LEASE MANAGEMENT

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College Code: bru4j

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1.INTRODUCTION

1.1ProjectOverview

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.



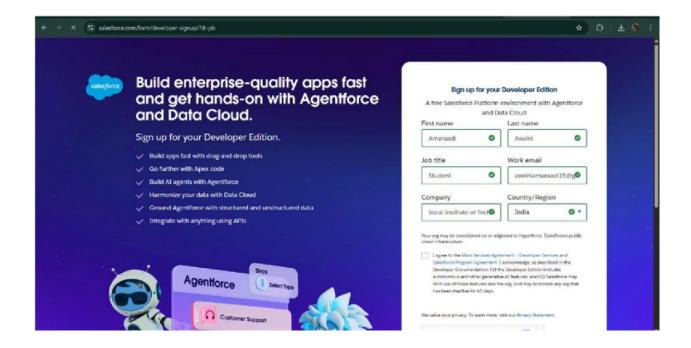
1.2 Purpose

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.

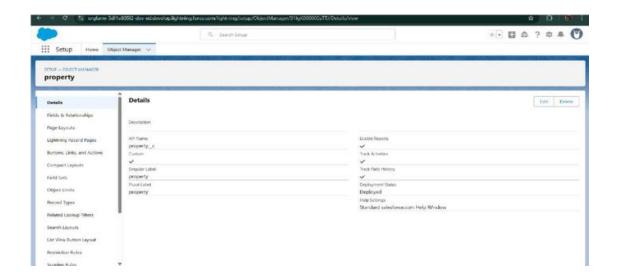
DEVELOPMENT PHASE

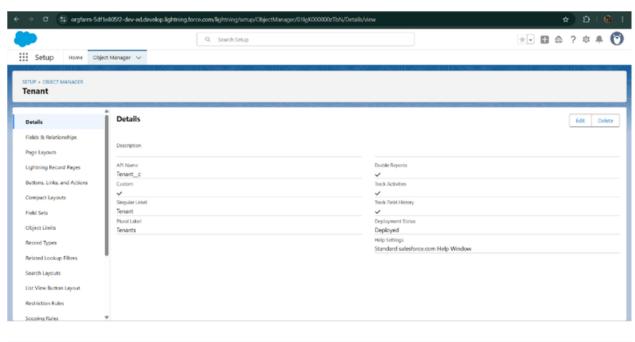
Creating Developer Account:

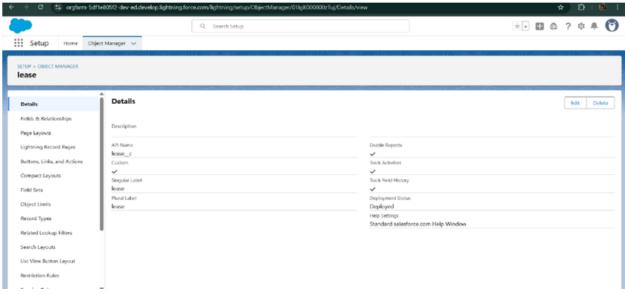
By using this URL - https://www.salesforce.com/form/developer-signup/?d=pb

