LEASE MANAGEMENT

College Name: KPR College of Arts Science and Research

College Code: bruaz

TEAM ID: NM2025TMID21504

TEAM MEMBERS:

Team Leader Name: PRASANTH L

Email: 23bai037@kprcas.ac.in

Team Member 1: YUVARAJ R

Email: 23bai060@kprcas.ac.in

Team Member 2: JOSHNA ASHIKA M

Email: 23bai018@kprcas.ac.in

Team Member 3: JOVITA J

Email: 23bai019@kprcas.ac.in

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.



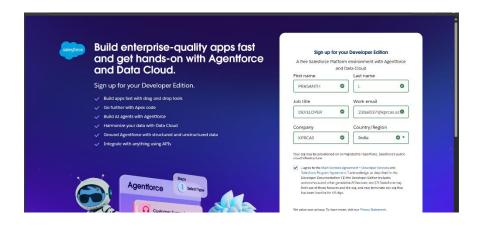
1.2 Purpose

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.

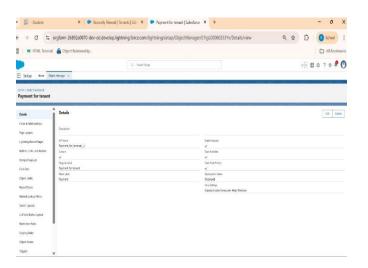
DEVELOPMENT PHASE

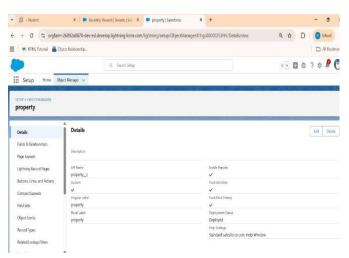
Creating Developer Account:

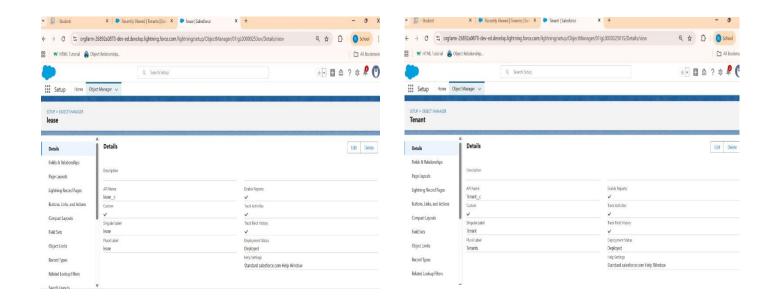
By using this URL - https://www.salesforce.com/form/developer-signup/?d=pb



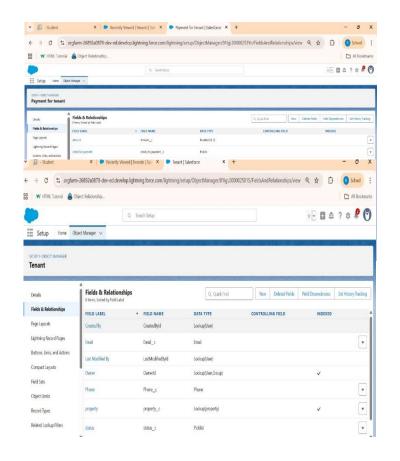
Created objects: Property, Tenant, Lease, Payment

