LEASE MANAGEMENT

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College code: bruaj

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1.INTRODUCTION

1.1 Project overview

The Lease Management System is a Salesforce-based solution created to simplify and manage leasing activities for real estate properties efficiently.



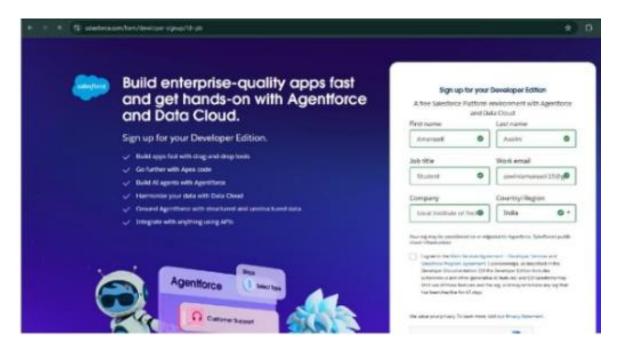
1.2 Purpose

The purpose of this project is to provide organizations with an efficient way to handle property, tenant, and lease-related operations. It minimizes manual efforts, enhances accuracy, and ensures proper compliance and effective communication.

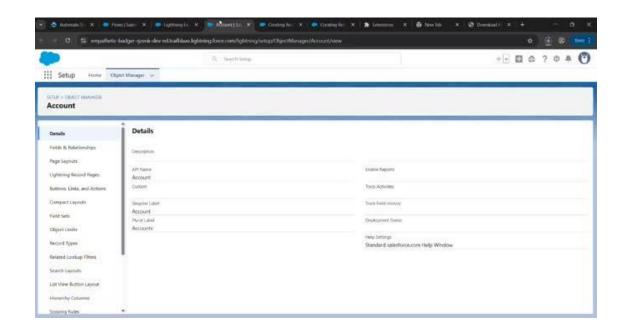
DEVELOPMENT PHASE

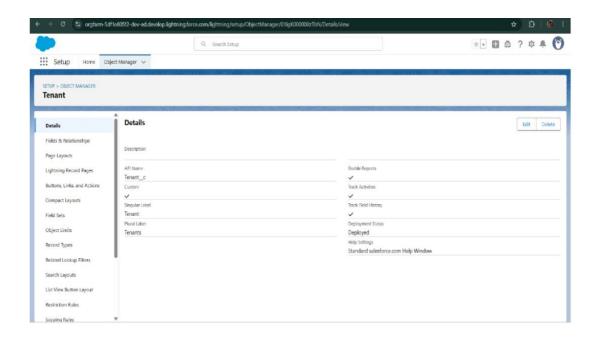
Creating Developer Account:

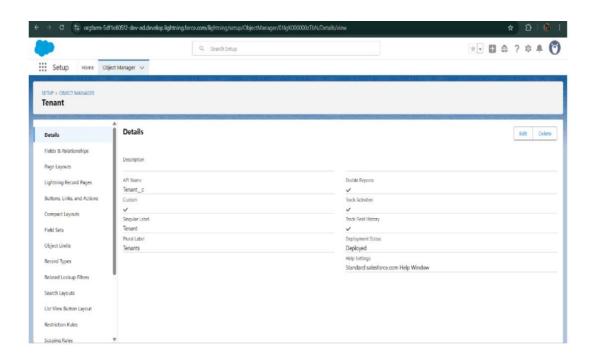
By Using this URL- https://www.salesforce.com/form/developer-signup/?d=pb