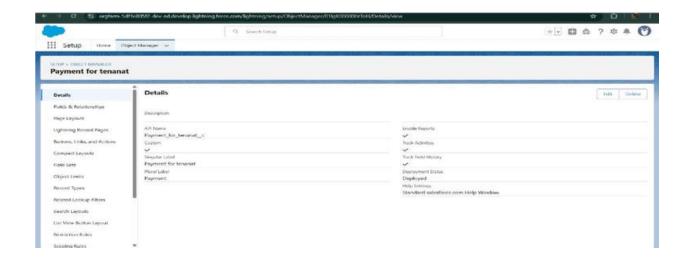


Created objects: Property, Tenant, Lease, Payment

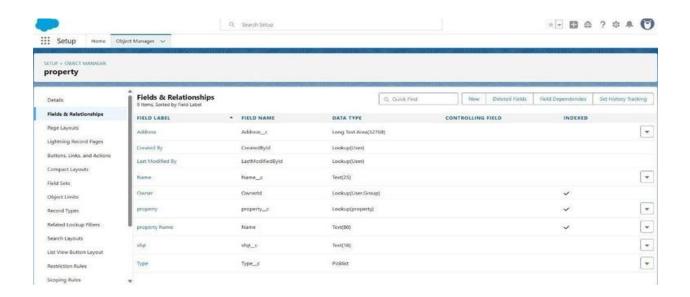


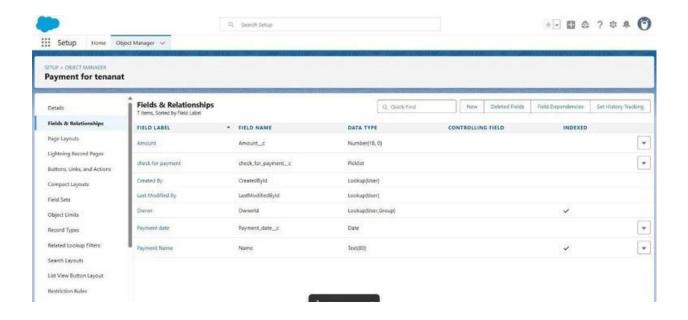


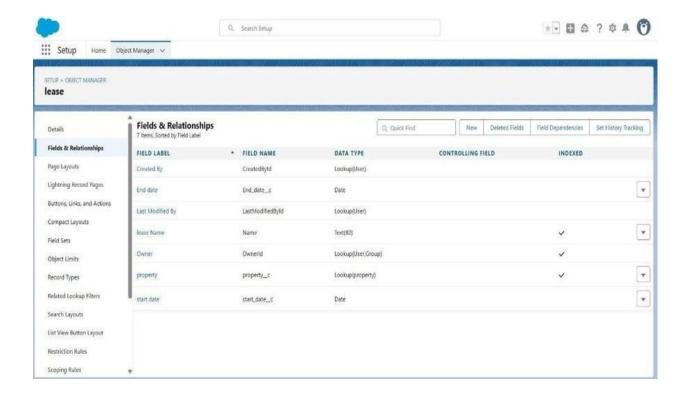


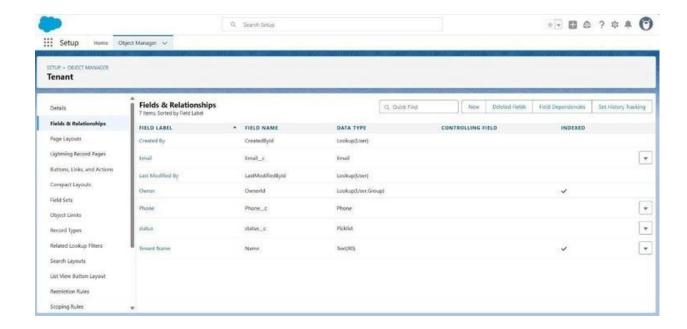


• Configured fields and relationships

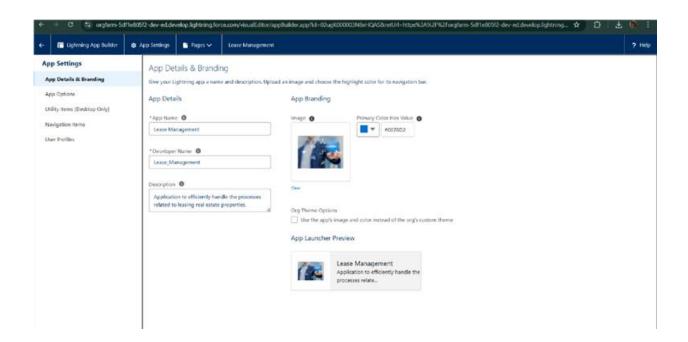


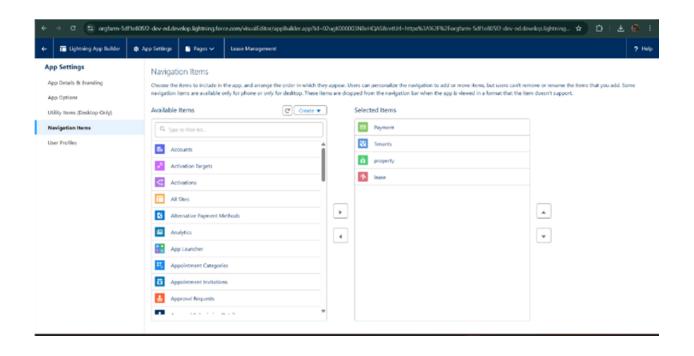


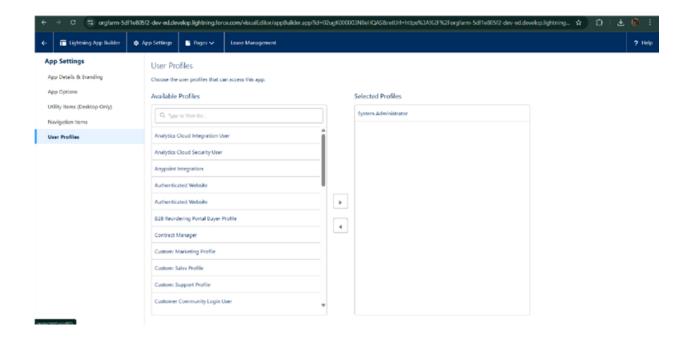


