LEASE MANAGEMENT

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1.INTRODUCTION

1.1 Project Overview

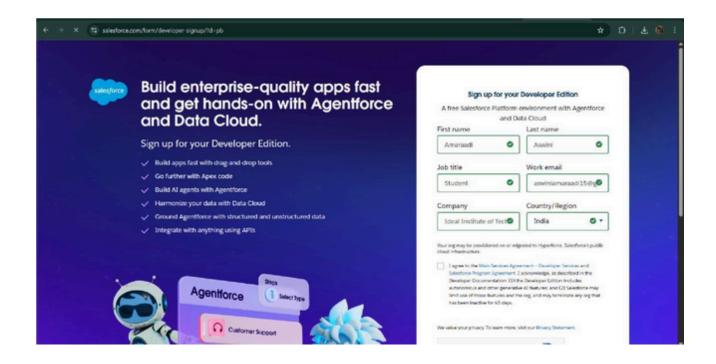
The Lease Management System is a Salesforce-based application designed to streamline the processes associated with leasing real estate properties. It handles tenant management, lease contracts, payments, and communication with automation features such as flows, approval processes, and email alerts.



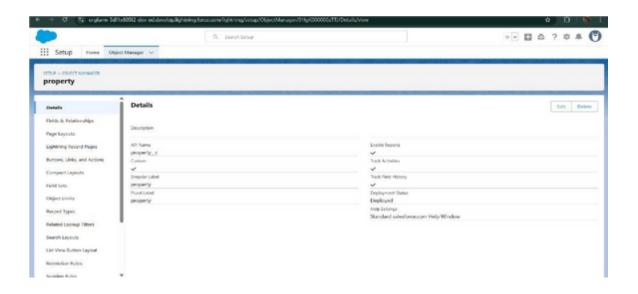
1.2 Purpose

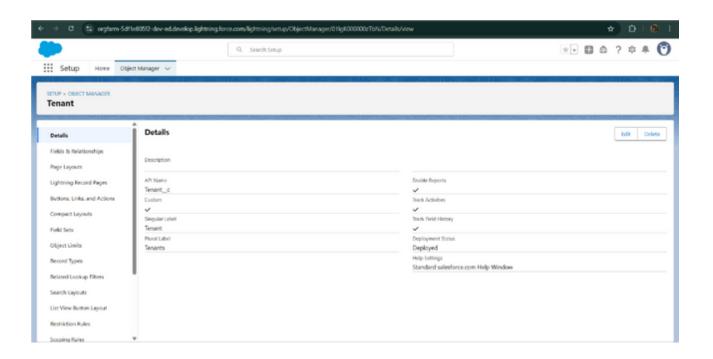
The main objective of the project is to enable organizations to efficiently manage properties, tenants, and lease-related activities. It reduces manual intervention, improves accuracy, and ensures better compliance and communication.