• Created objects: Property, Tenant, Lease, Payment

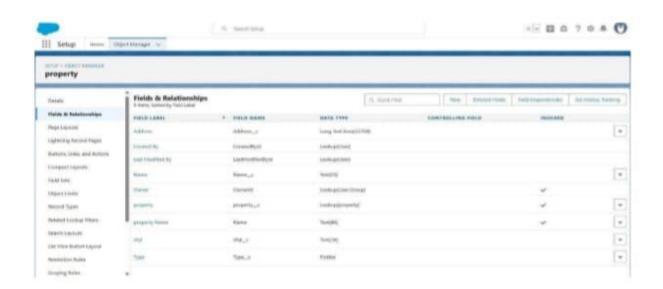


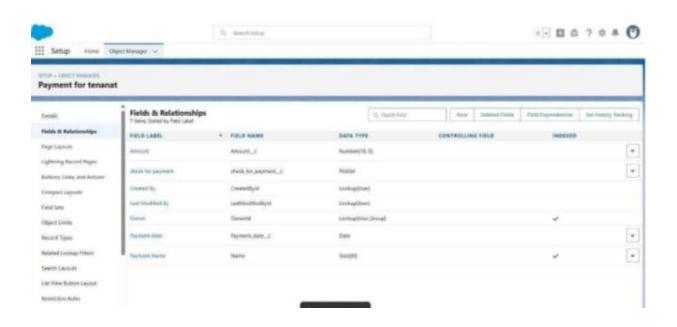


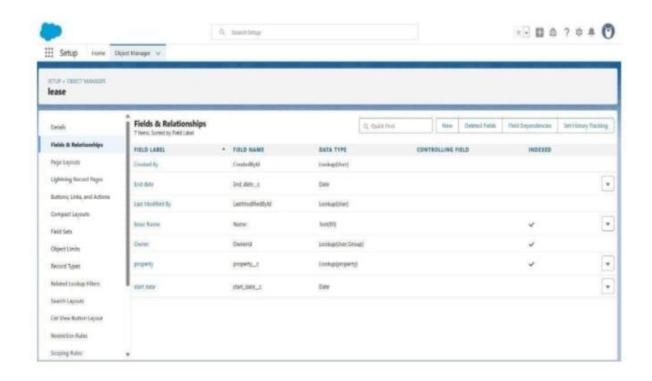


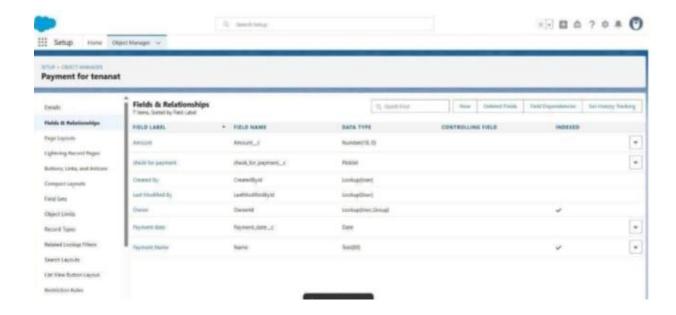


• Configured fields and relationships

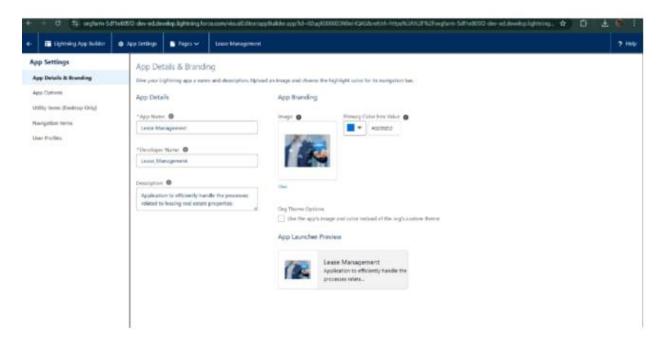


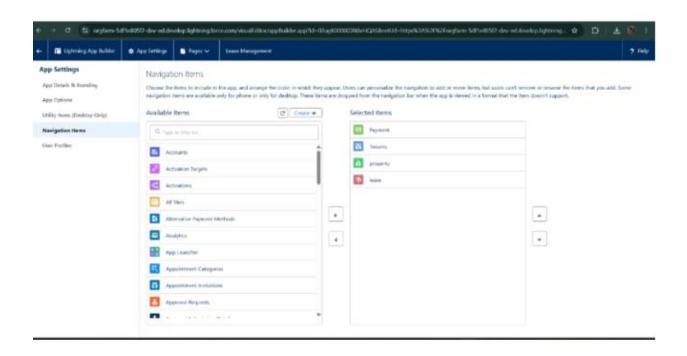


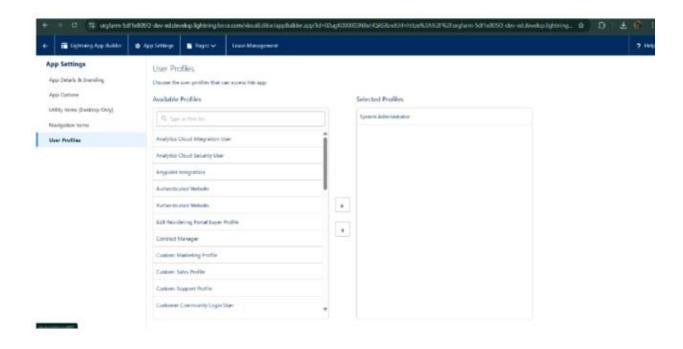


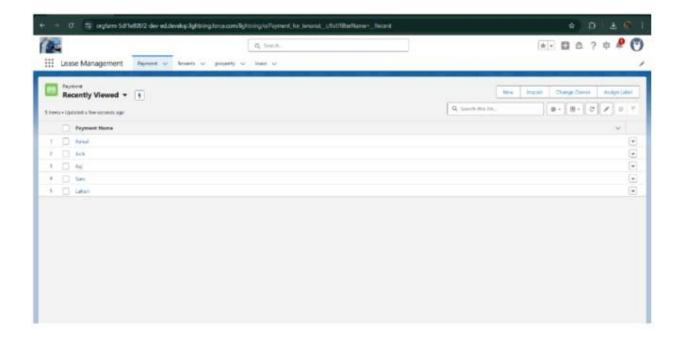


