LEASE MANAGEMENT

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College Code: bru4p

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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.



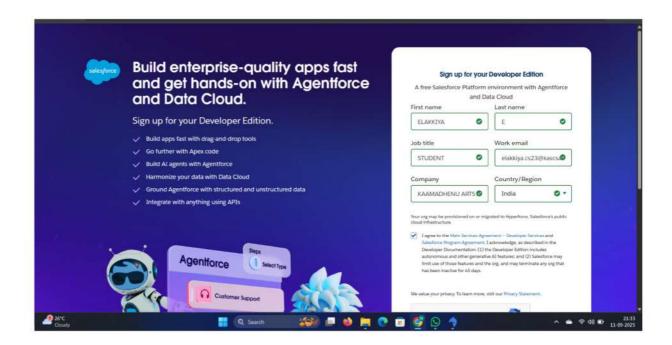
1.2 Purpose

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

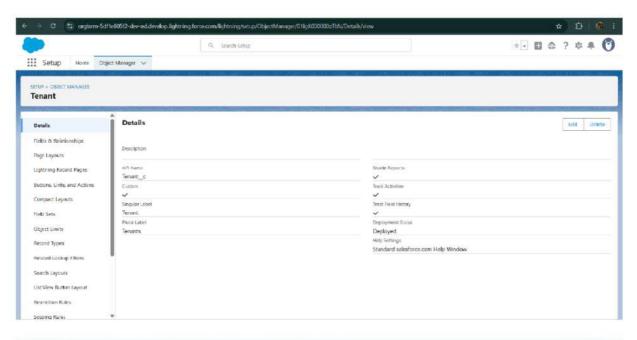
Creating Developer Account:

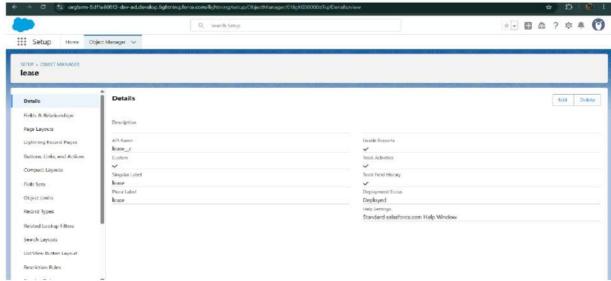
By using this URL - https://www.salesforce.com/form/developer-signup/?d=pb

