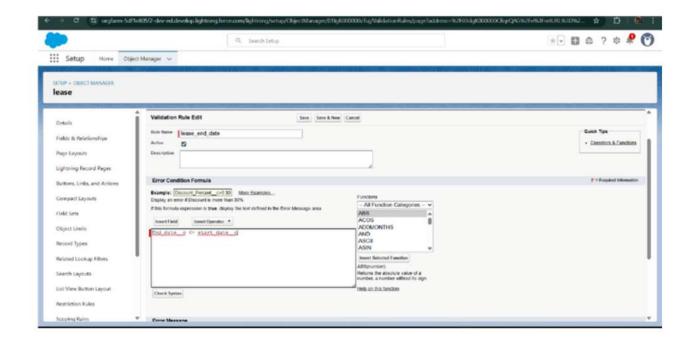


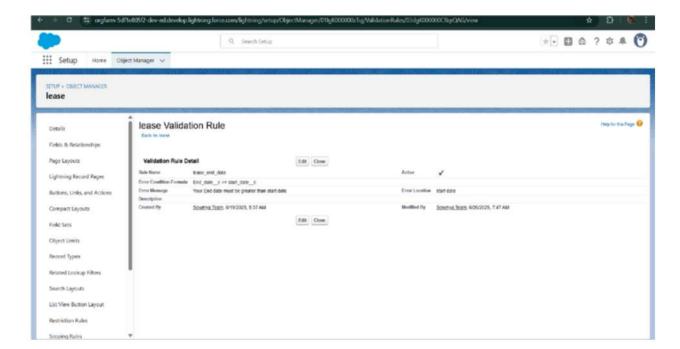


• Implemented Flows for monthly rent and payment success

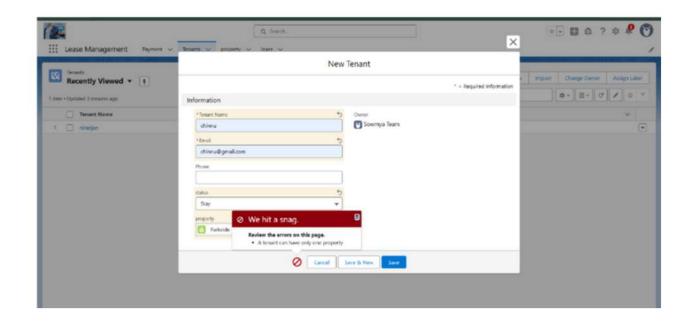


• To create a validation rule to a Lease Object





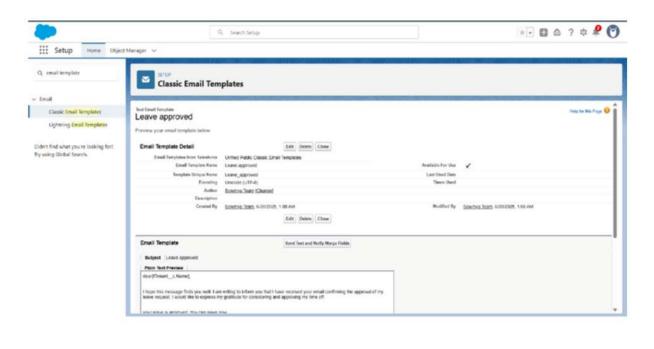
Added Apex trigger to restrict multiple tenants per property