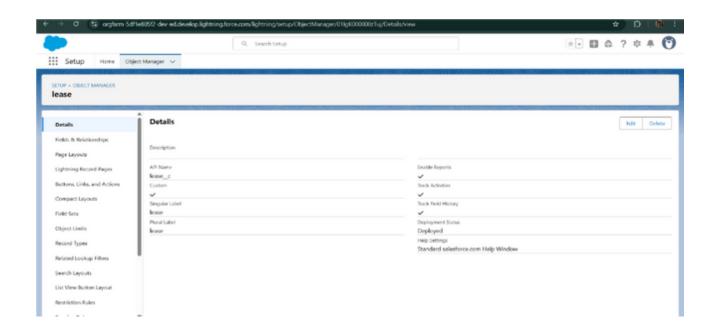
DEVELOPMENT PHASE

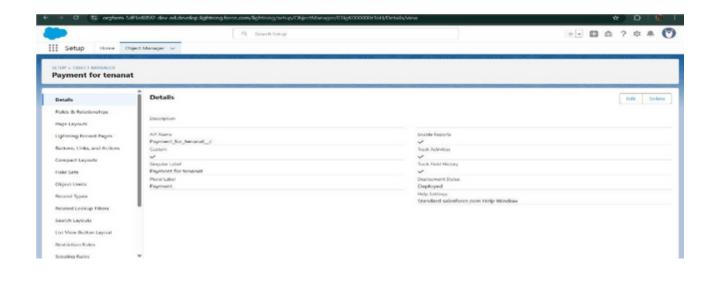


• Created objects: Property, Tenant, Lease, Payment

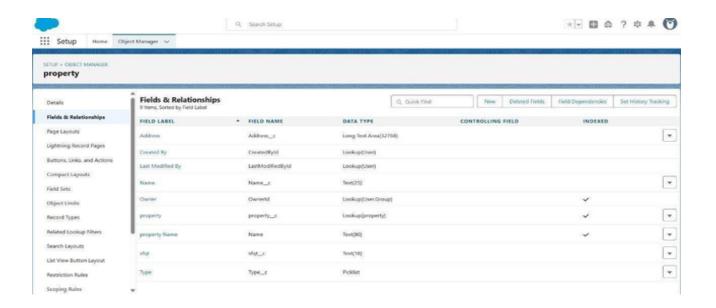


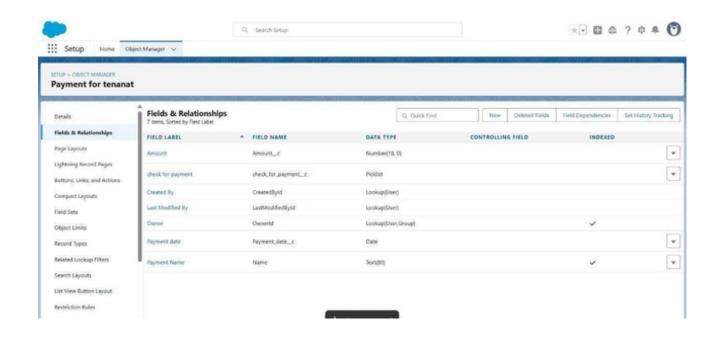


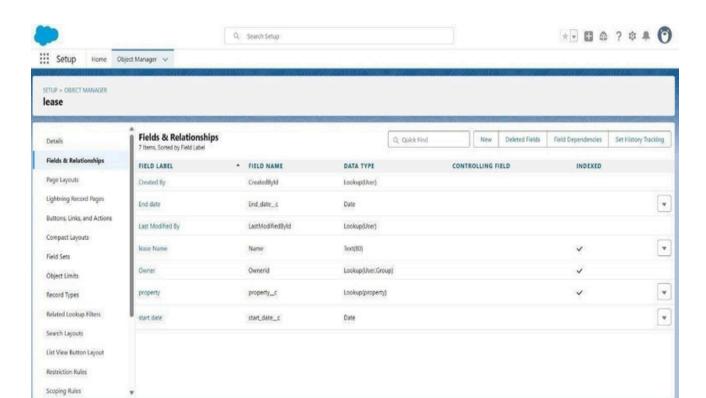


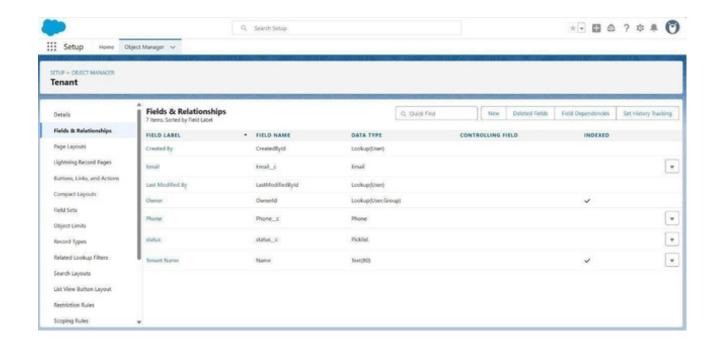


• Configured fields and relationships

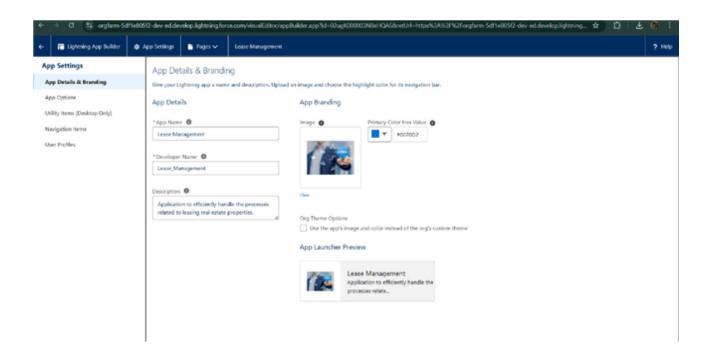


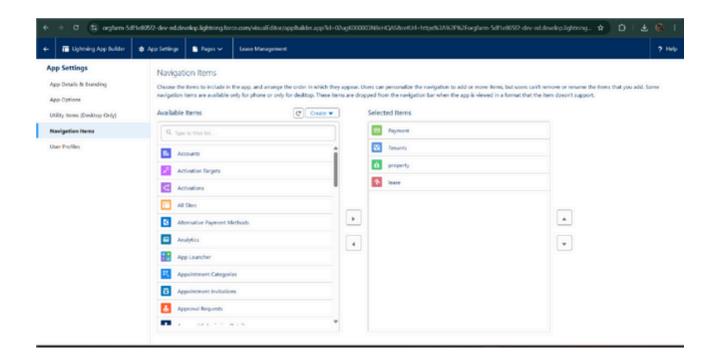


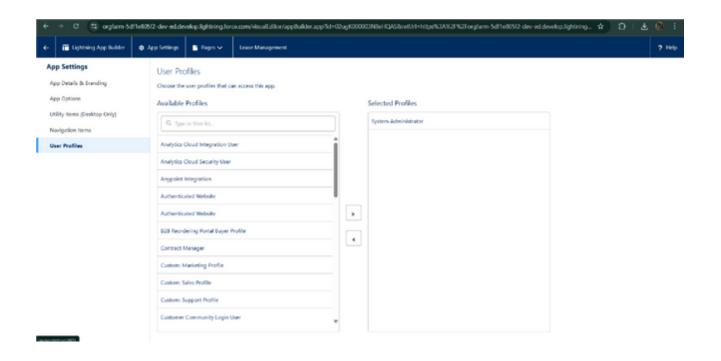