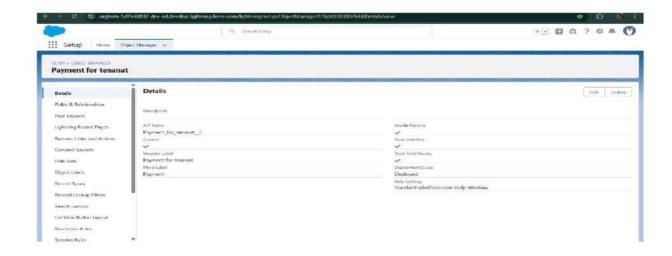


· Created objects: Property, Tenant, Lease, Payment

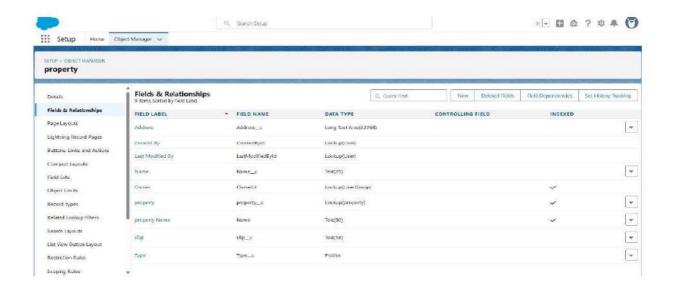


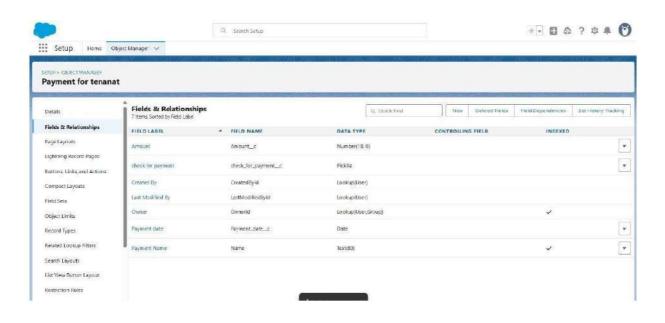


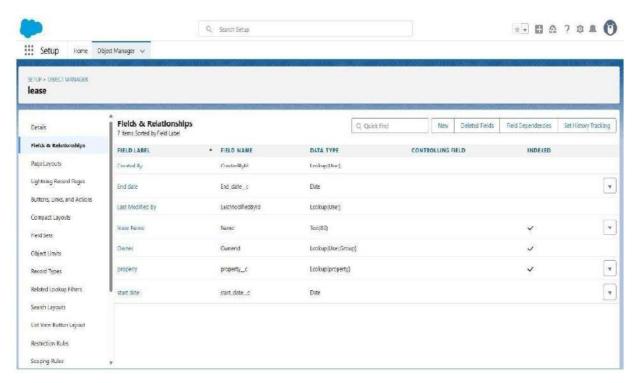


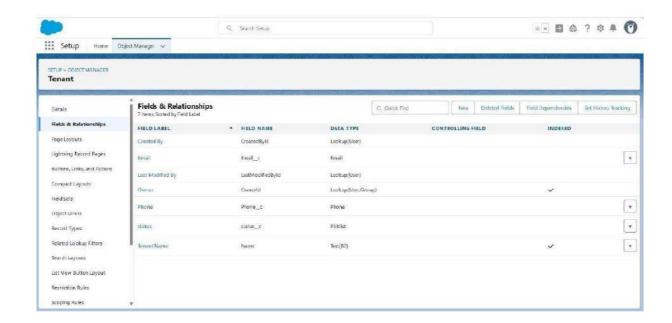


· Configured fields and relationships

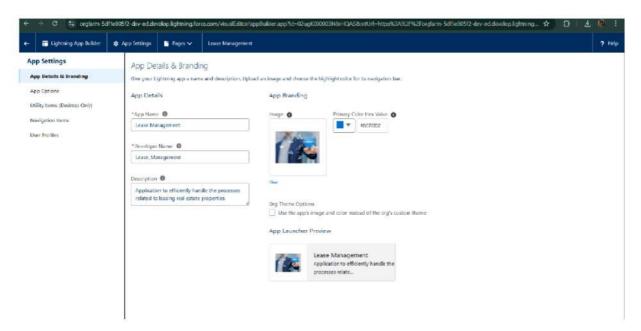


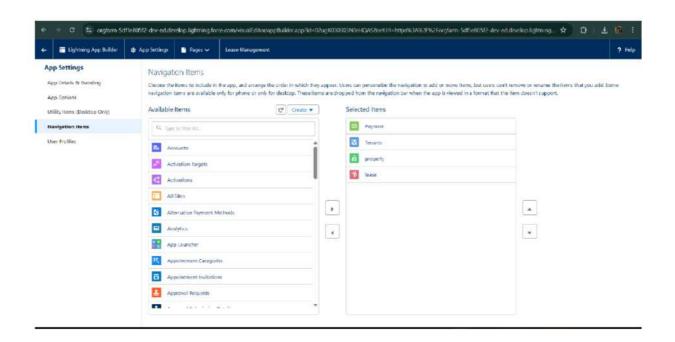