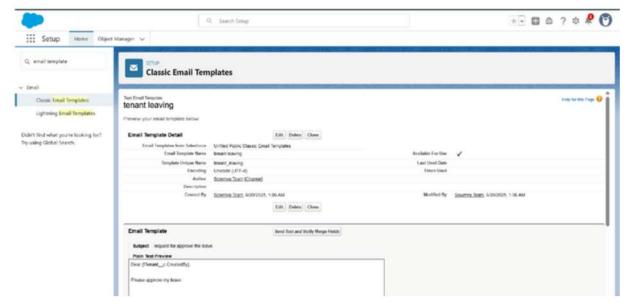


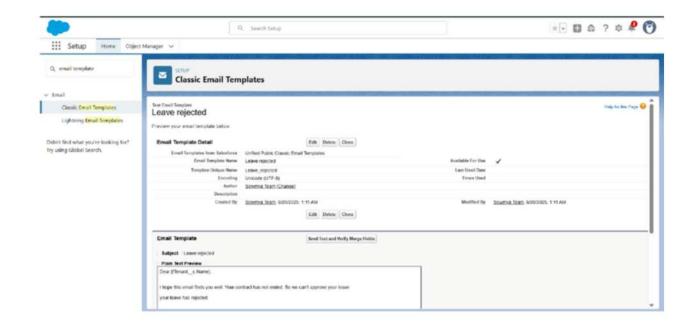
Scheduled monthly reminder emails using Apex class

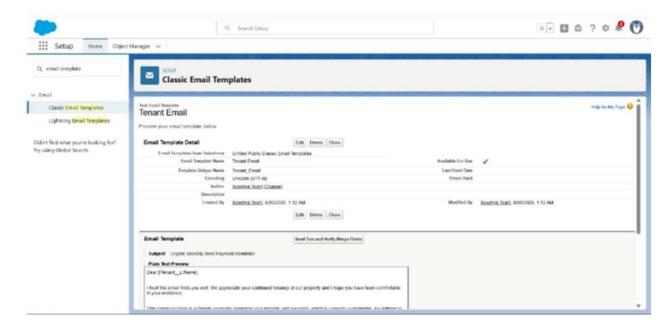
```
| The Design | Design
```

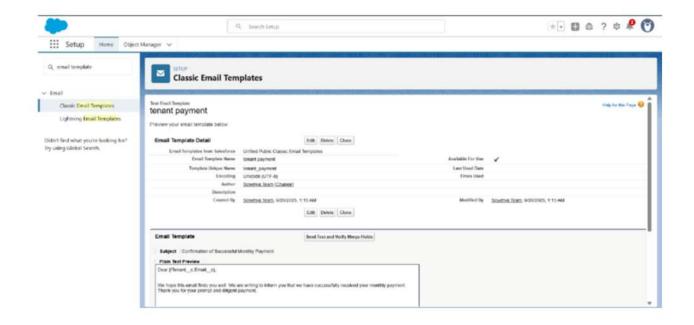
• Built and tested email templates for leave request, approval, rejection, payment, and reminders





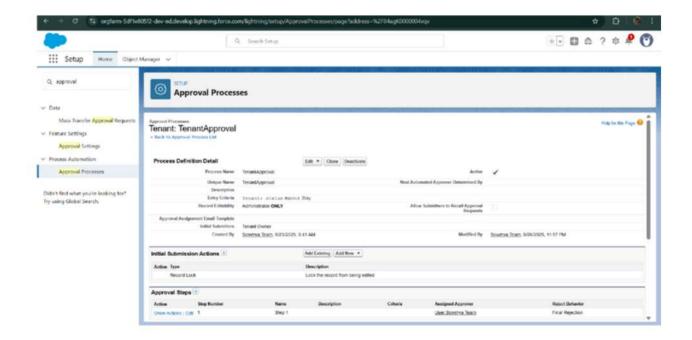




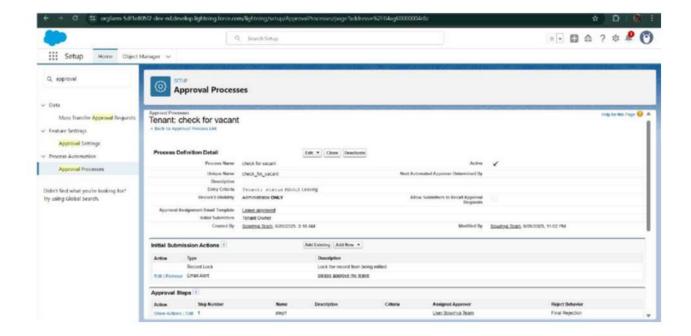


Approval Process creation

For Tenant Leaving:

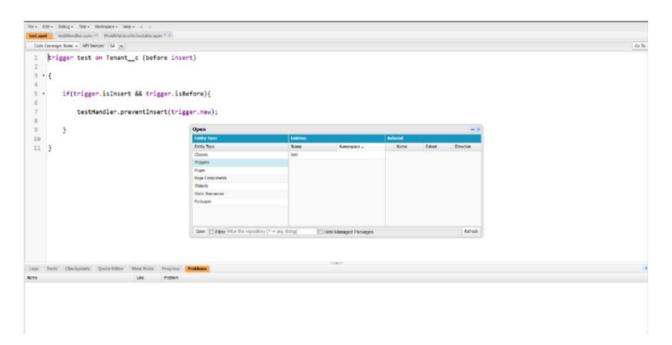


For Check for Vacant:



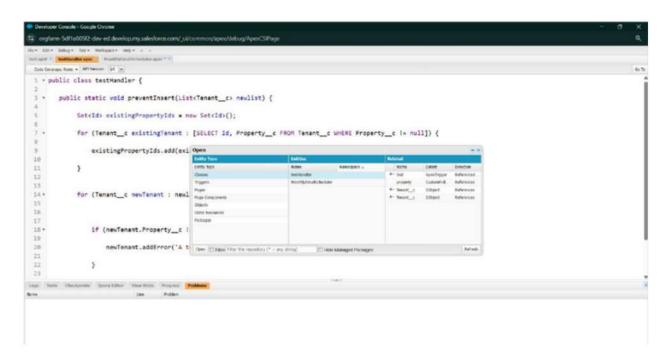
### Apex Trigger

### Create an Apex Trigger



```
Devided Conside Conside Conside Consider Conside
```

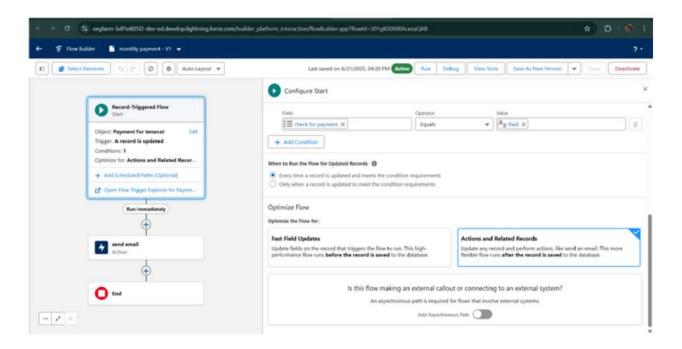
### Create an Apex Handler class

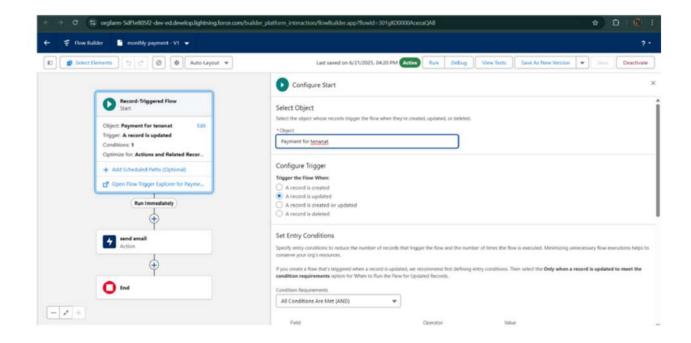


```
Determine Contain - Good Contain

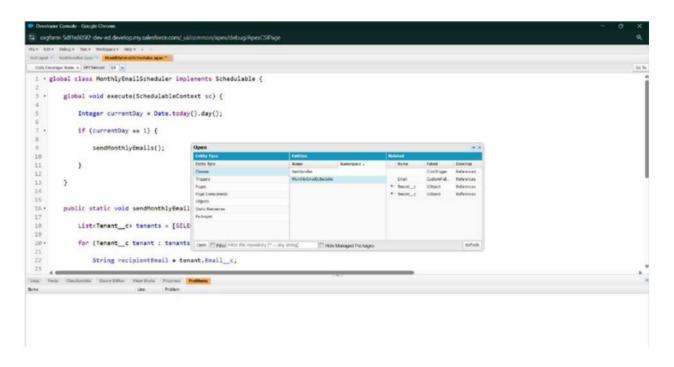
$ contain - Set | State | St
```