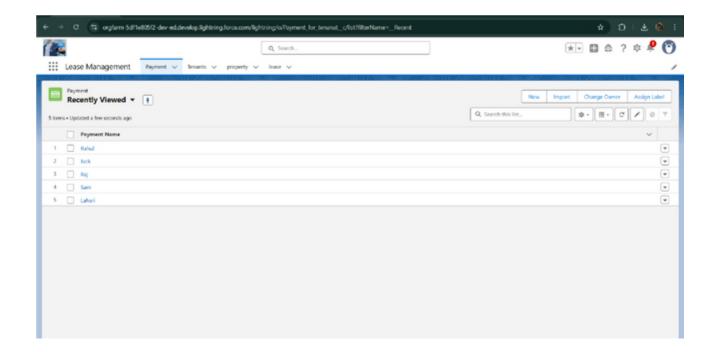


• Developed Lightning App with relevant tabs

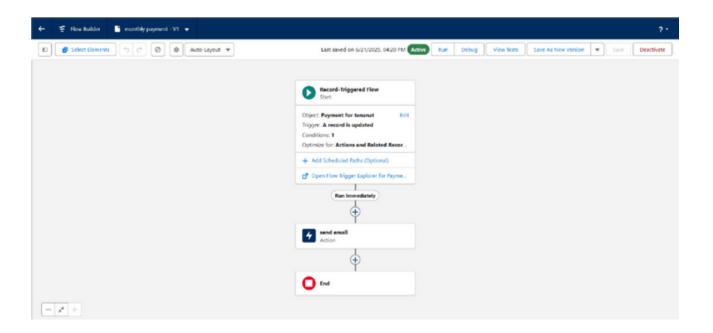




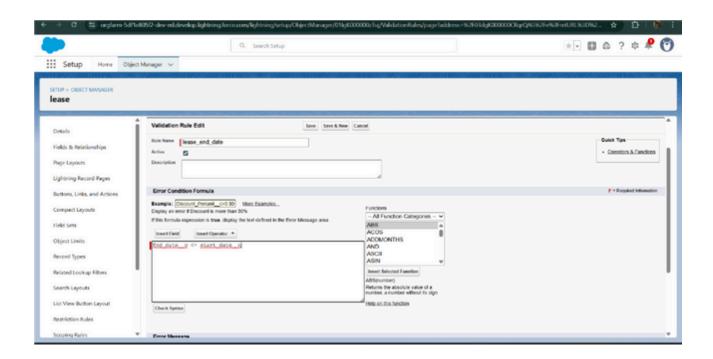


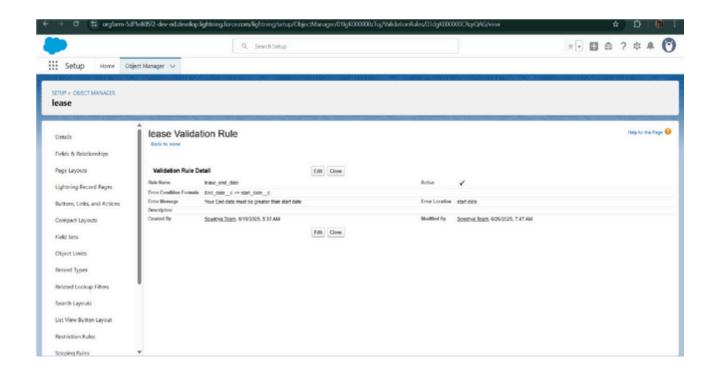


• Implemented Flows for monthly rent and payment success

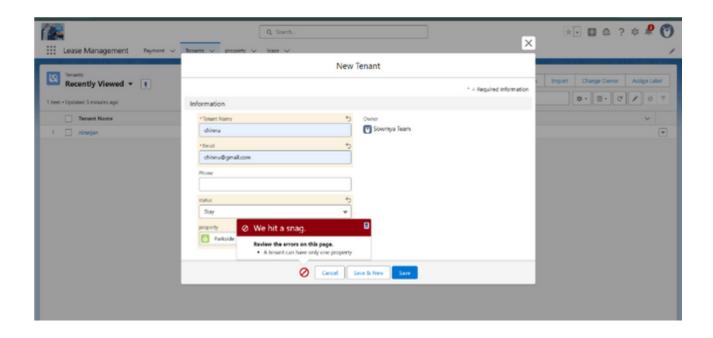


• To create a validation rule to a Lease Object





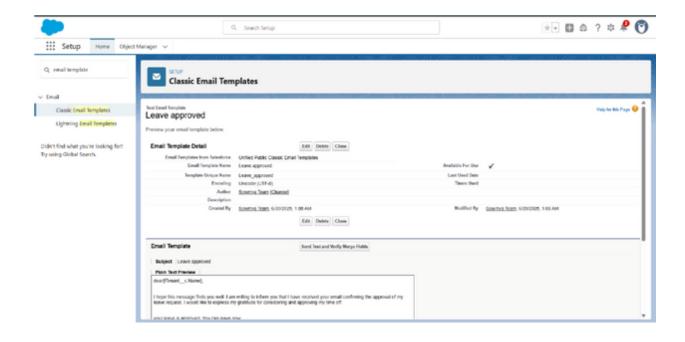
• Added Apex trigger to restrict multiple tenants per property