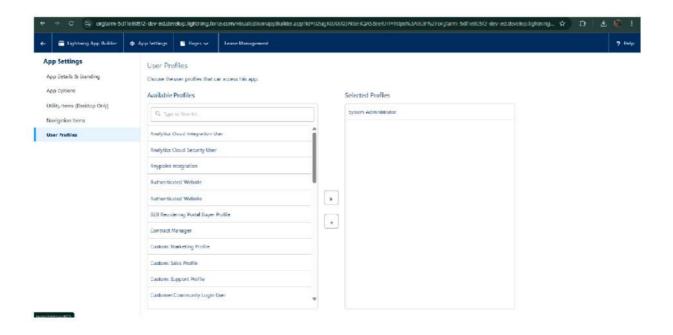


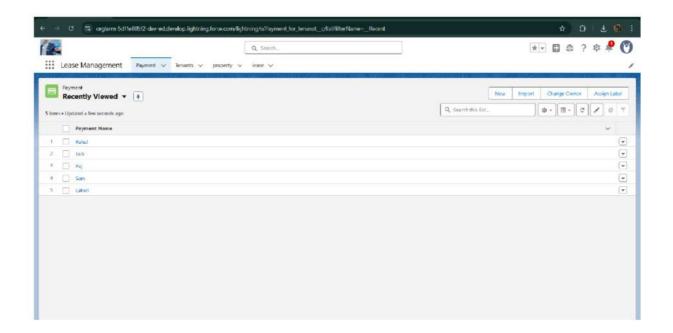


• Developed Lightning App with relevant tabs

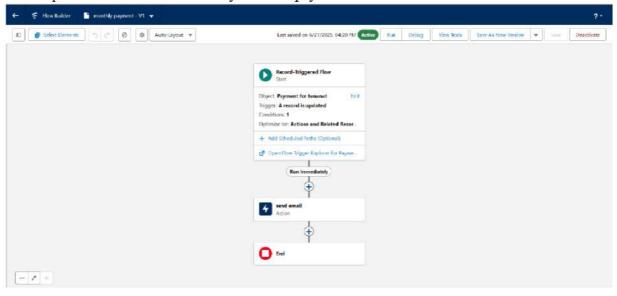




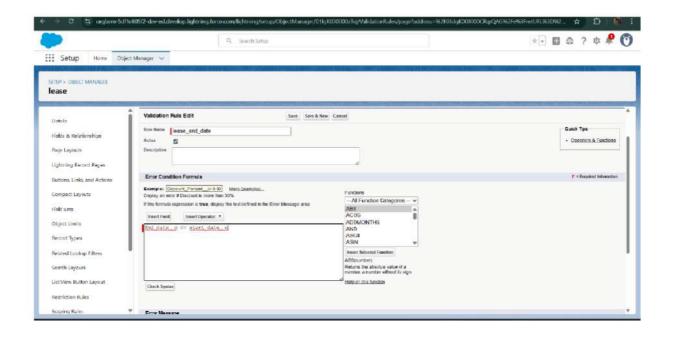


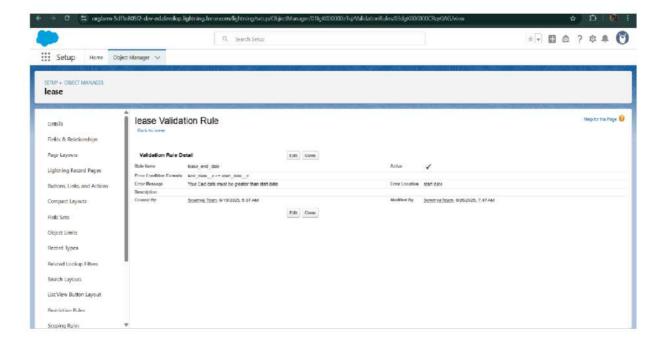


• Implemented Flows for monthly rent and payment success

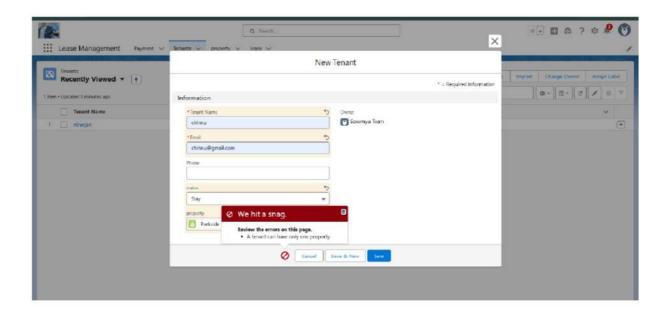


• To create a validation rule to a Lease Object





