LEASE MANAGEMENT

College Name: KG COLLEGE OF ARTS AND SCIENCE

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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.



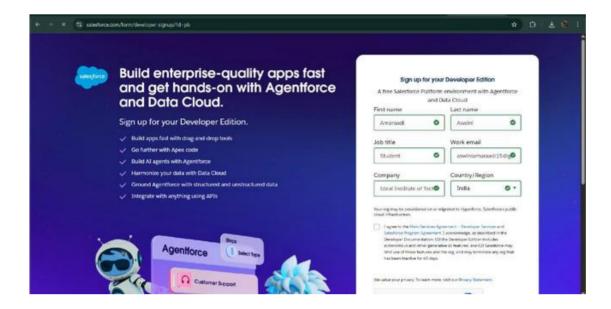
1.2 Purpose

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

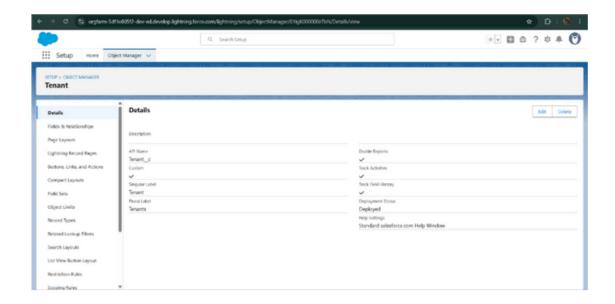
Creating Developer Account:

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

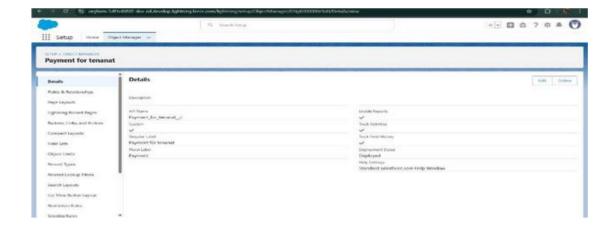


Created objects: Property, Tenant, Lease, Payment

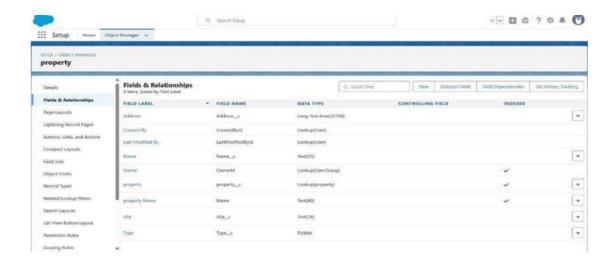


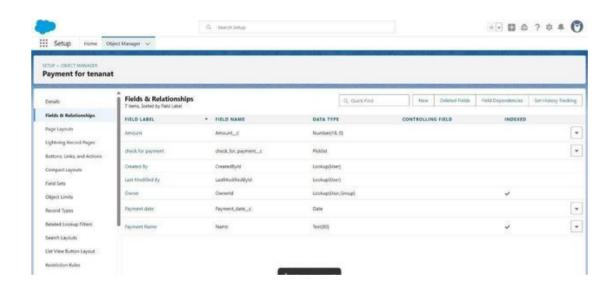


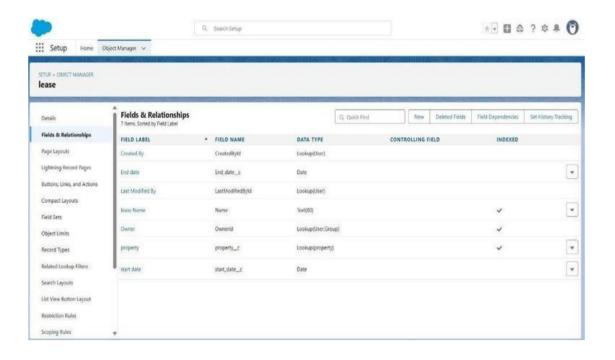


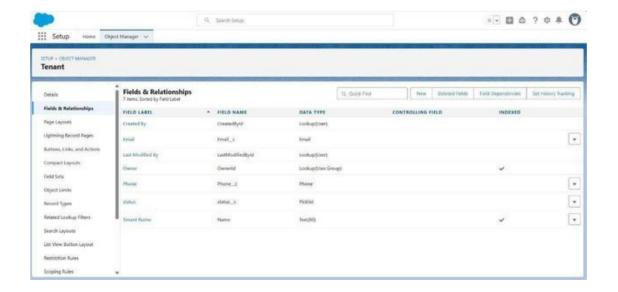


• Configured fields and relationships

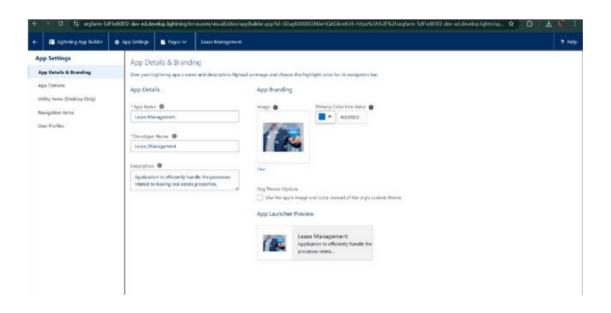


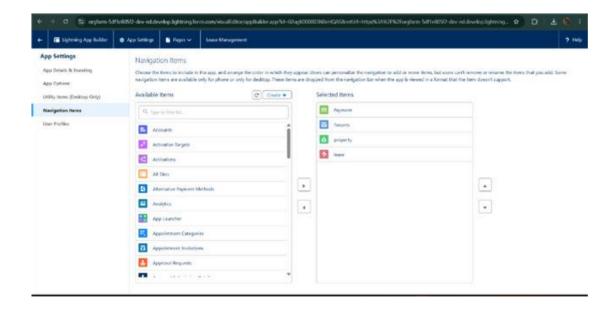


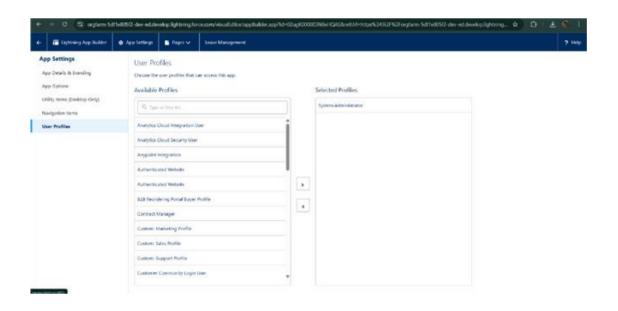


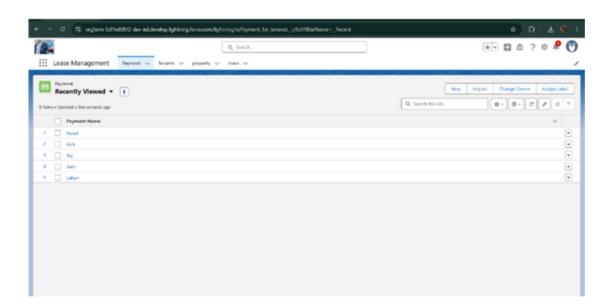