• Developed Lightning App with relevant tabs

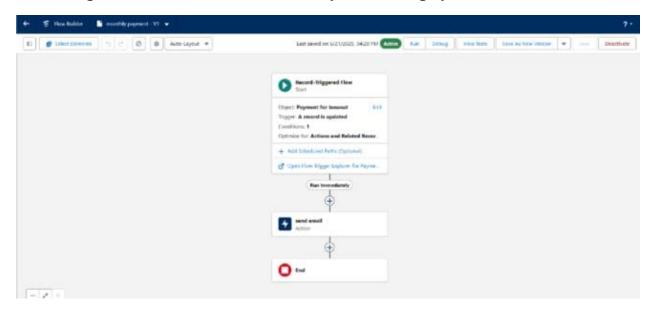




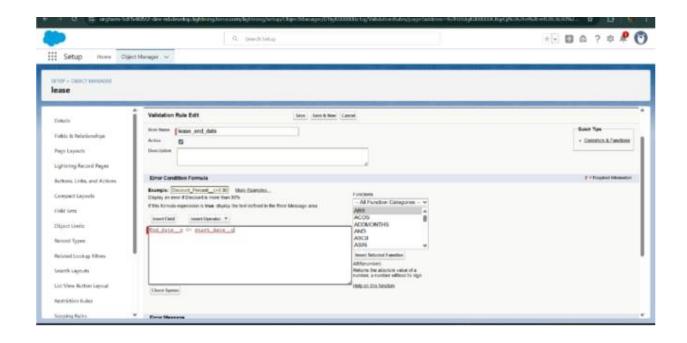


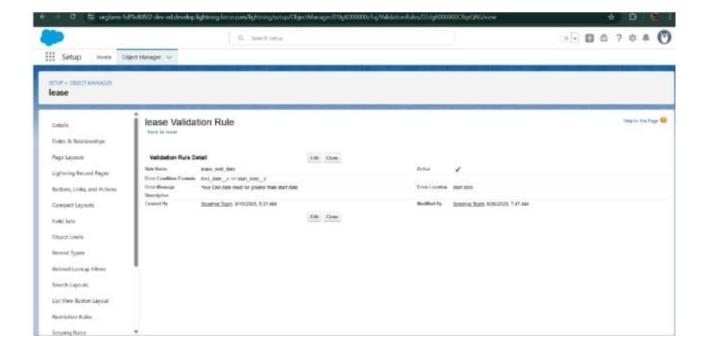


• Implemented Flows for monthly rent and payment success

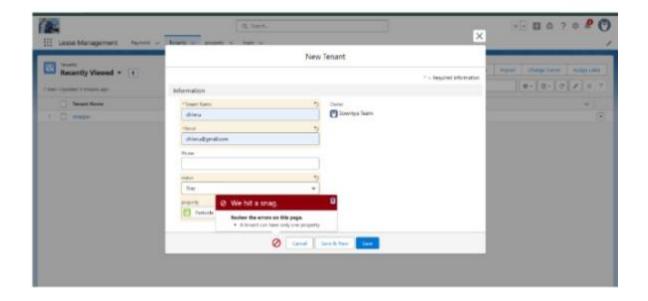


• To create a validation rule to a Lease Object





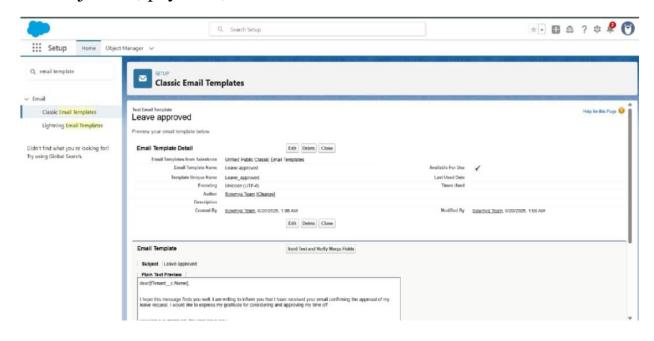
• Added Apex trigger to restrict multiple tenants per property