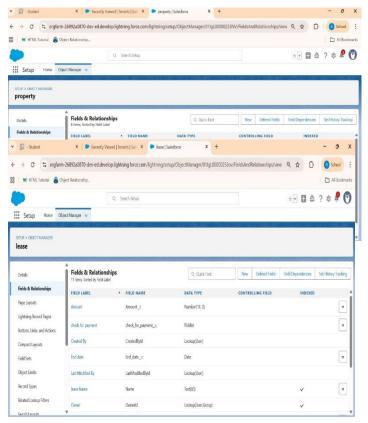




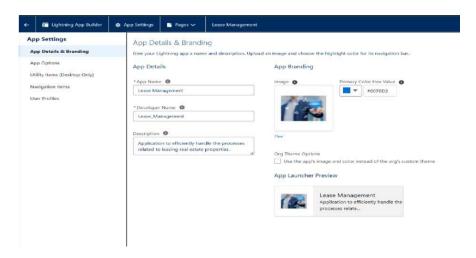


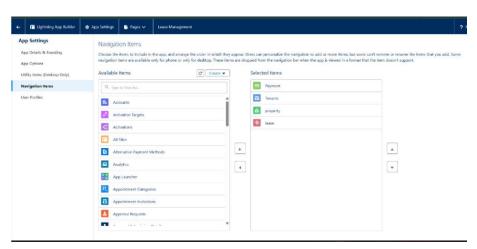
Configured fields and relationships

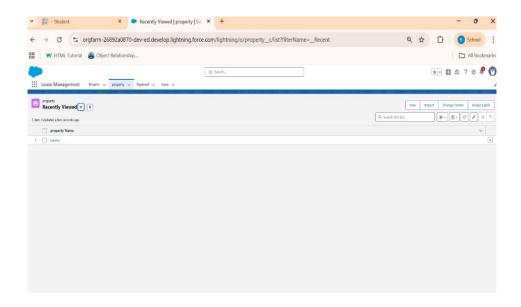




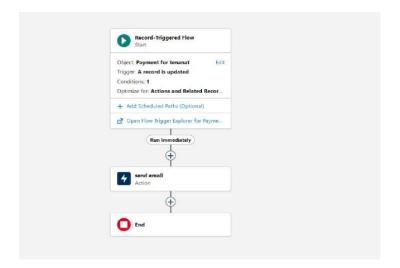
> Developed Lightning App with relevant tabs



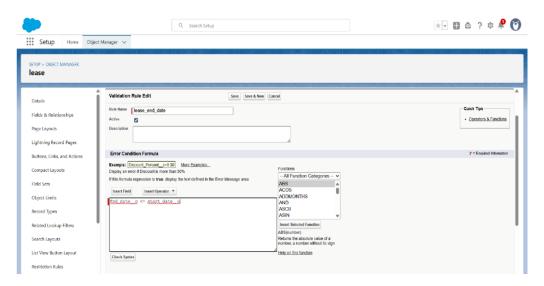




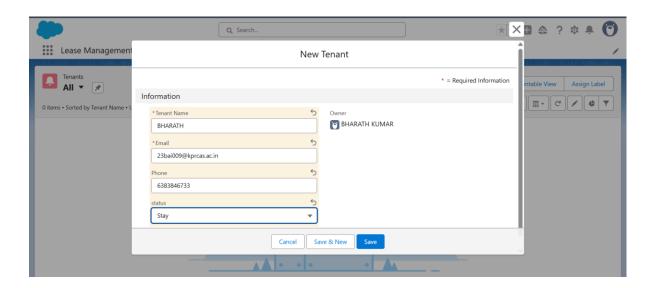
> Implemented Flows for monthly rent and payment success



> To create a validation rule to a Lease Object



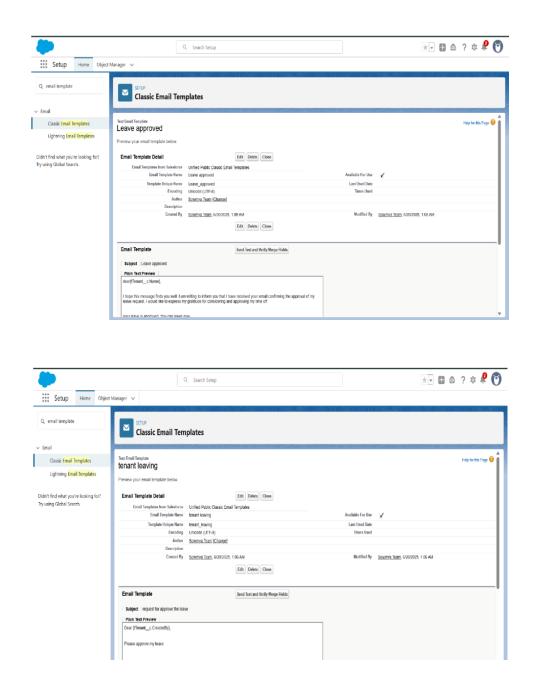
➤ Added Apex trigger to restrict multiple tenants per property

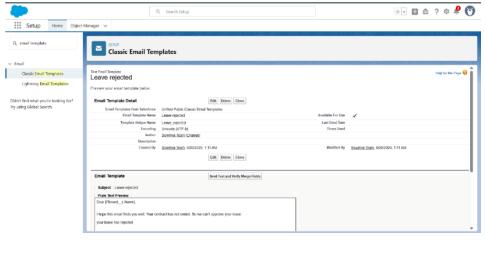


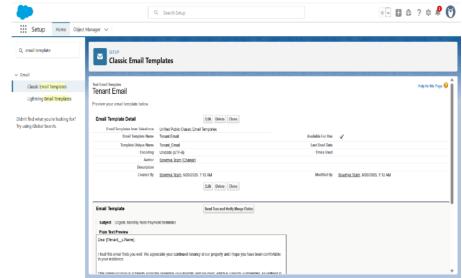
> Scheduled monthly reminder emails using Apex class