Developed Lightning App with relevant tabs

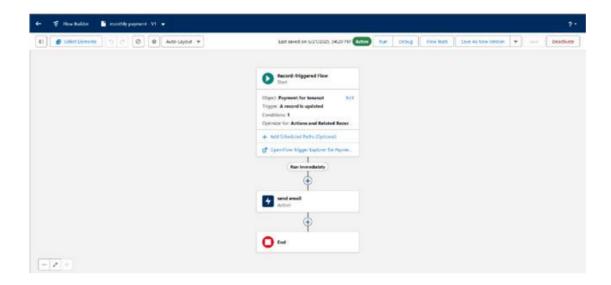




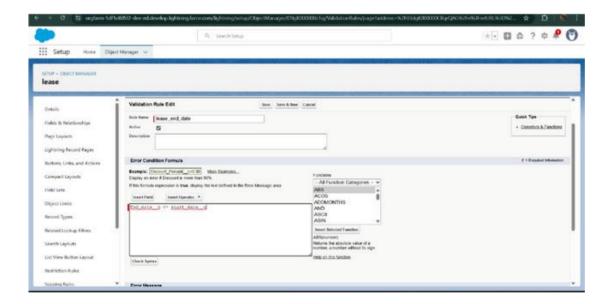


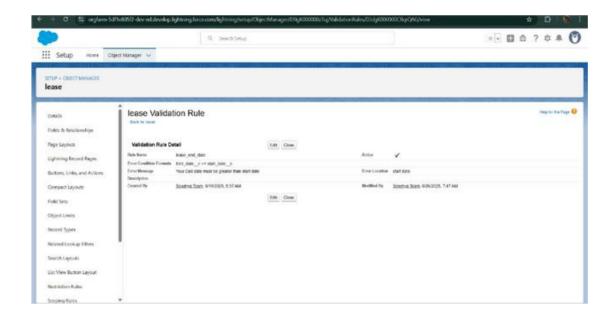


• Implemented Flows for monthly rent and payment success

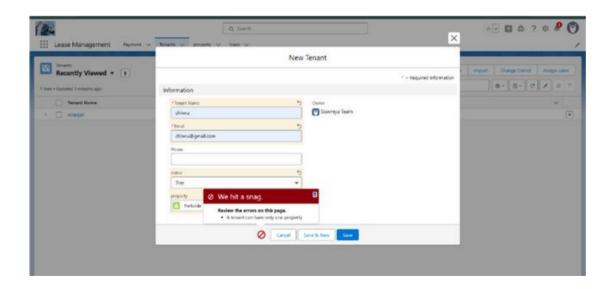


• To create a validation rule to a Lease Object





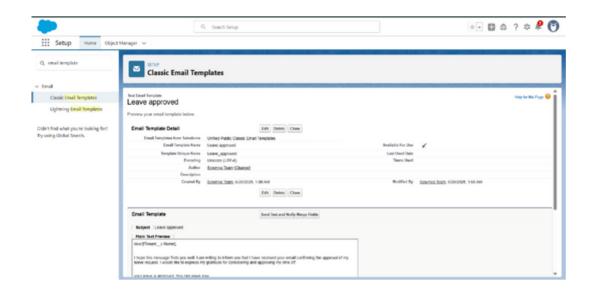
Added Apex trigger to restrict multiple tenants per property

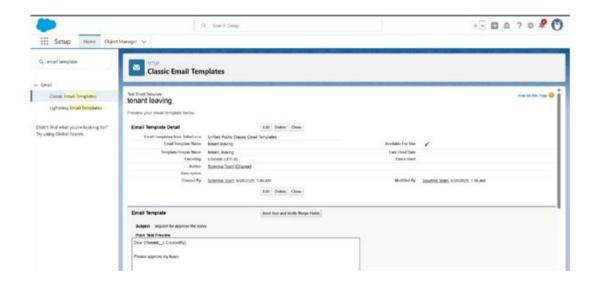


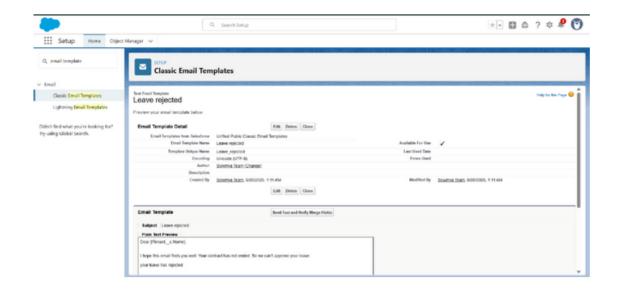
• Scheduled monthly reminder emails using Apex class