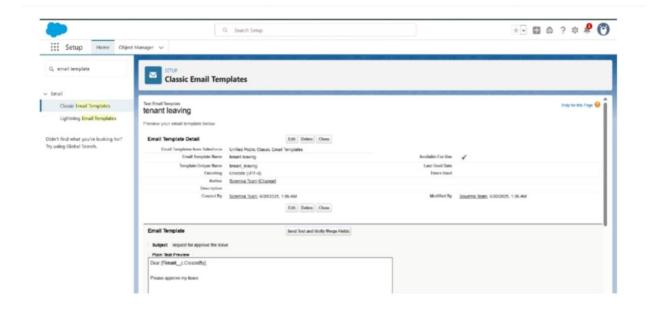


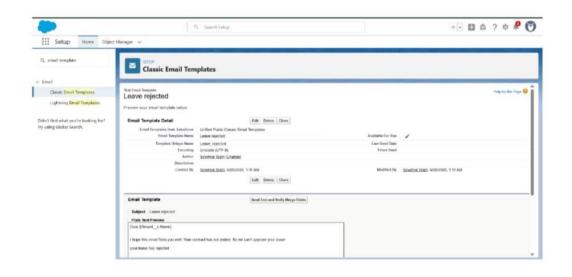
• Scheduled monthly reminder emails using Apex class

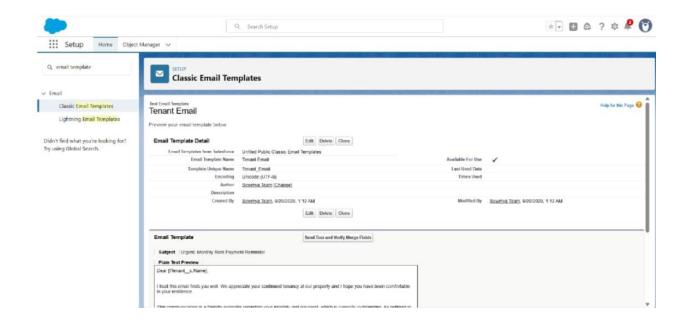
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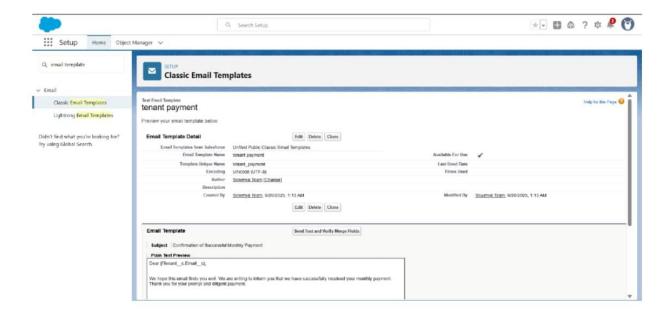
• Built and tested email templates for leave request, approval, rejection, payment, and reminders