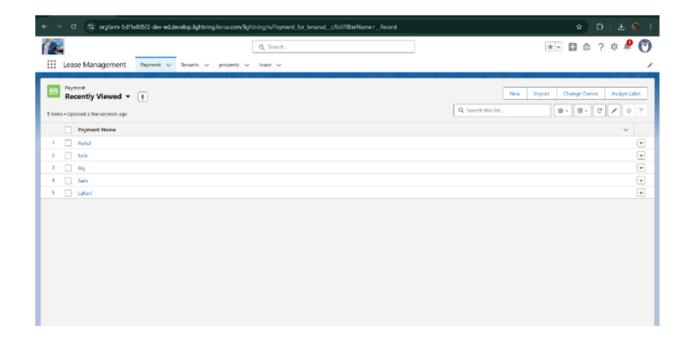


• Developed Lightning App with relevant tabs

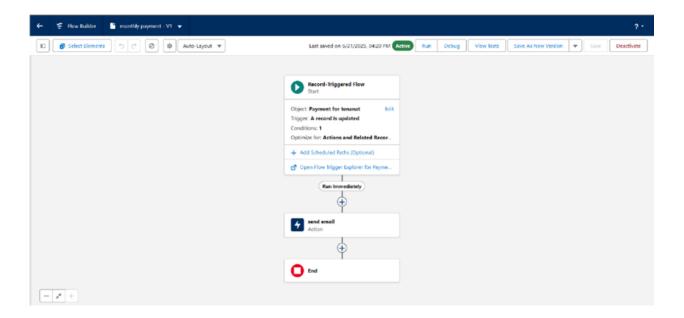




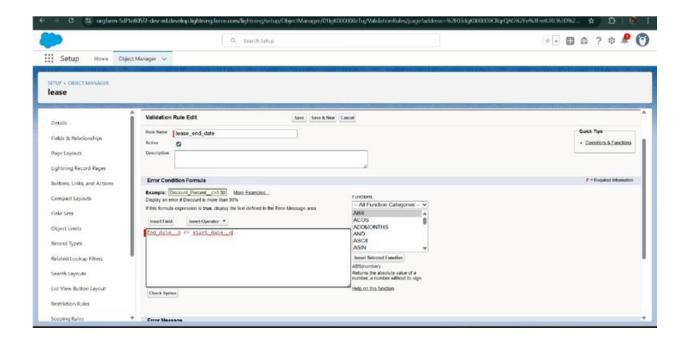


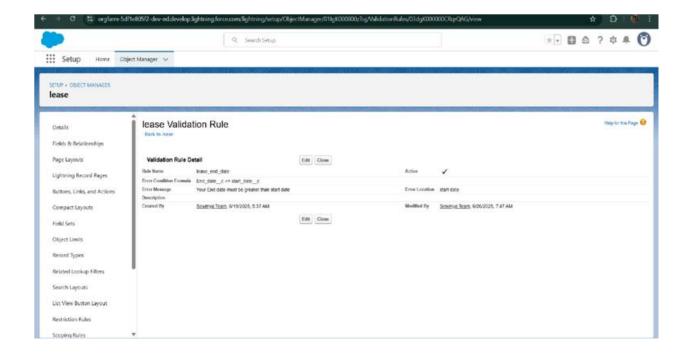


Implemented Flows for monthly rent and payment success

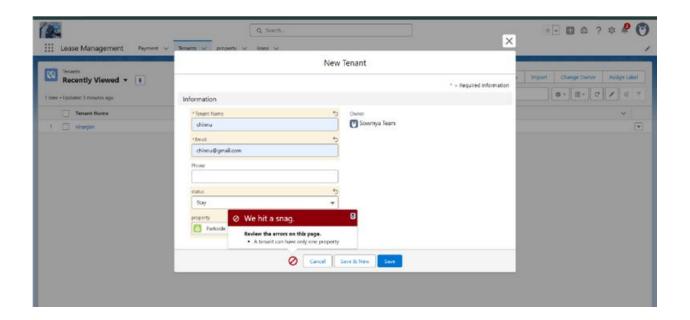


• To create a validation rule to a Lease Object





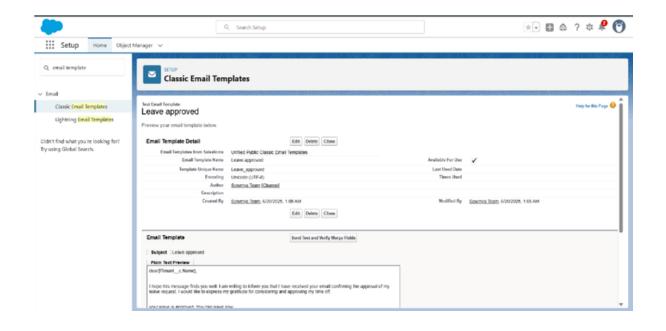
Added Apex trigger to restrict multiple tenants per property