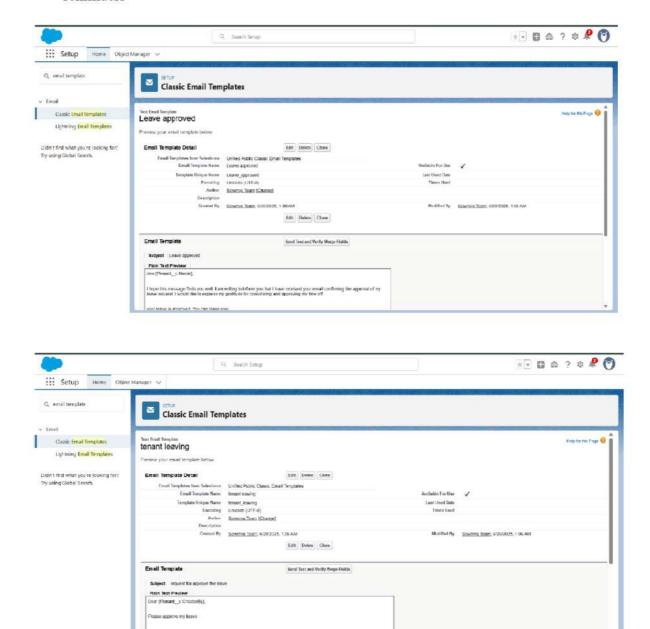
Added Apex trigger to restrict multiple tenants per property

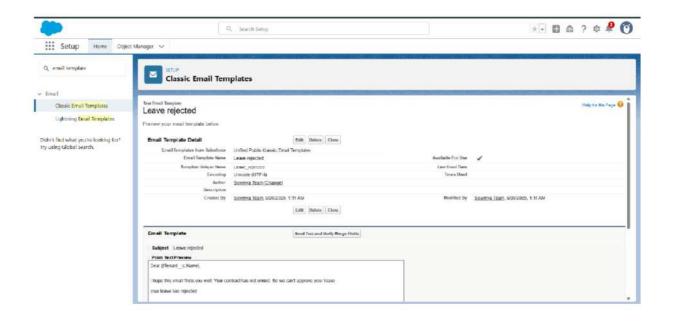


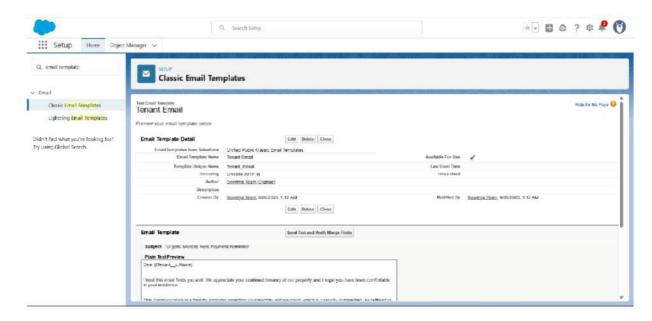
Scheduled monthly reminder emails using Apex class

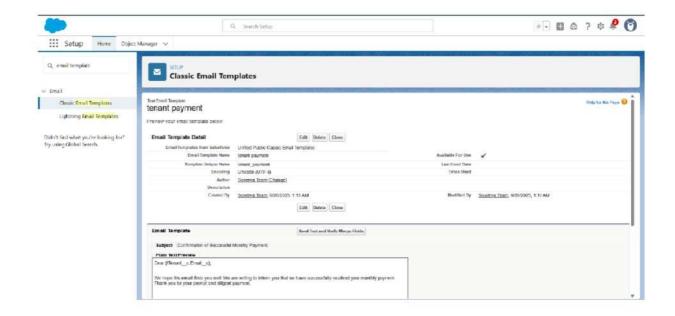
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 Built and tested email templates for leave request, approval, rejection, payment, and reminders