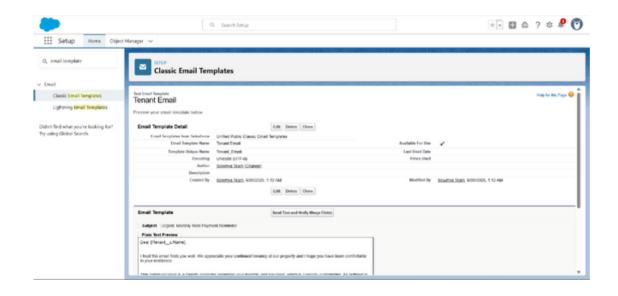
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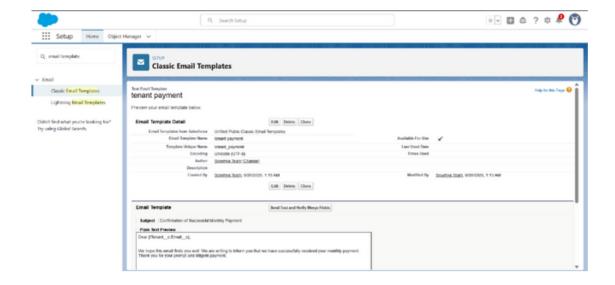
• Built and tested email templates for leave request, approval, rejection, payment, and reminders





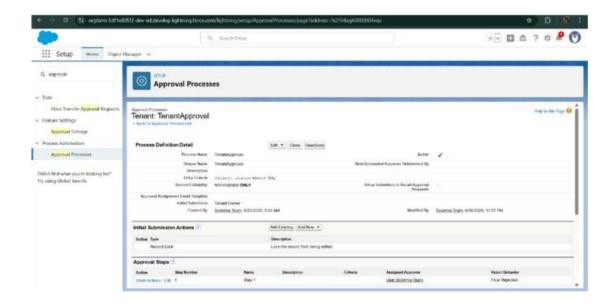




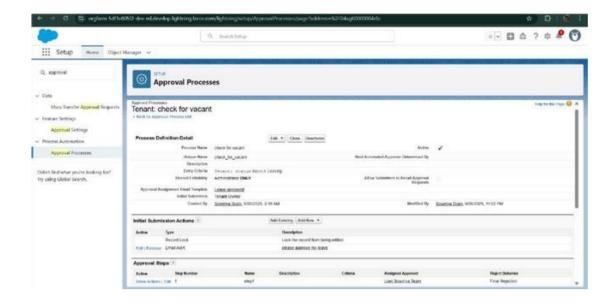


• Approval Process creation

For Tenant Leaving:

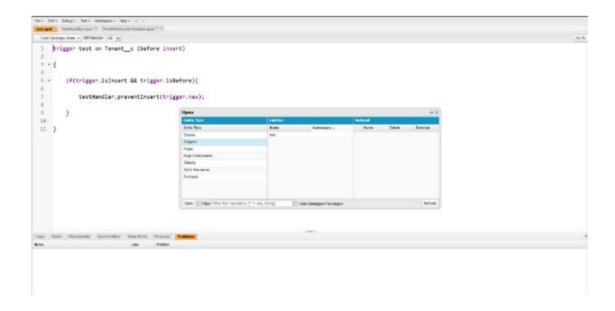


For Check for Vacant:



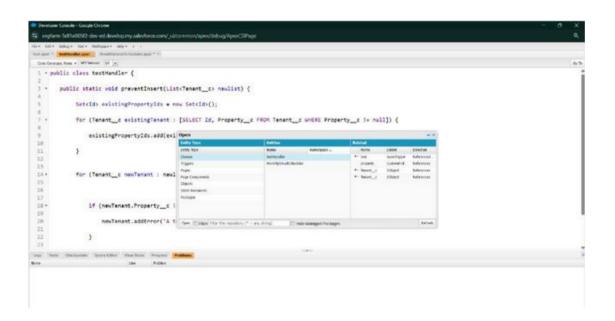
• Apex Trigger

Create an Apex Trigger



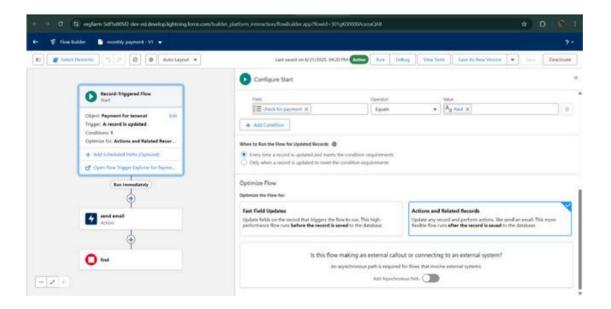
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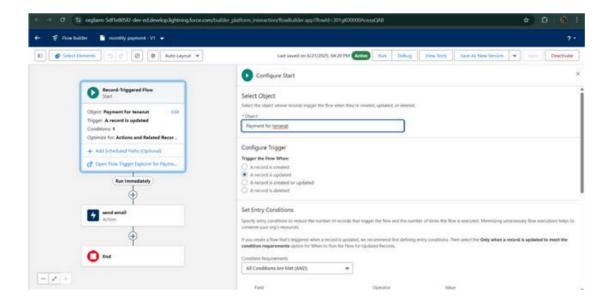
Create an Apex Handler class