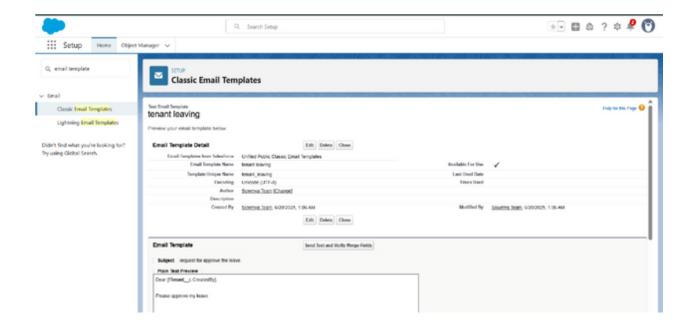


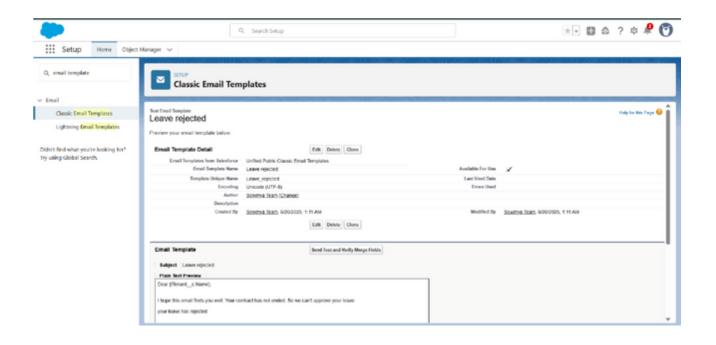
• Scheduled monthly reminder emails using Apex class

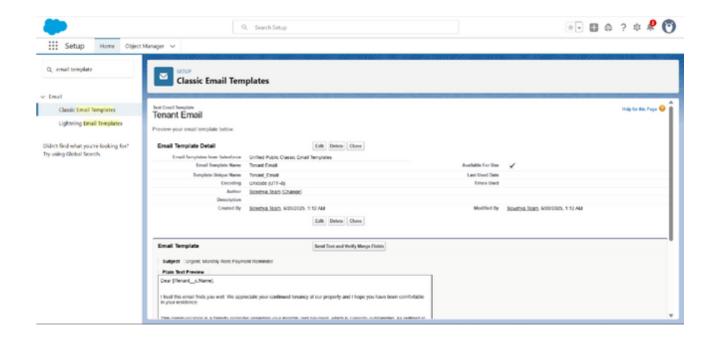
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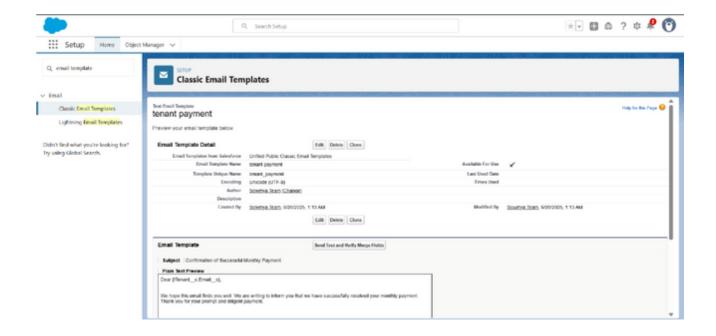
• Built and tested email templates for leave request, approval, rejection, payment, and reminders





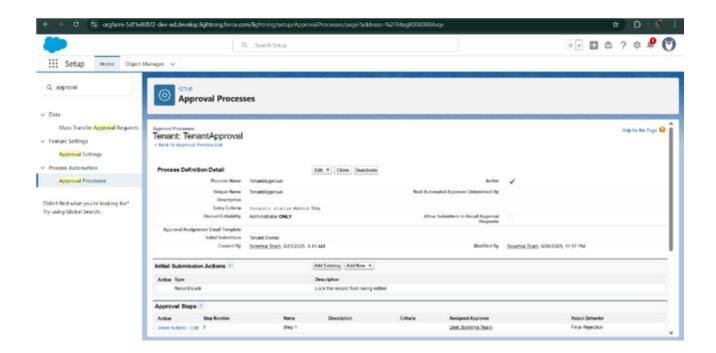




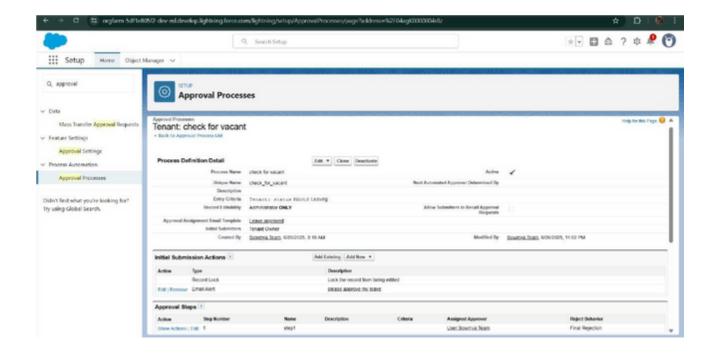


Approval Process creation

For Tenant Leaving:

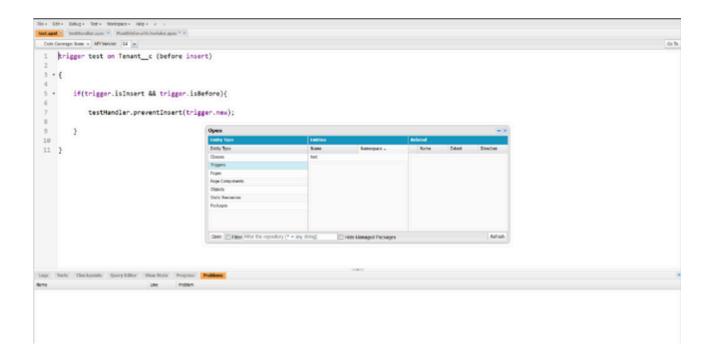


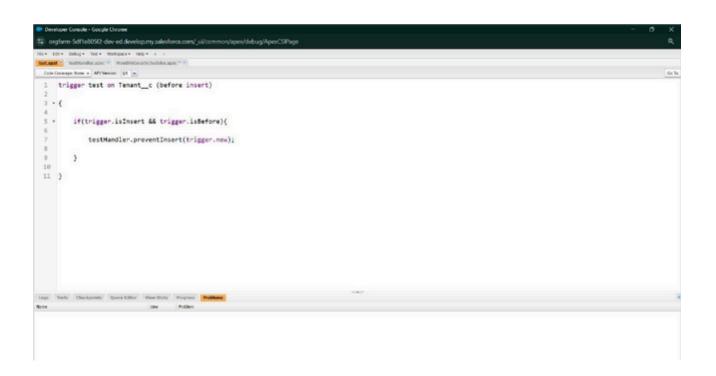
For Check for Vacant:



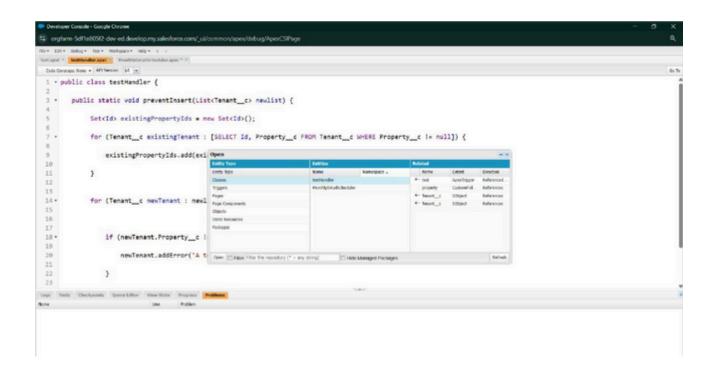
• Apex Trigger

Create an Apex Trigger





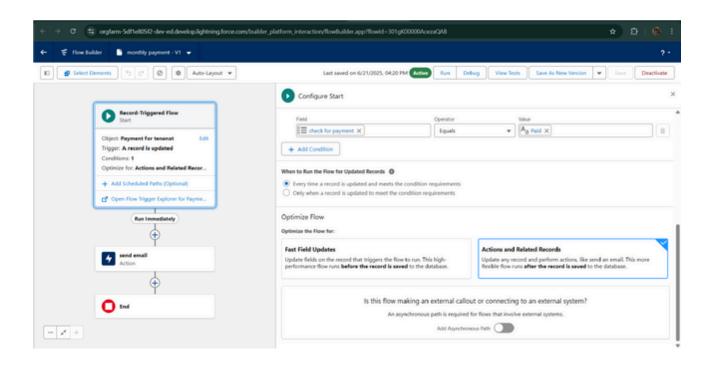
Create an Apex Handler class

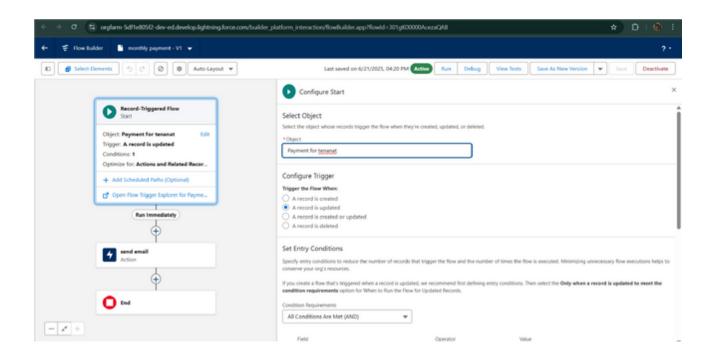


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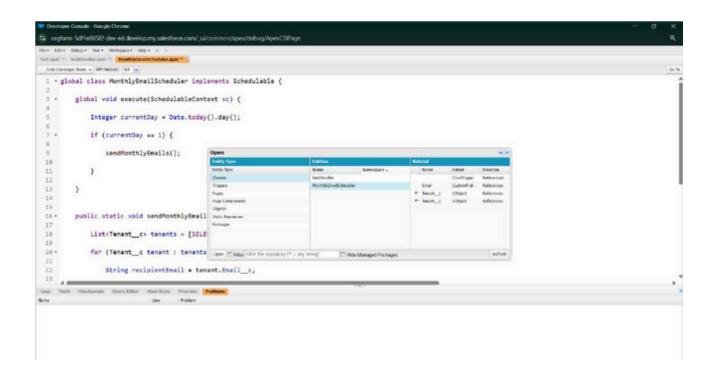
FLOWS