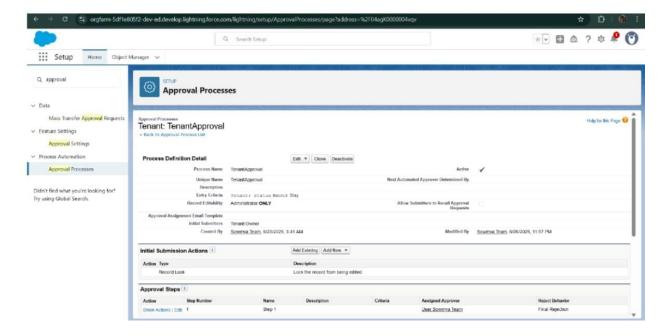




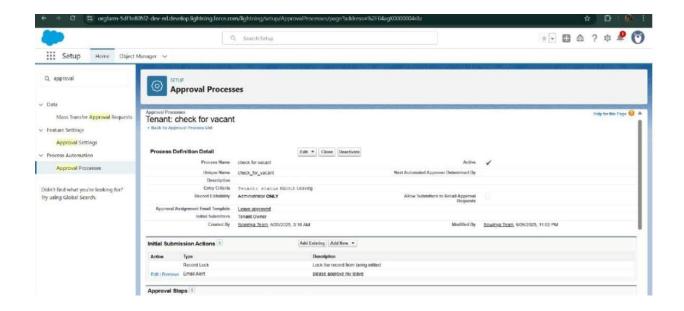


• Approval process creation

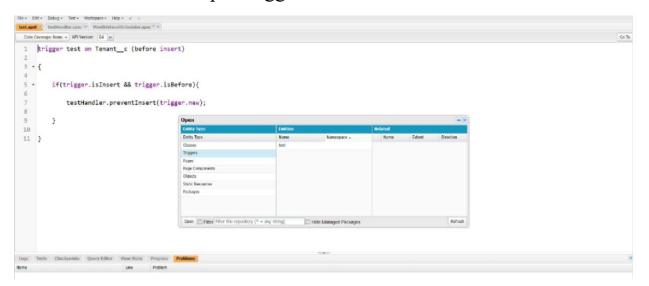
For Tenant Leaving:



For Check for Vacant:

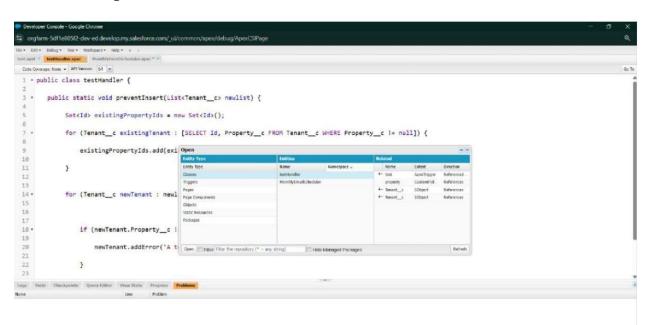


• Apex Tigger Create an Apex Tigger



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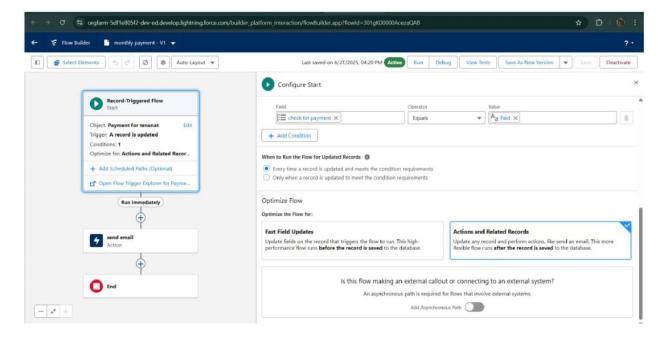
Create an Apex Handler class

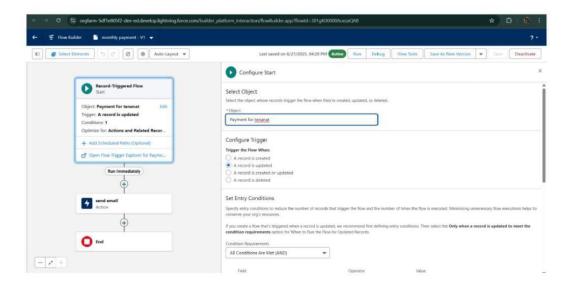


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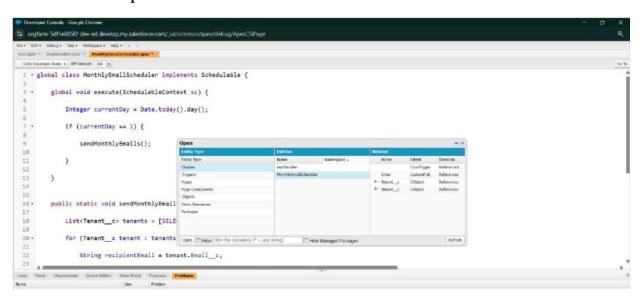
• FLOWS





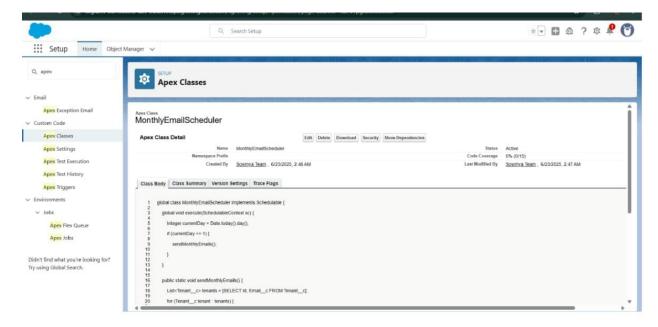
• Schedule class:

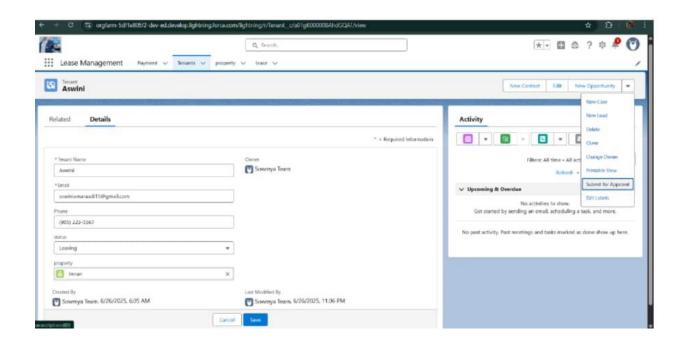
` Create an Apex Class

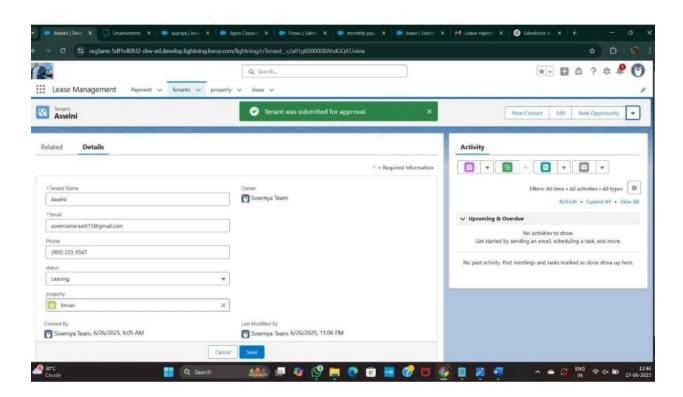


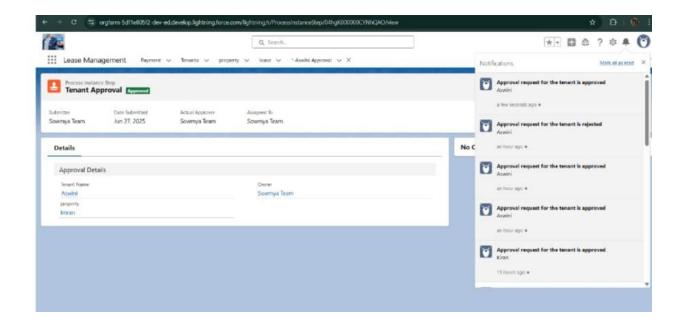
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Schedule Apex class