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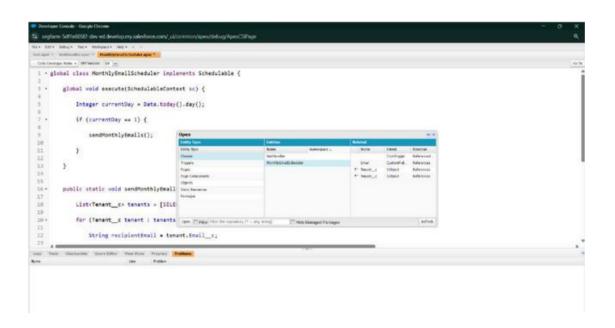
FLOWS



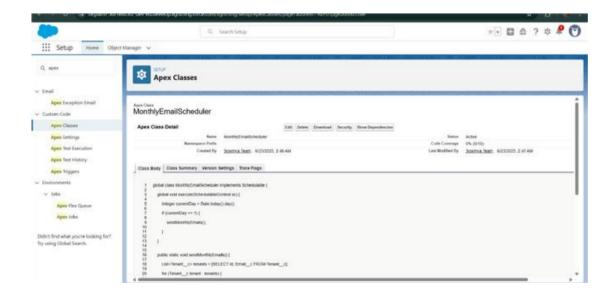


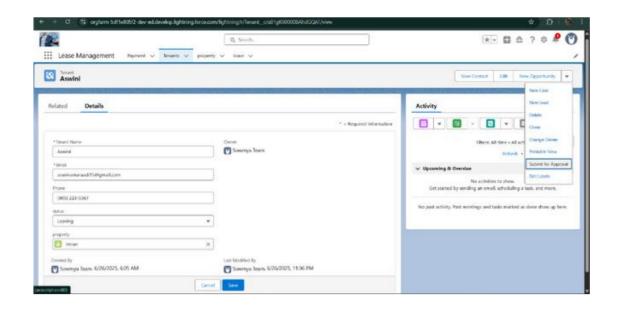
• Schedule class:

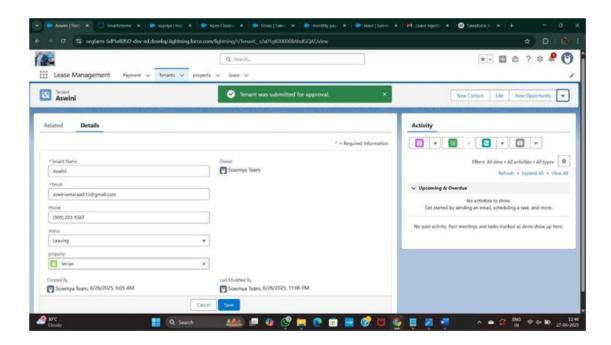
Create an Apex Class

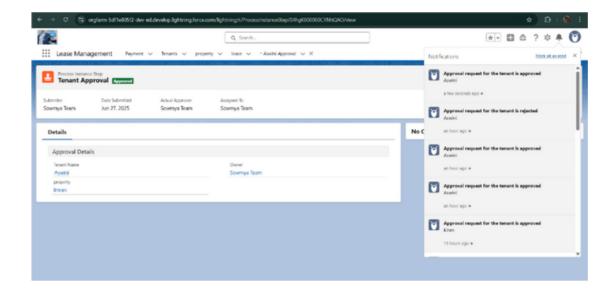


Schedule Apex class





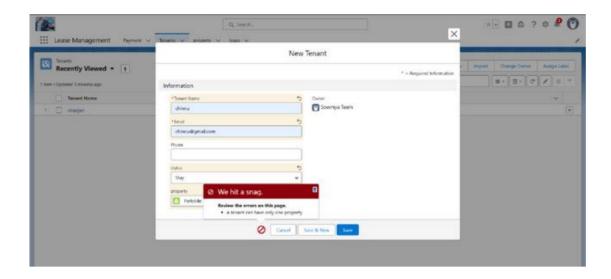




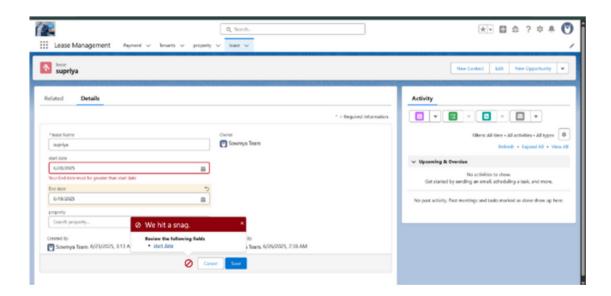
FUNCTIONAL AND PERFORMANCE TESTING

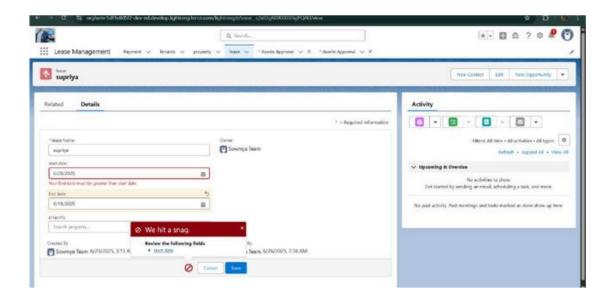
Performance Testing

• Trigger validation by entering duplicate tenant-property records

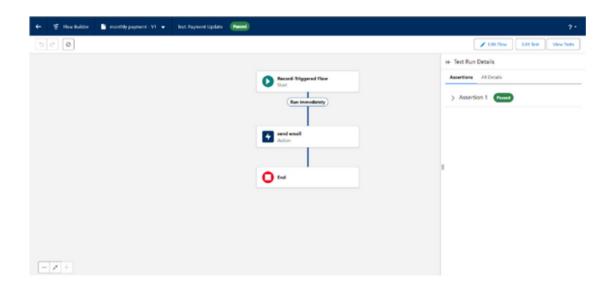


• Validation Rule checking

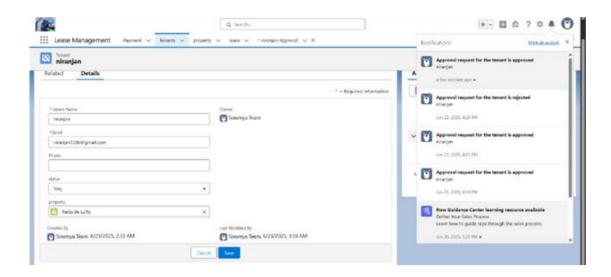


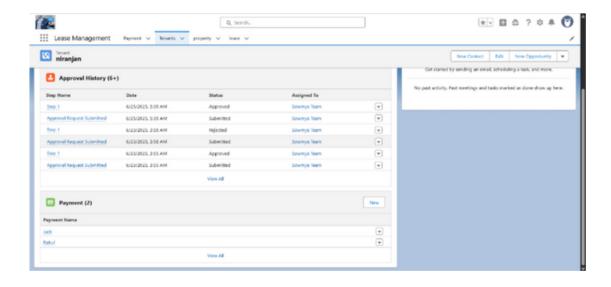


• Test flows on payment update



• Approval process validated through email alerts and status updates

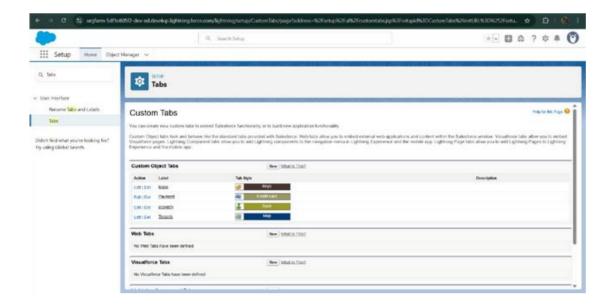