### FLOWS





 Schedule class: Create an Apex Class



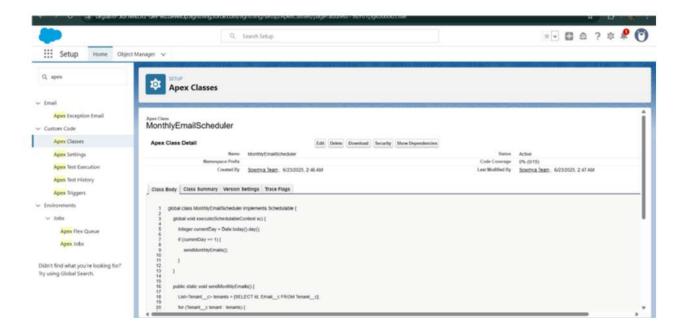
```
Personal Controls - Congle Control

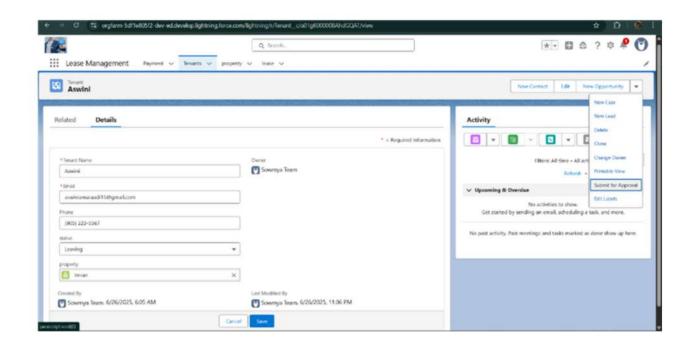
Conglement College Control

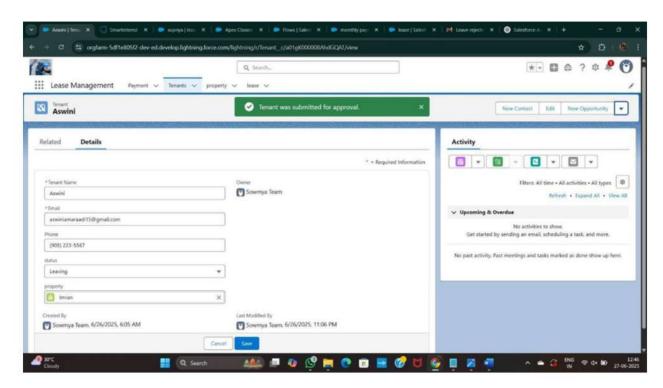
Conglement College Control

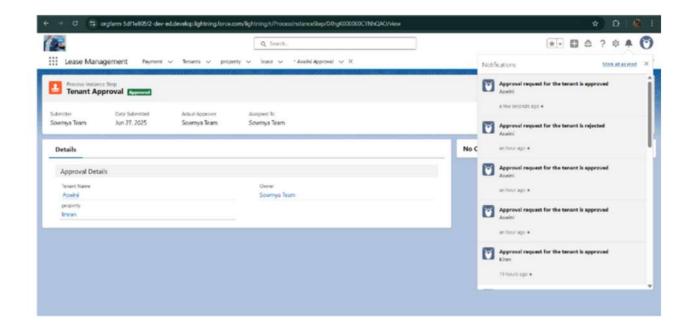
Conglement College College
```