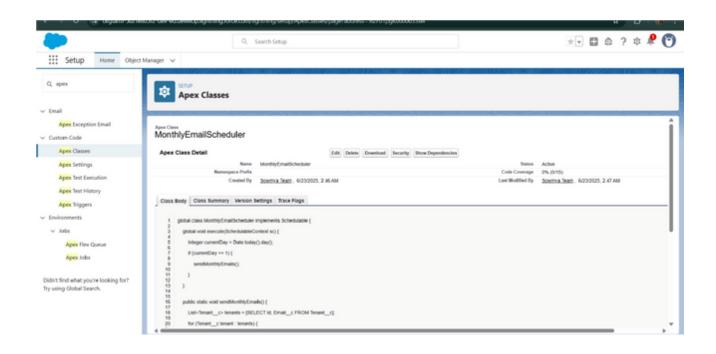
• Schedule class:

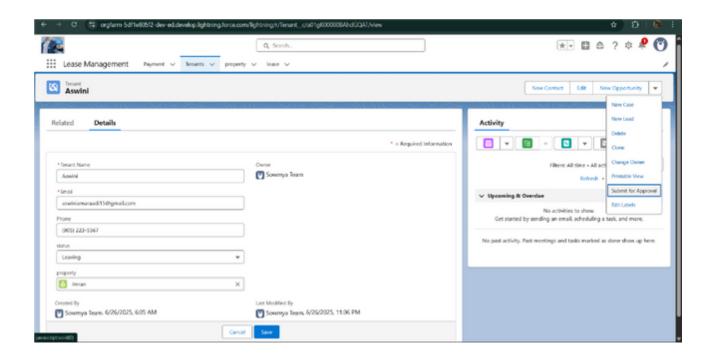
Create an Apex Class

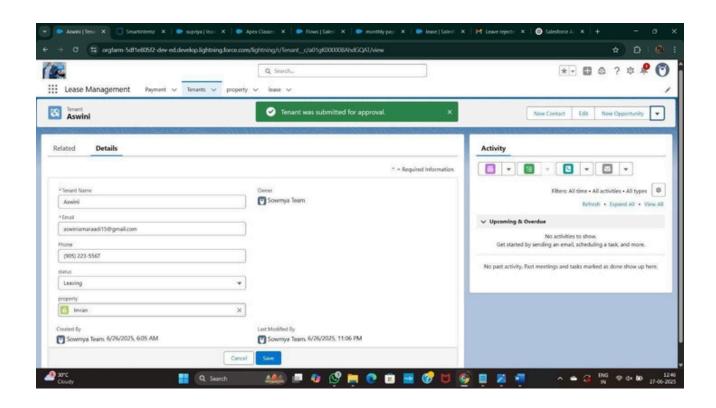


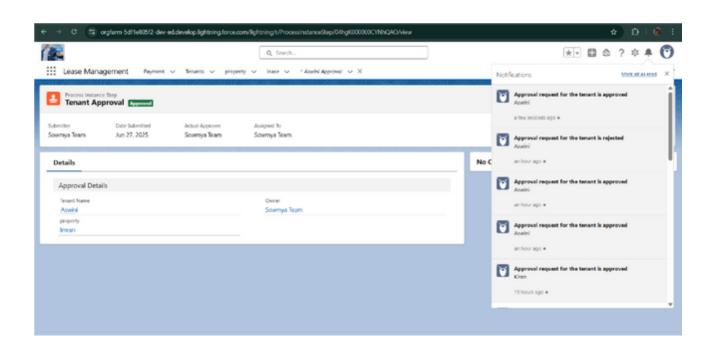
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Schedule Apex class