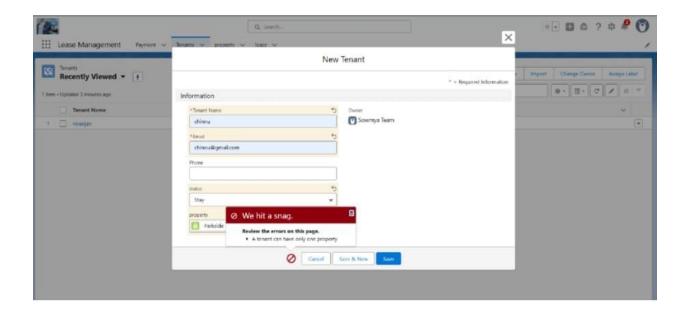




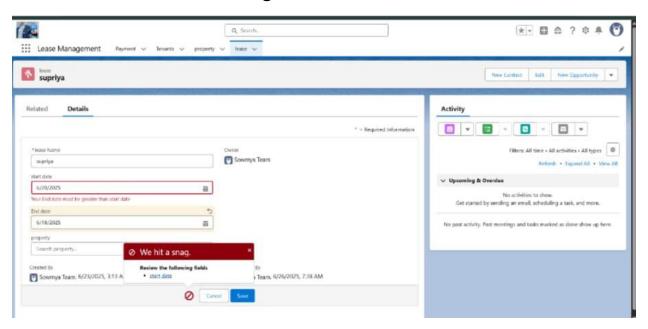
FUNCTIONAL AND PERFORMANCE TESTING

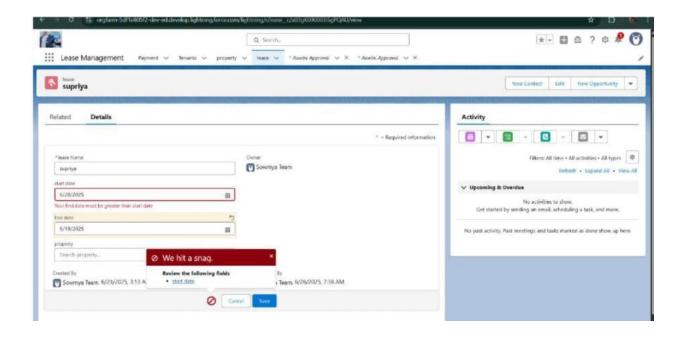
Performance Testing

• Trigger validation by entering duplicate tenant-property records

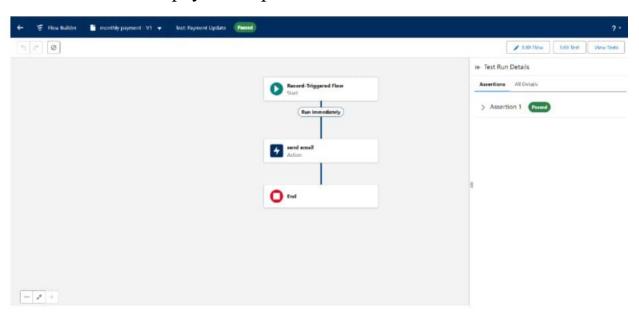


• Validation rule Checking

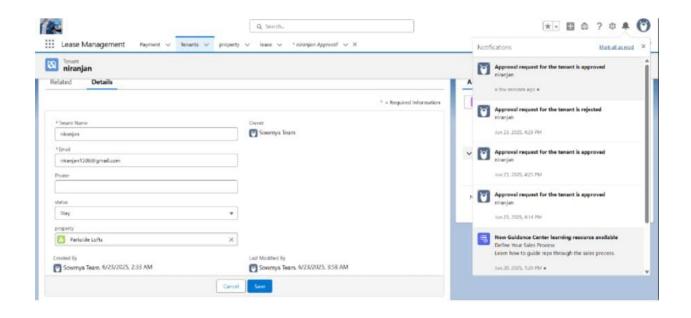


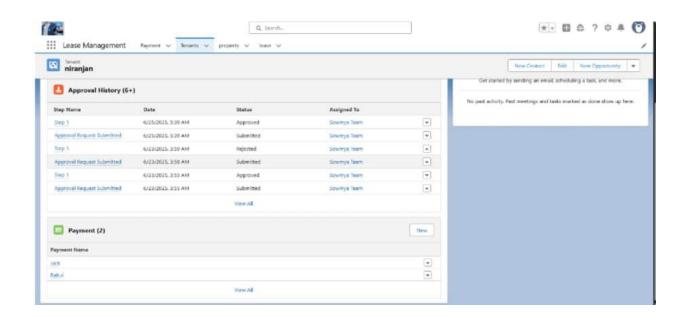


• Test flows on payment update



• Approval process validated through email alerts and status updates

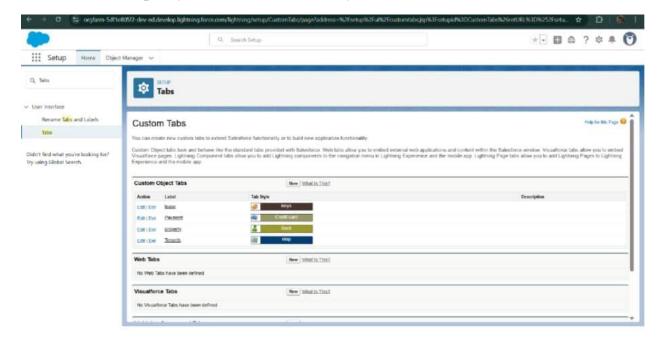




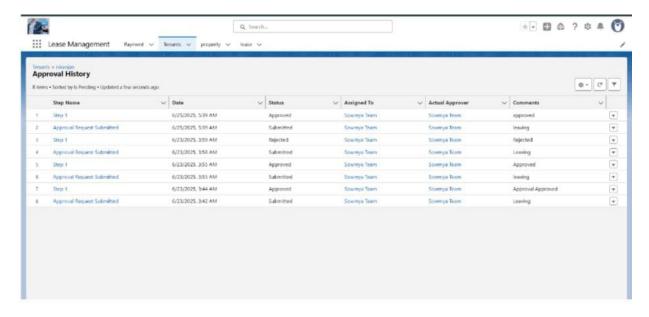
RESULTS

Output Screenshots