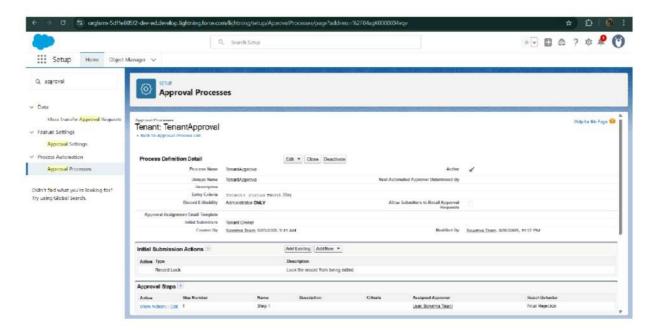




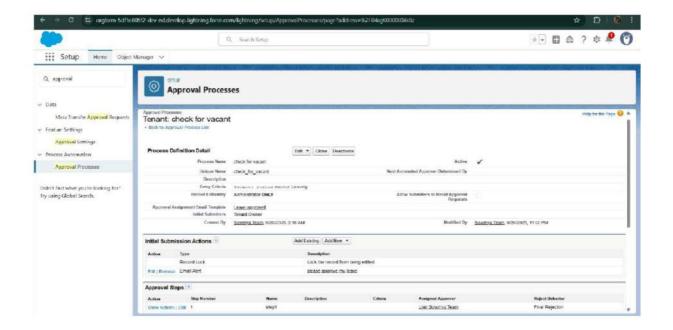


Approval Process creation

For Tenant Leaving:

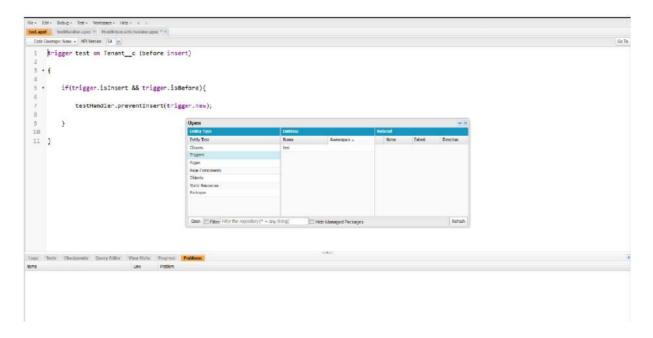


For Check for Vacant:



Apex Trigger

Create an Apex Trigger



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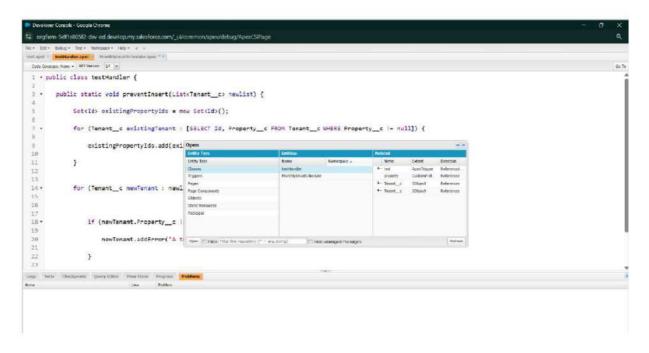
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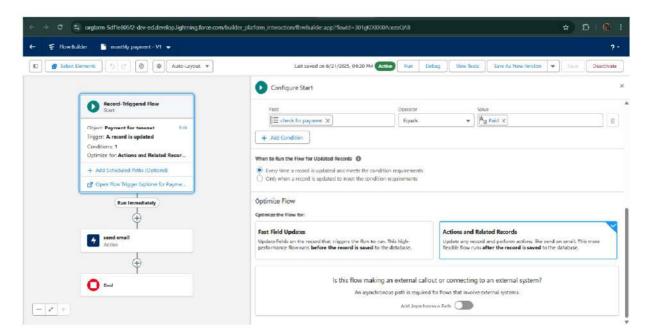
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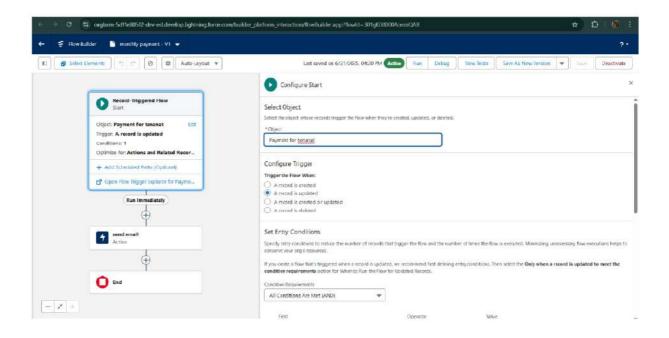
Create an Apex Handler class