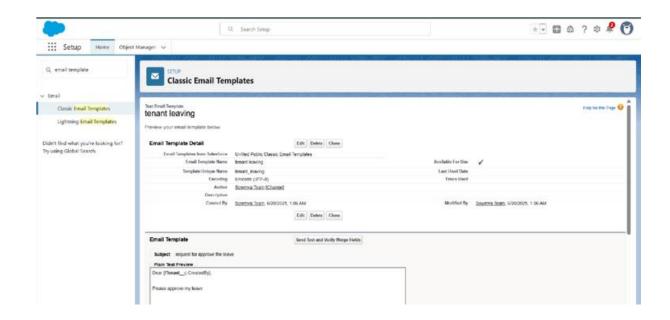


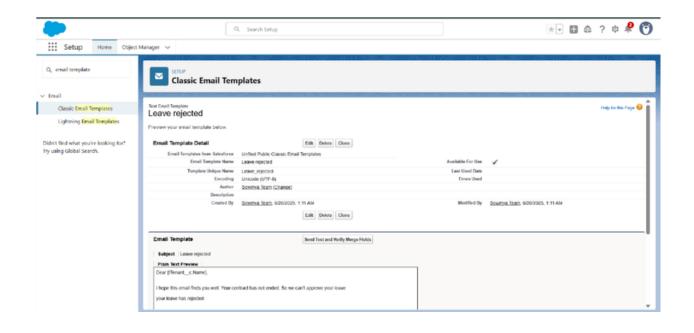
Scheduled monthly reminder emails using Apex class

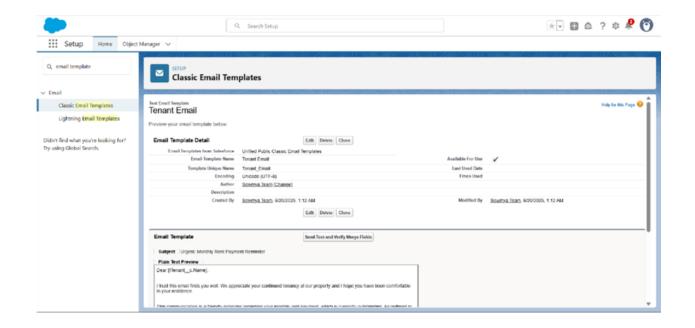
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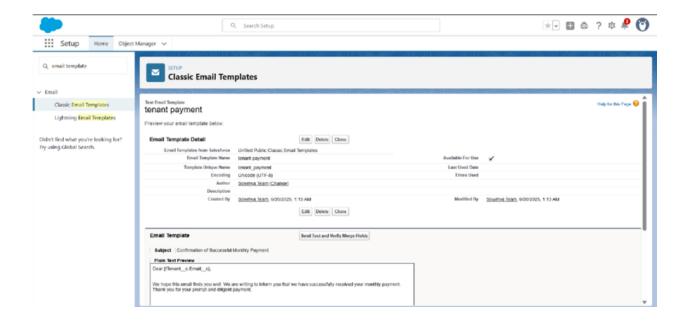
 Built and tested email templates for leave request, approval, rejection, payment, and reminders





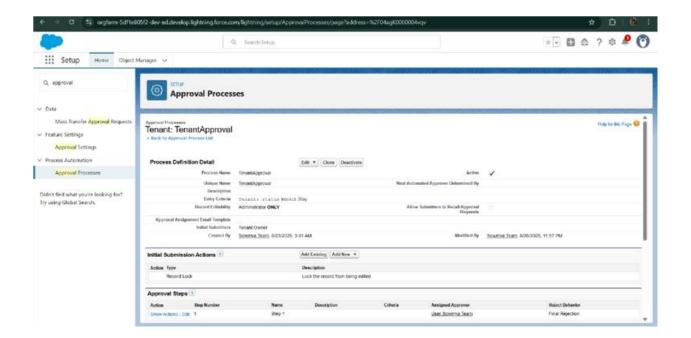




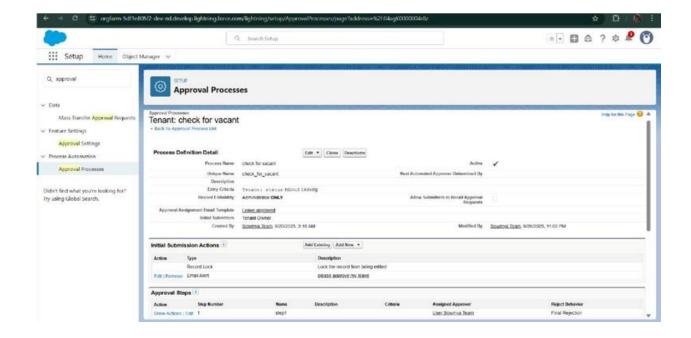


Approval Process creation

For Tenant Leaving:

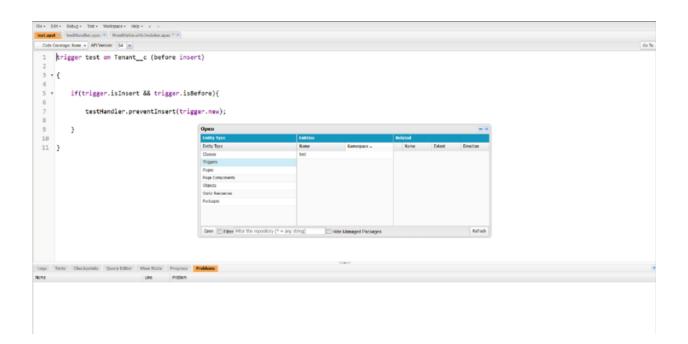


For Check for Vacant:



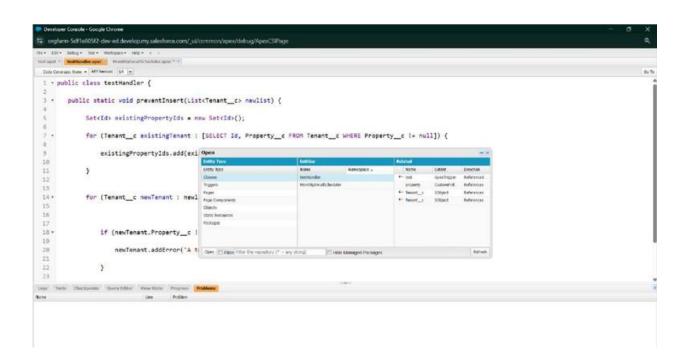
Apex Trigger

Create an Apex Trigger



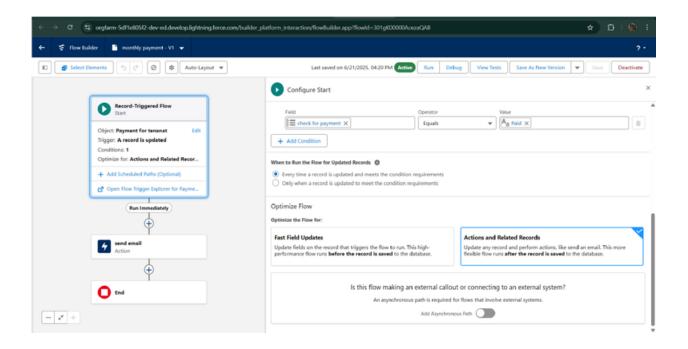
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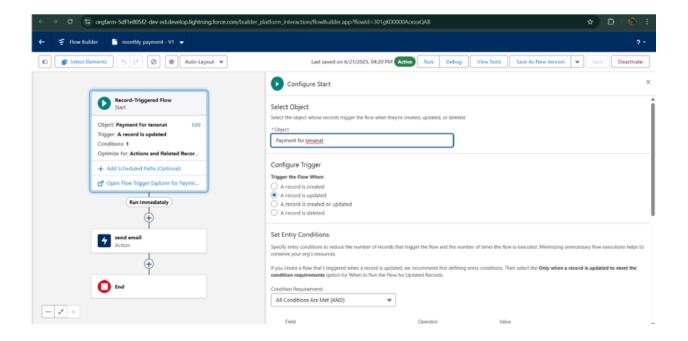
Create an Apex Handler class



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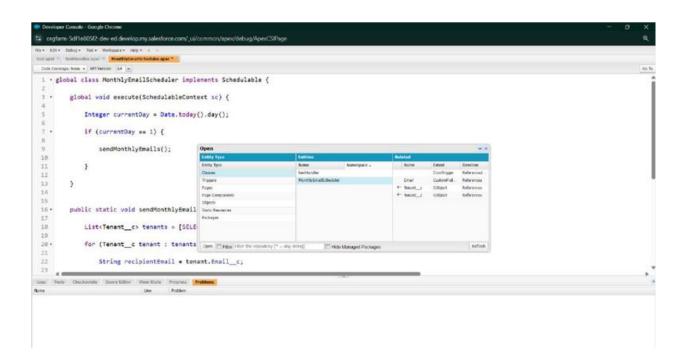
FLOWS