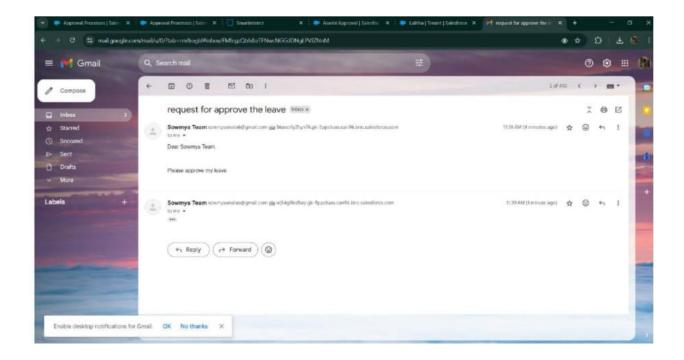
• Tabs for Property, Tenant, Lease, Payment



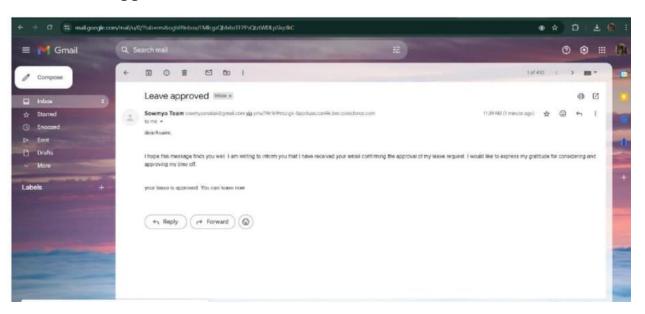
• Email alerts



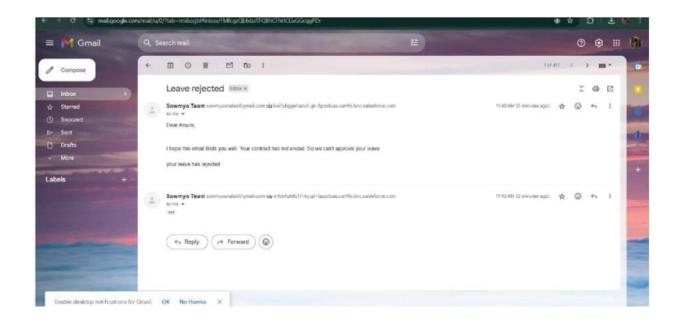
• Request for approve the leave



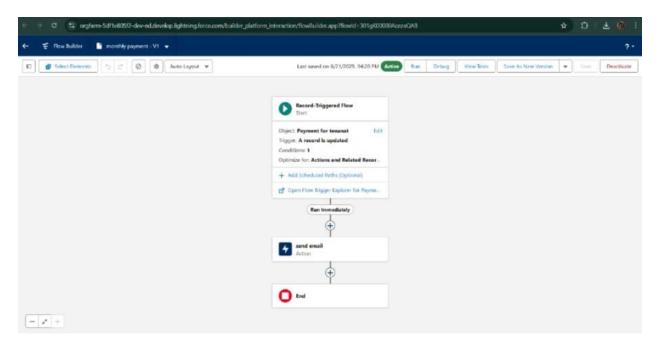
• Leave approval



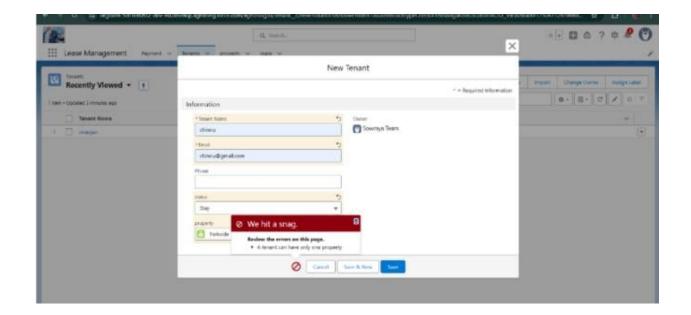
• Leave rejected



• Flow runs



• Trigger error message



• Approval process notifications



ADVANTAGES & DISADVANTAGES

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:

```
existingPropertyIds
= new Set<Id>()
for (Tenant c existingTenant : [SELECT Id, Propertyc 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});
```