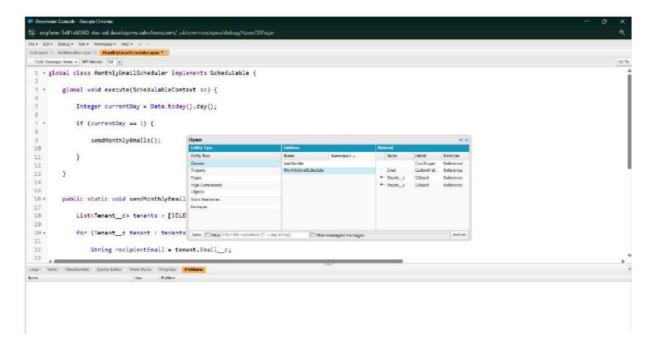
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FLOWS



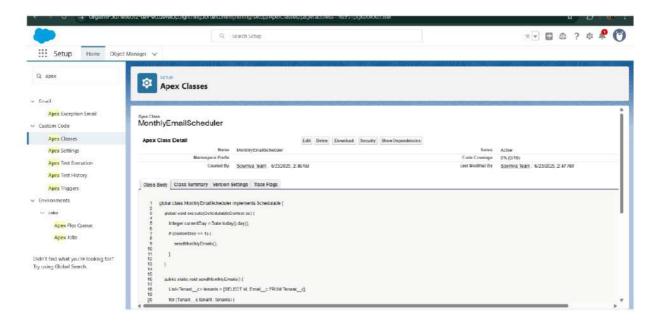


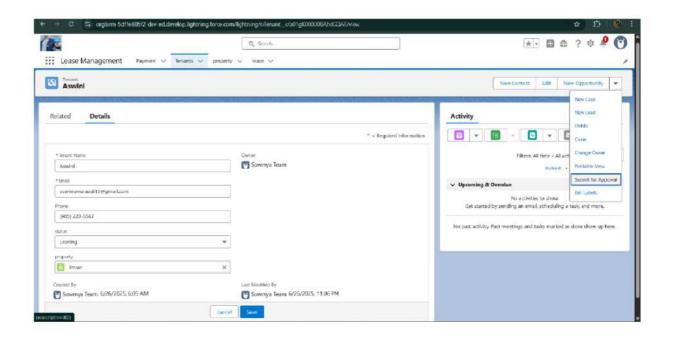
Schedule class:
 Create an Apex Class

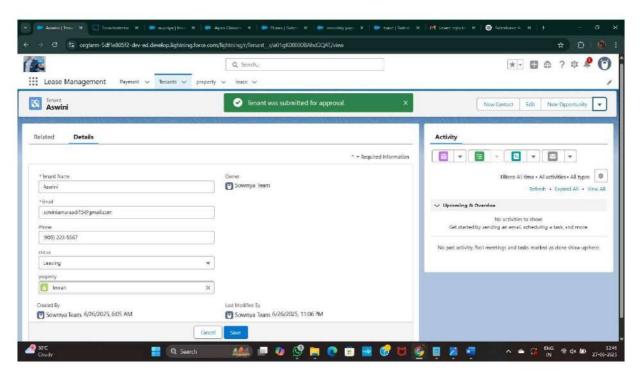


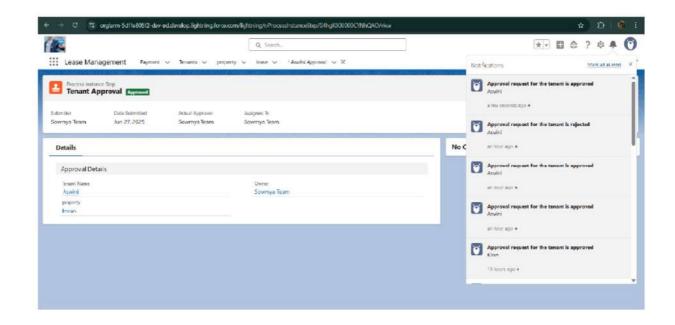
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Schedule Apex class