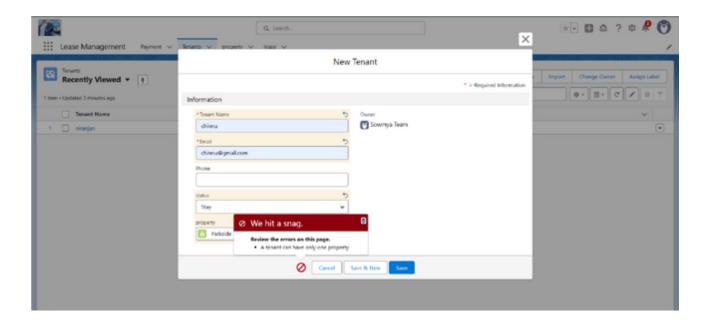




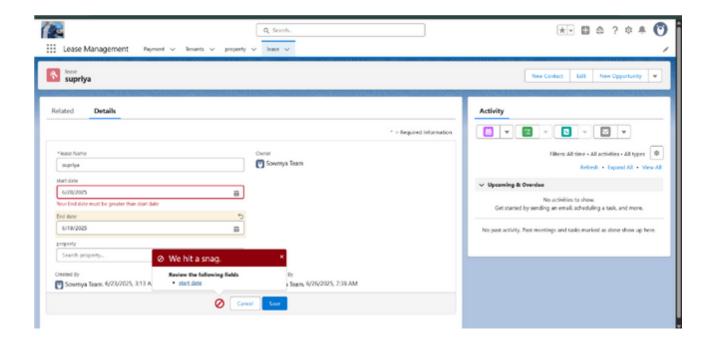
FUNCTIONAL AND PERFORMANCE TESTING

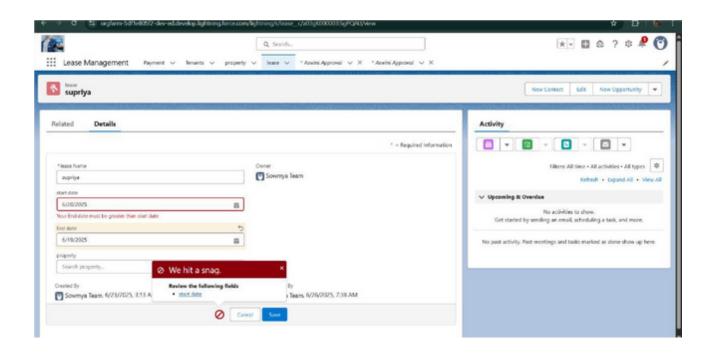
Performance Testing

• Trigger validation by entering duplicate tenant-property records

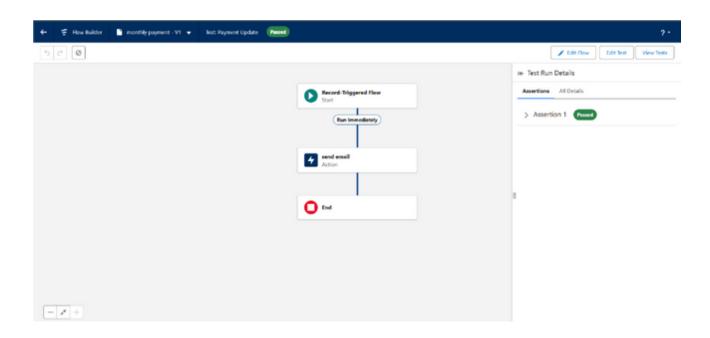


• Validation Rule checking

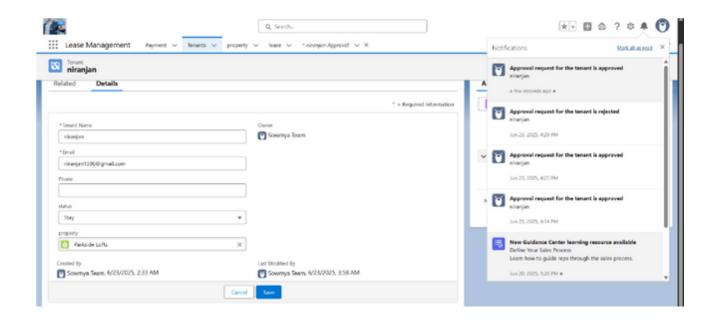


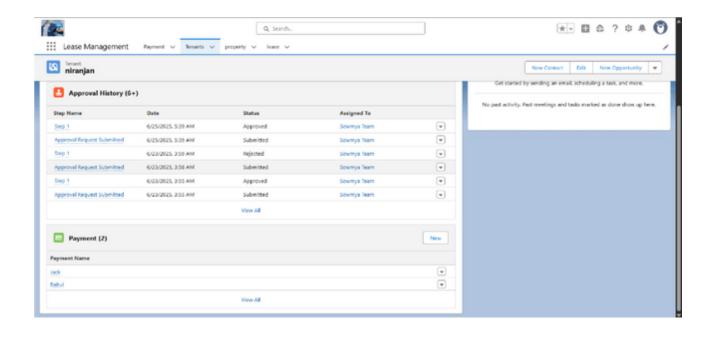


• Test flows on payment update



• Approval process validated through email alerts and status updates

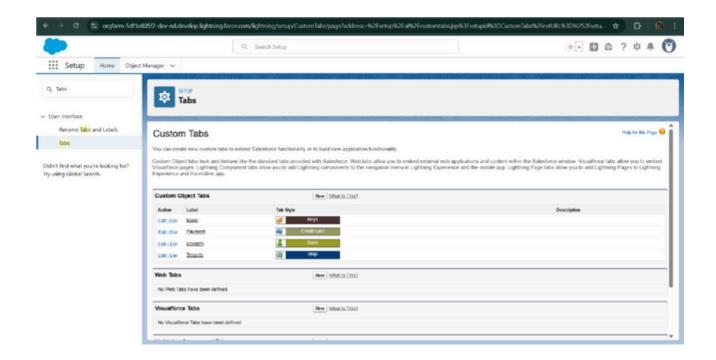




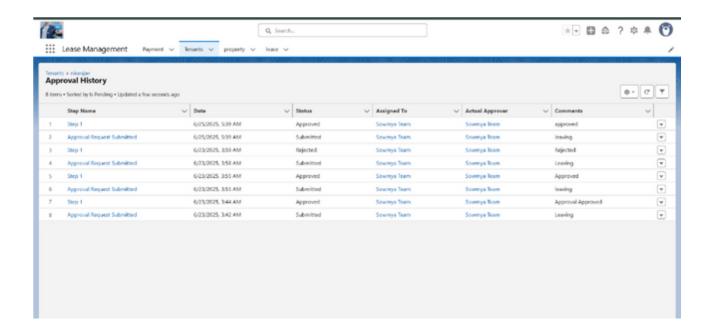
RESULTS

Output Screenshots

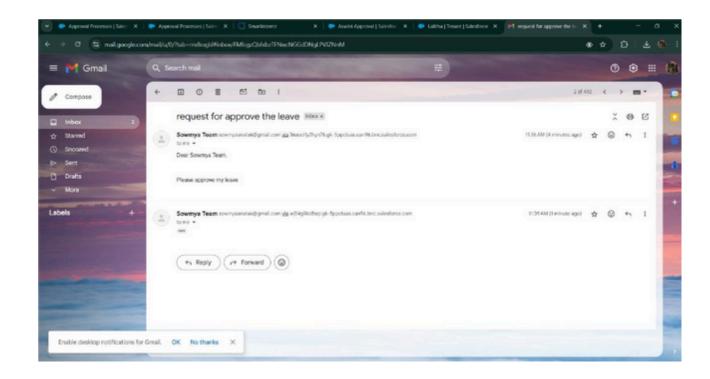