### Schedule Apex class





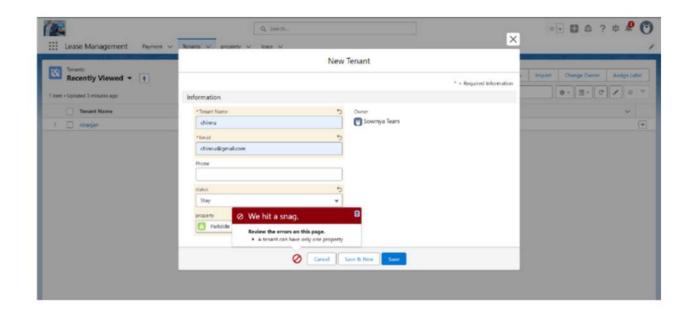




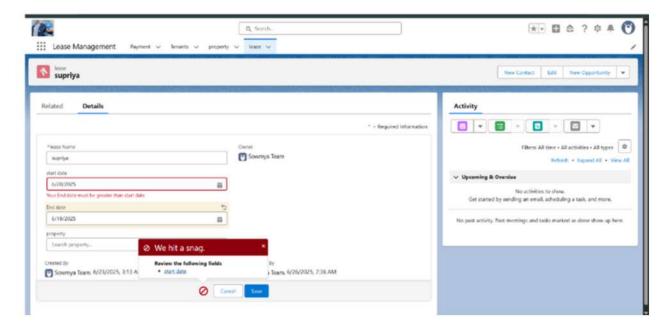
# FUNCTIONAL AND PERFORMANCE TESTING

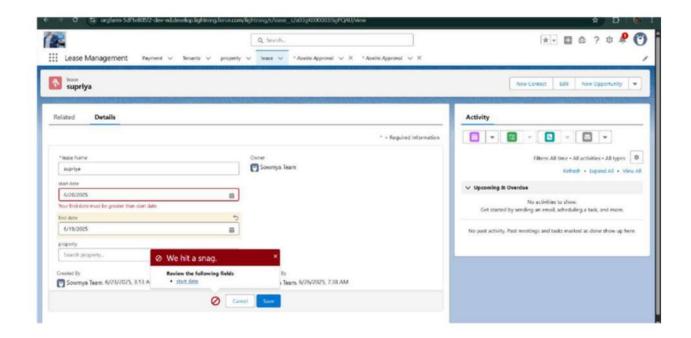
# **Performance Testing**

• Triggervalidation by entering duplicate tenant-property records

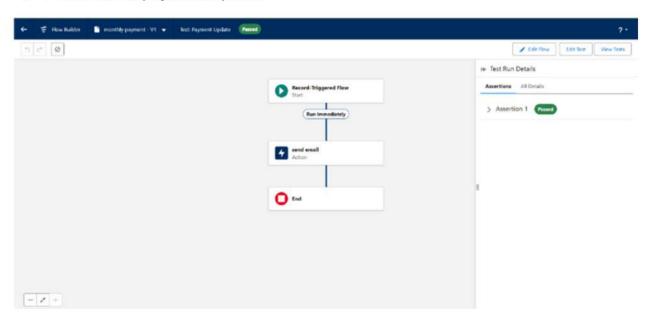


### Validation Rule checking

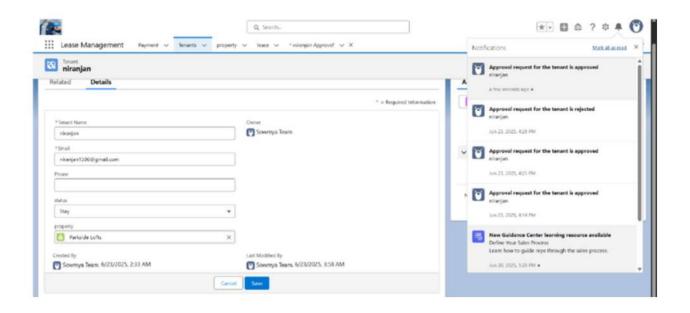