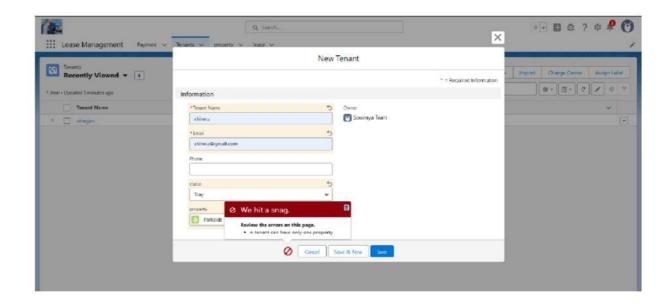




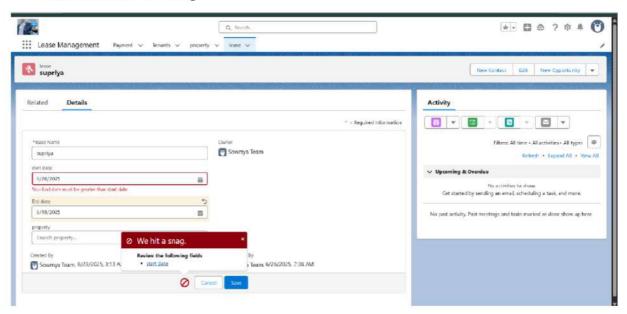
FUNCTIONAL AND PERFORMANCE TESTING

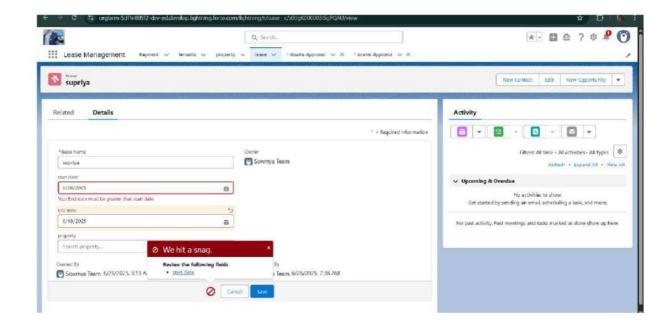
Performance Testing

• Trigger validation by entering duplicate tenant-property records

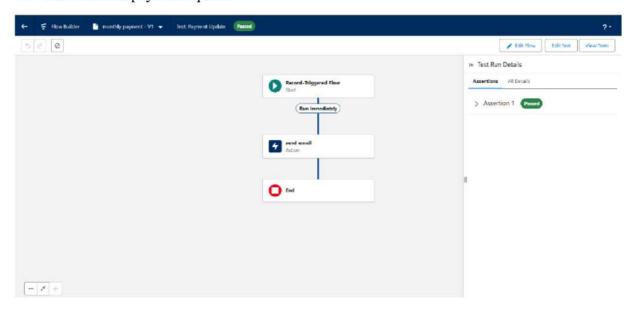


Validation Rule checking

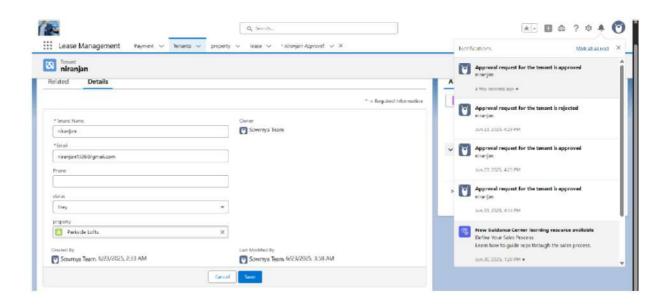


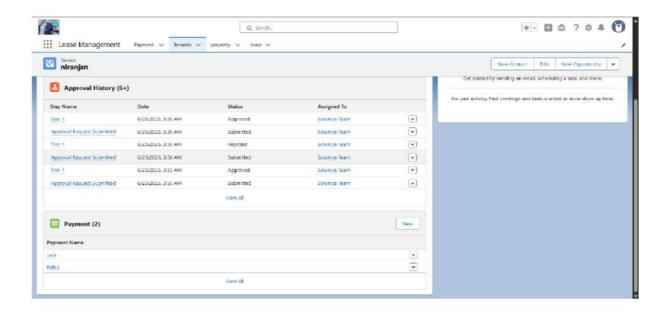


Test flows on payment update



• Approval process validated through email alerts and status updates

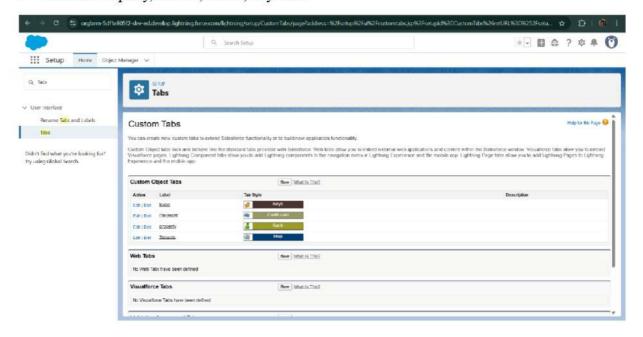




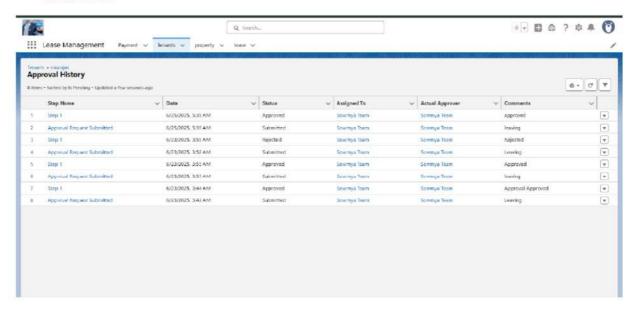
RESULTS

Output Screenshots

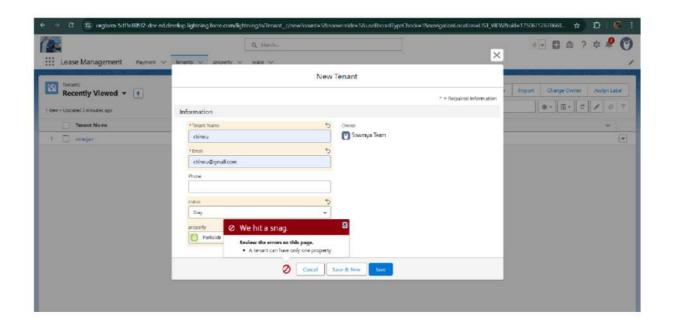
Tabs for Property, Tenant, Lease, Payment



Email alerts



Request for approve the leave



• Approval process notifications



ADVANTAGES & DISADVANTAGES

3

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 existing Tenant: [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
```

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

rental arrangement and helps maintain a positive living environment for all.';

```
Messaging.SingleEmailMessage email = new

Messaging.SingleEmailMessage(); email.setToAddresses(new

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

email.setPlainTextBody(emailContent);

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

}
```