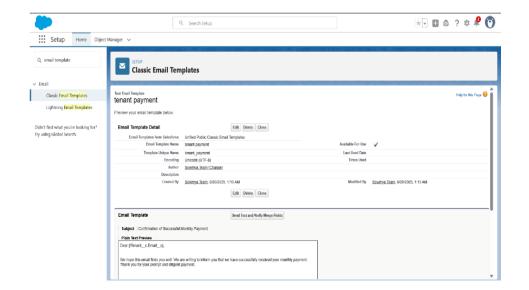
```
| State | Continue | C
```

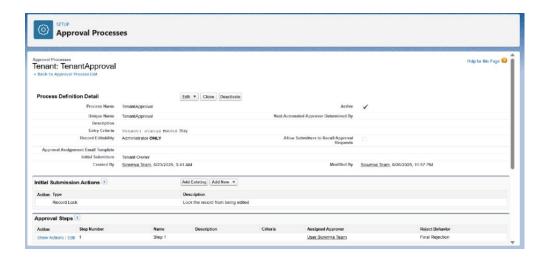
> Built and tested email templates for leave request, approval, rejection, payment, and reminders





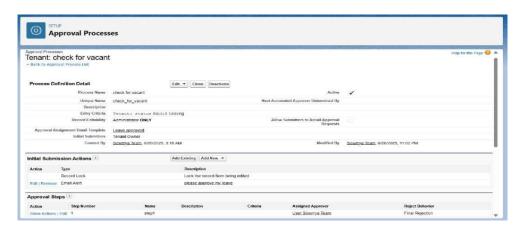


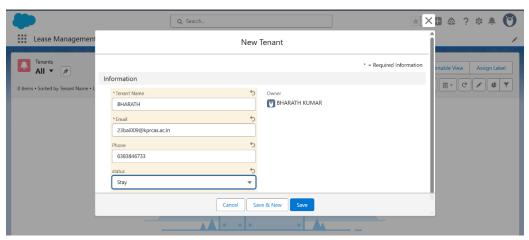




Approval Process creation

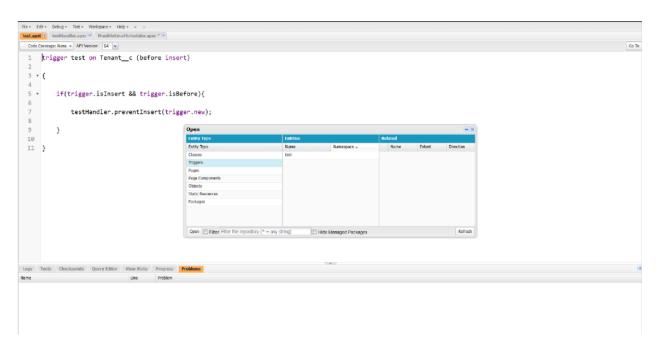
For Check for Vacant:





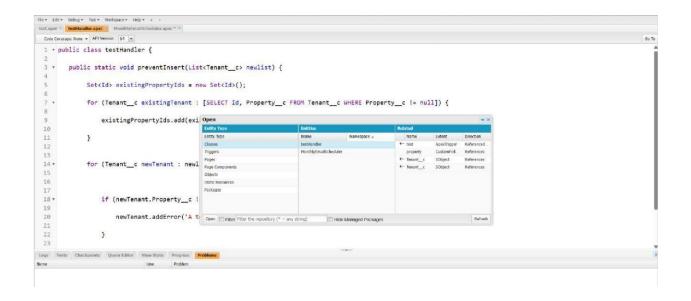
Apex Trigger

Create an Apex Trigger

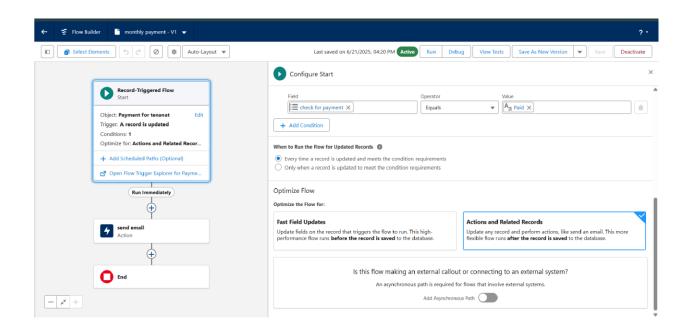


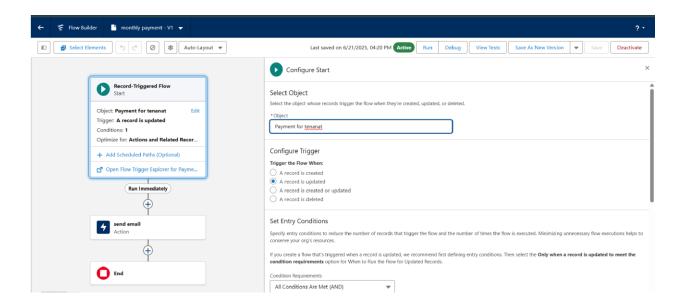


Create an Apex Handler class



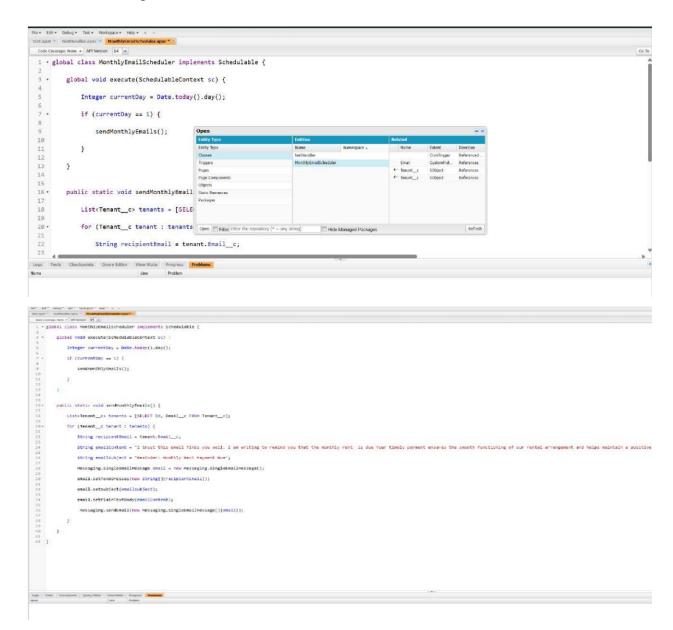
FLOWS



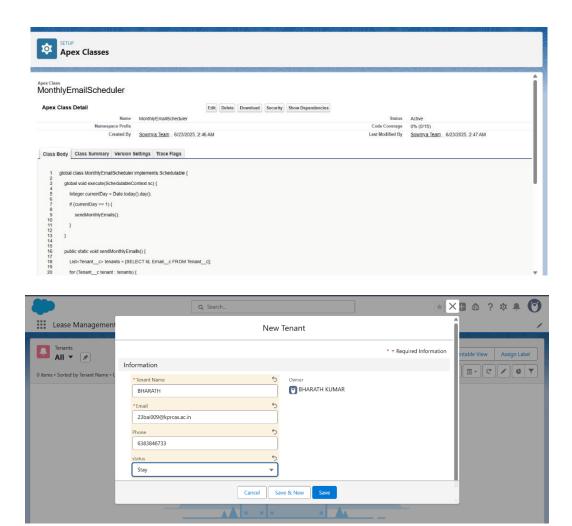


> Schedule class:

Create an Apex Class



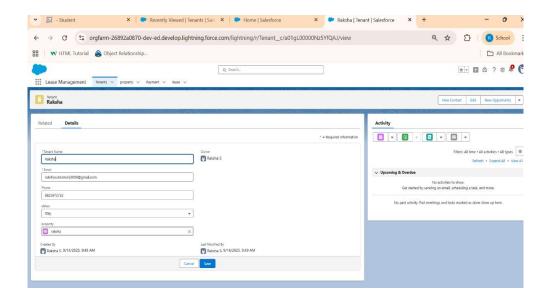
Schedule Apex class



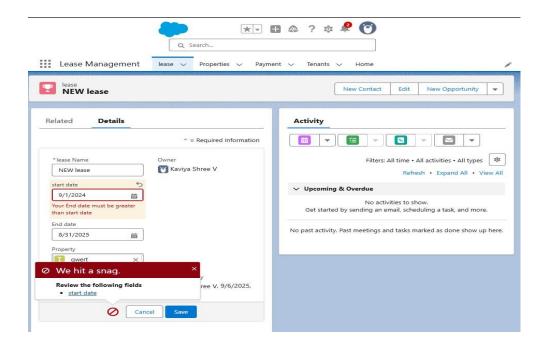
FUNCTIONAL AND PERFORMANCE TESTING

Performance Testing

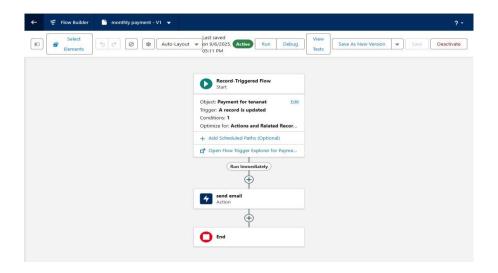
> Trigger validation by entering duplicate tenant-property records

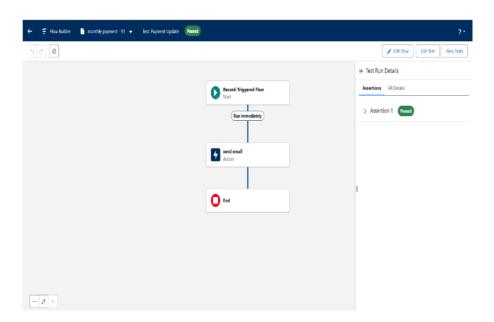


➤ Validation Rule checking

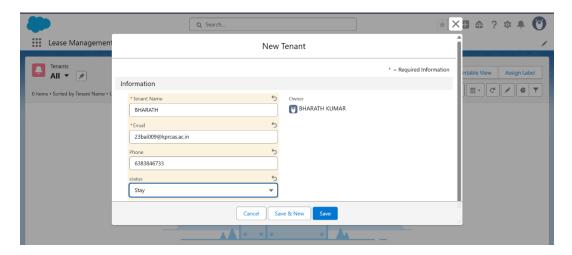


> Test flows on payment update





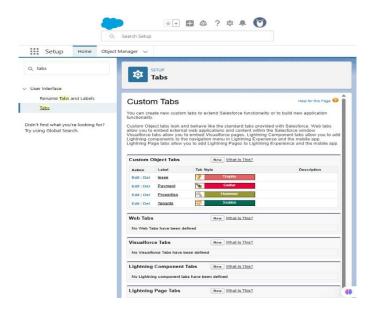
> Approval process validated through email alerts and status updates



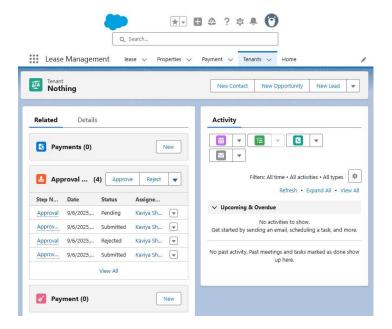
RESULTS

Output Screenshots

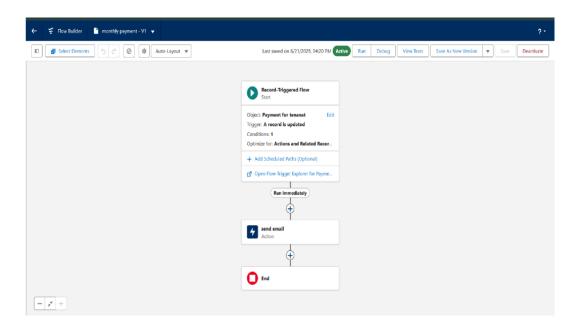
> Tabs for Property, Tenant, Lease, Payment



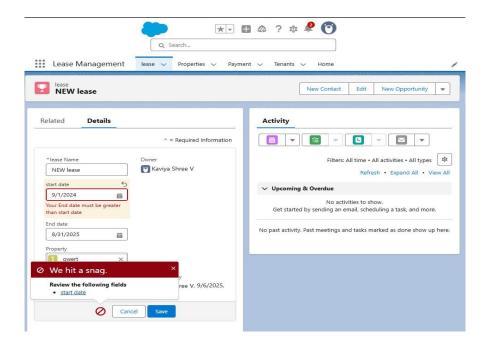
> Email alerts



> Flow runs



> Trigger error messages



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

```
<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<
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:
```

```
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});
}
```