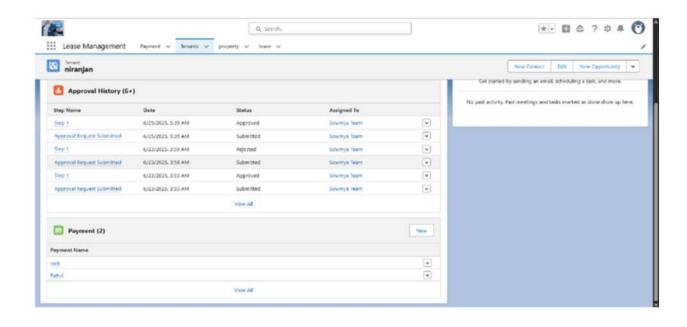


• Test flows on payment update



• Approval process validated through email alerts and status updates

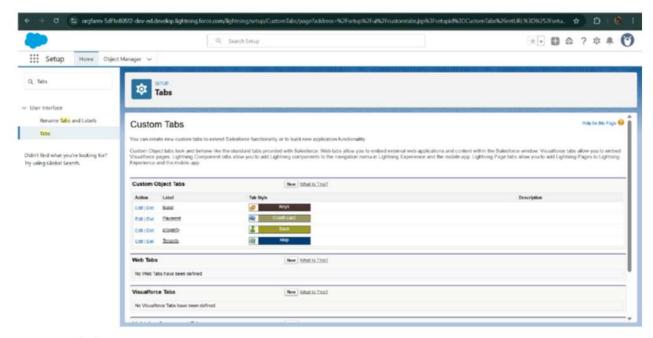




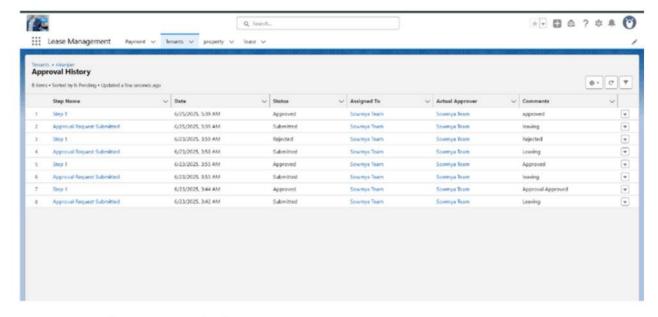
# **RESULTS**

# **Output Screenshots**

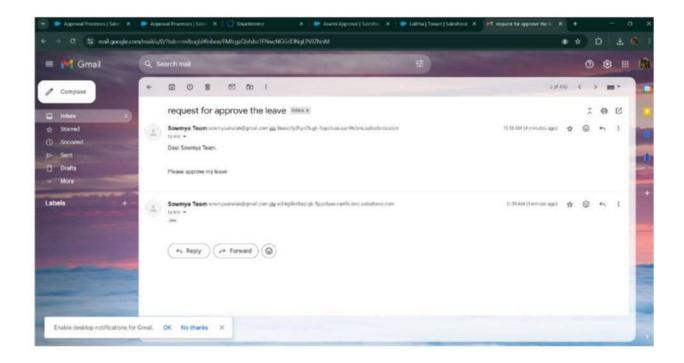
Tabs for Property, Tenant, Lease, Payment