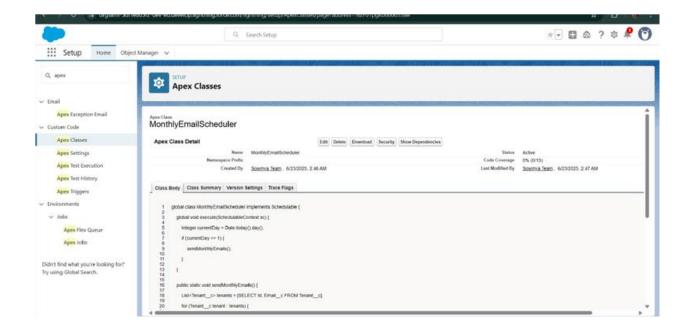
• Schedule class:

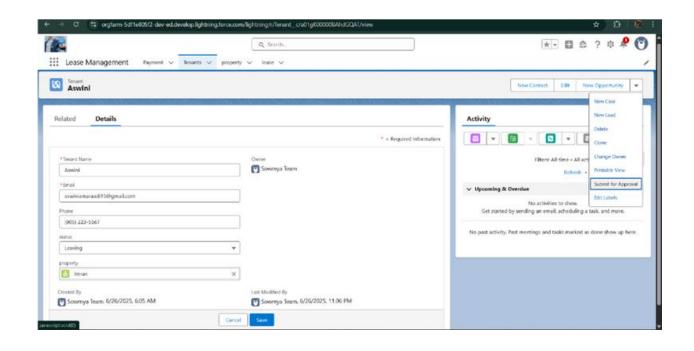
Create an Apex Class

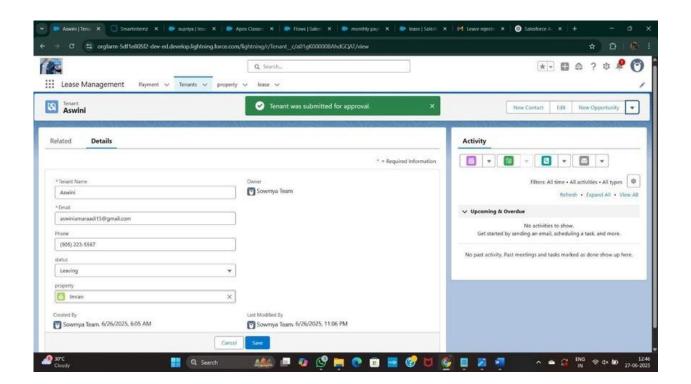


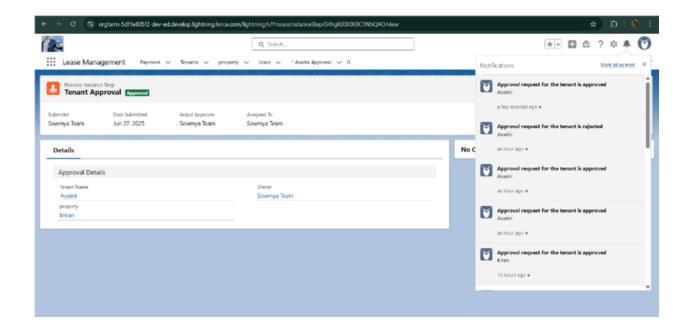
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Schedule Apex class