• Tabs for Property, Tenant, Lease, Payment



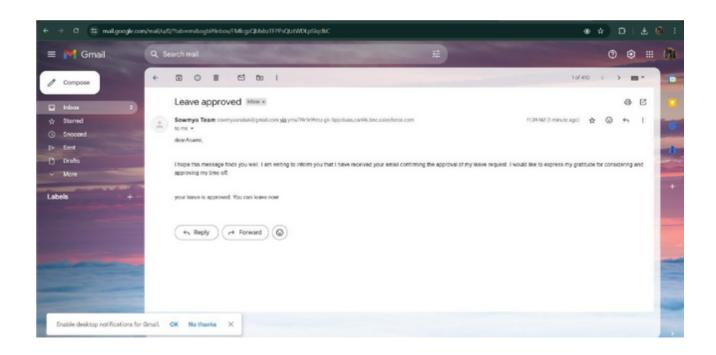
Email alerts



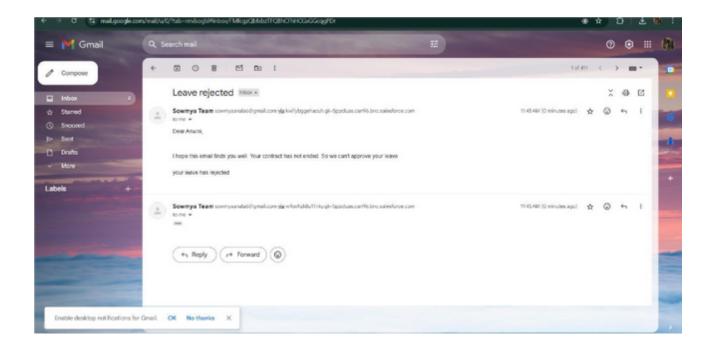
Request for approve the leave



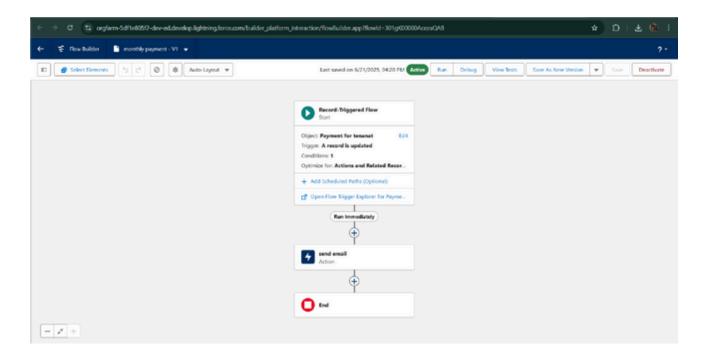
Leave approved



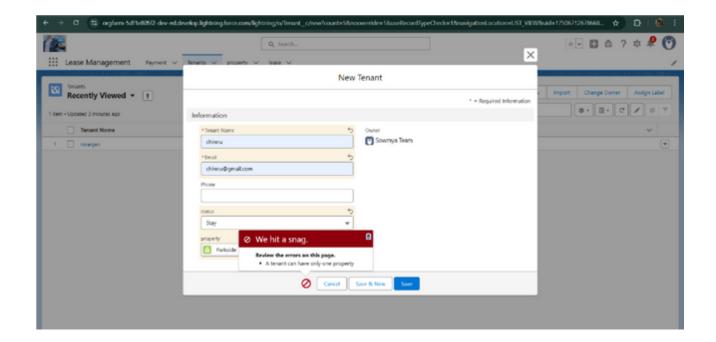
Leave rejected



• Flow runs



• Trigger error messages



• Approval process notifications



APPENDIX

• Source Code: Provided in Apex Classes and Triggers

```
<u>Test.apxt:</u> 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<</pre>
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}); }}
```

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.