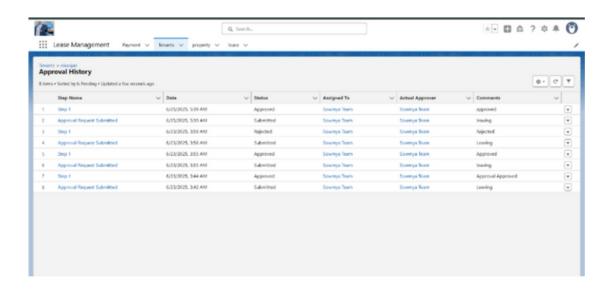
RESULTS

Output Screenshots

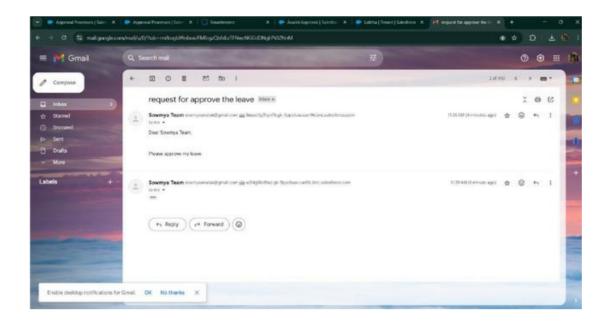
• Tabs for Property, Tenant, Lease, Payment



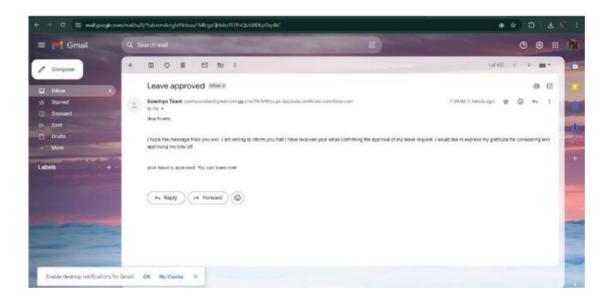
Email alerts



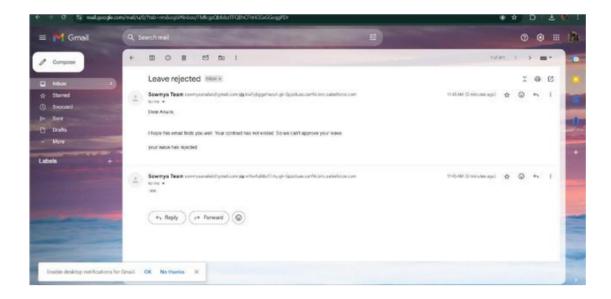
Request for approve the leave



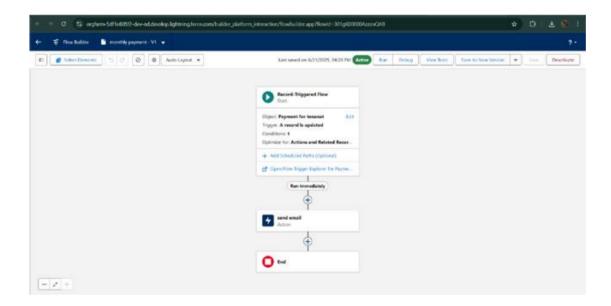
Leave approved



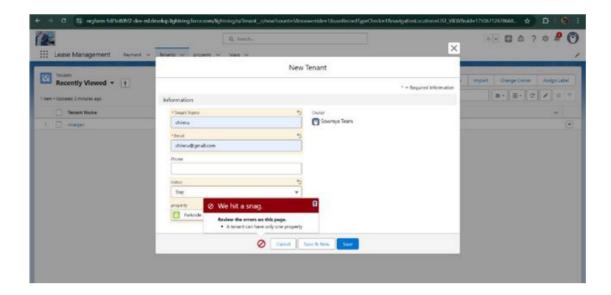
• Leave rejected



• Flow runs



• Trigger error messages



• Approval process notifications



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<</pre>
Tenant__c> newlist)
{ Set<Id>
existingPropertylds
= 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});
}
  }
}
```