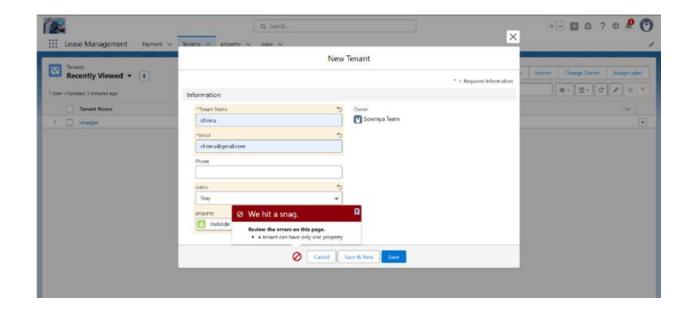




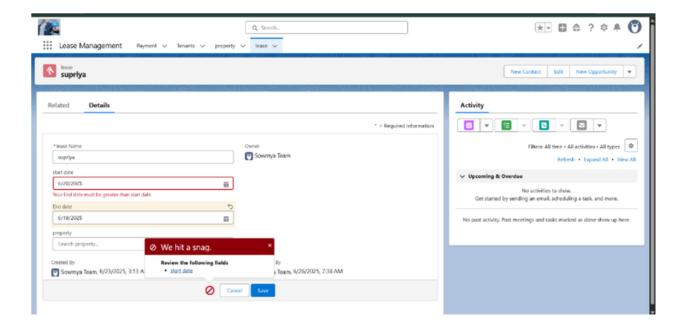
FUNCTIONAL AND PERFORMANCE TESTING

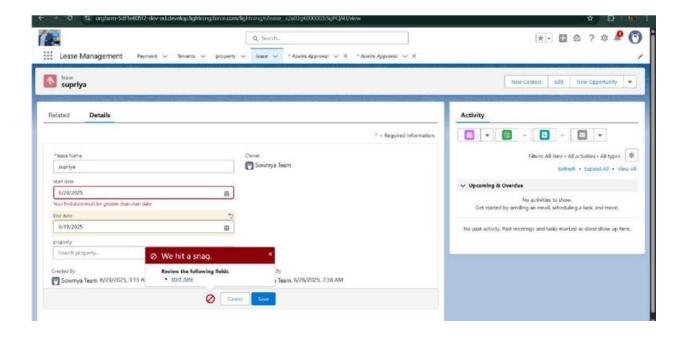
Performance Testing

Triggervalidationbyentering duplicate tenant-property records

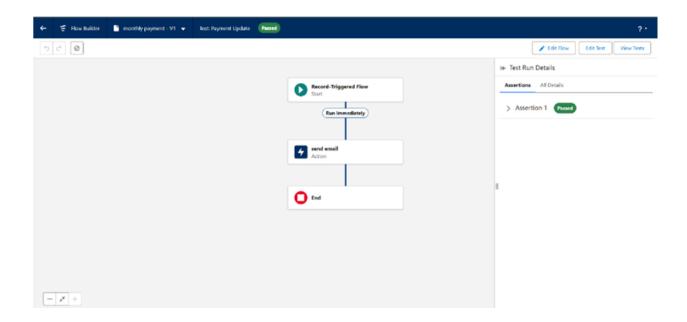


Validation Rule checking

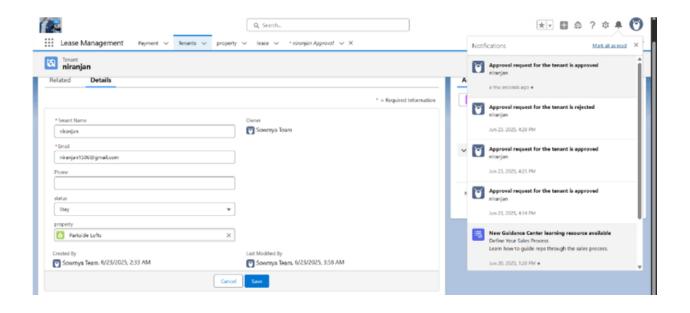


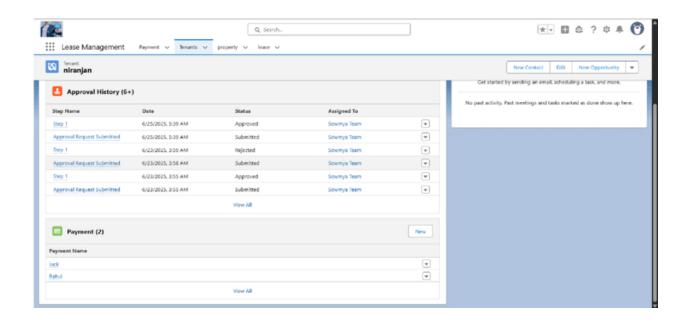


Test flows on payment update



Approval process validated through email alerts and status updates

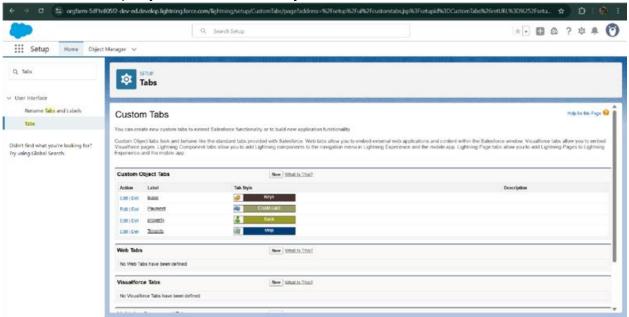




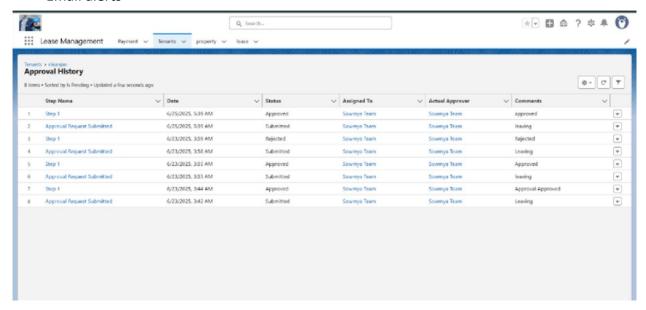
RESULTS

Output Screenshots

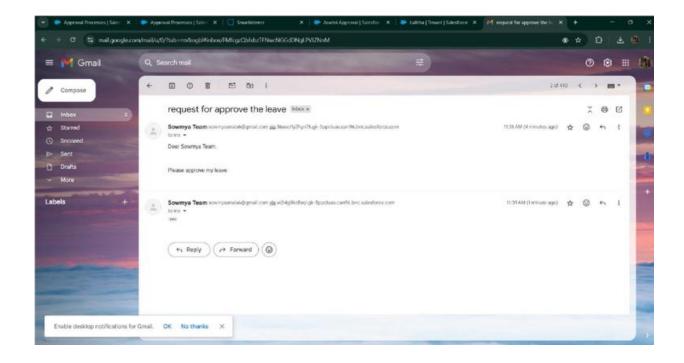
• Tabs for Property, Tenant, Lease, Payment