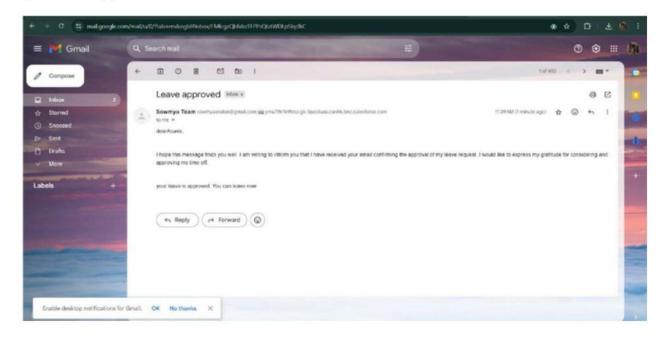
Email alerts



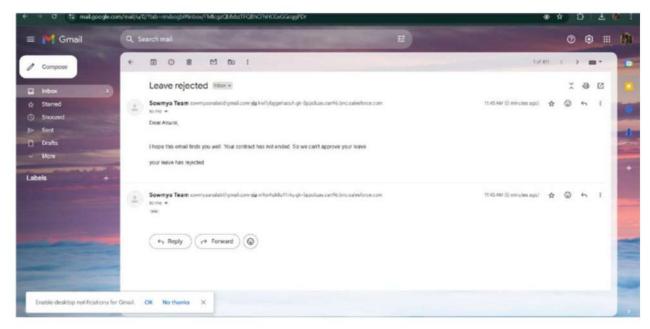
Request for approve the leave



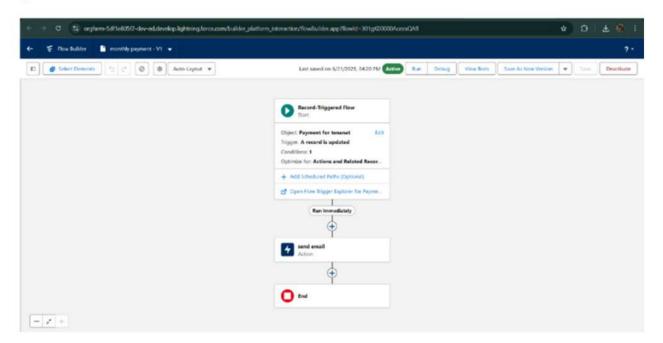
### Leave approved



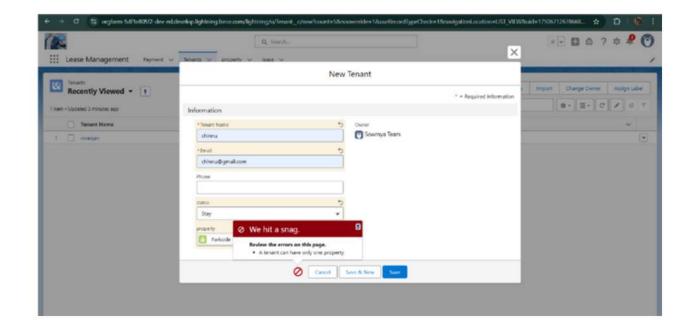
Leave rejected



### Flow runs



Trigger error messages



Approval process notifications



# **ADVANTAGES & DISADVANTAGES**

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## CONCLUSION

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

### **APPENDIX**

• Source Code Provided in Apex Classes and Triggers

```
Test.apxt:
trigger teston Tenant___c (before insert) € if
(trigger.isInsert && trigger.isBefore) &
testHandler.preventInsert(trigger.new) {
testHandler.apxc:
public class
testHandler 4
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 (ﷺ) ﴿
             existingPropertyIds.add(existingTenant.Property___c:
```

```
> for (Tenant___c newTenant :
                                             newlist) 4
                                                                    if (newTenant. Property___c != null &&
                                             existingPropertyIds.contains(newTenant.Property___c)) \( \int \) newTenant.addError('A
                                                                    tenant can have only one property'):
 MothlyEmailScheduler.apxc:
global class MonthlyEmailScheduler implements Schedulable 4
                       global void execute(SchedulableContext sc) & Integer
                      currentDay = Date.today().day(): if (currentDay == 1) \( \)
                      sendMonthlyEmails():
                       public static void
sendMonthlyEmails() \( \) List>Tenant___c<
tenants = SELECT Id ε Email___c FROM
Tenant___c for (Tenant___c tenant :
tenants) €
                                                String recipientEmail = tenant. Email ____c:
                      String\ email Content = '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\ timely\ payment\ ensures\ the\ payment\ ensures\ ensur
                      rental arrangement and helps maintain a positive living environment for all.'
```

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

Messaging.SingleEmailMessageemail = new

Messaging.SingleEmailMessage() { email.setToAddresses(new

String \*\*(recipientEmail\*) { email.setSubject(emailSubject) { email.setPlainTextBody(emailContent) { } }

Messaging.sendEmail(new Messaging.SingleEmailMessage

>

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