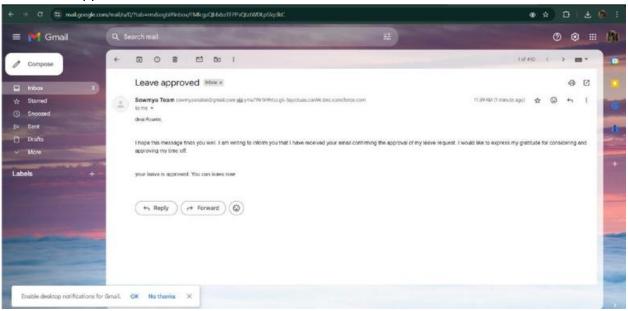
Email alerts



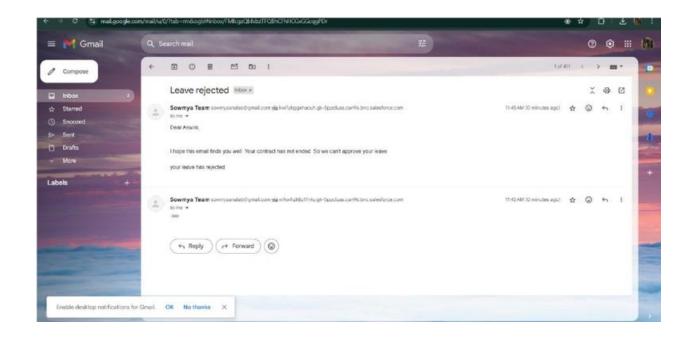
Request for approve the leave



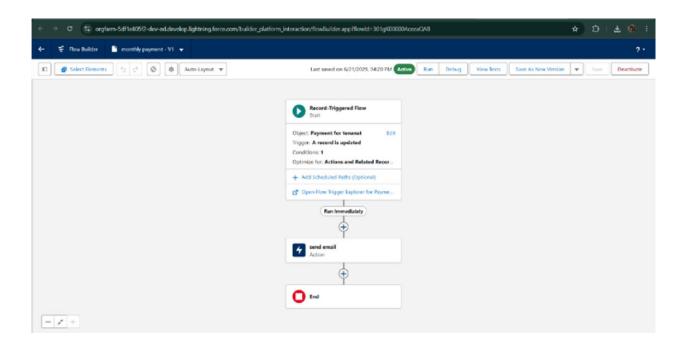
Leave approved



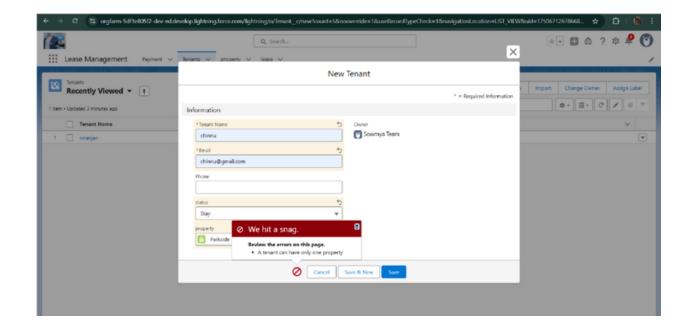
Leave rejected



Flow runs



• Trigger error messages



• Approval process notifications



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ADVANTAGES & DISADVANTAGES CONCLUSION

TheLease Management System successfully streamlines the operations of leasing through a structured, automatedSalesforce 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 teston 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>{

existingPropertyId

s = 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});

}
```