

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.



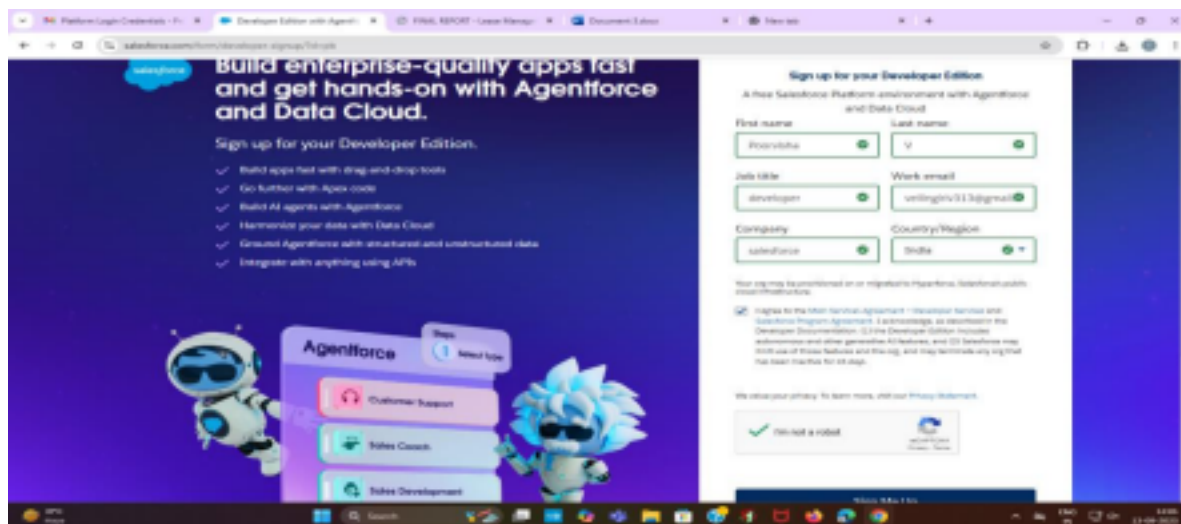
1.2 Purpose

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.

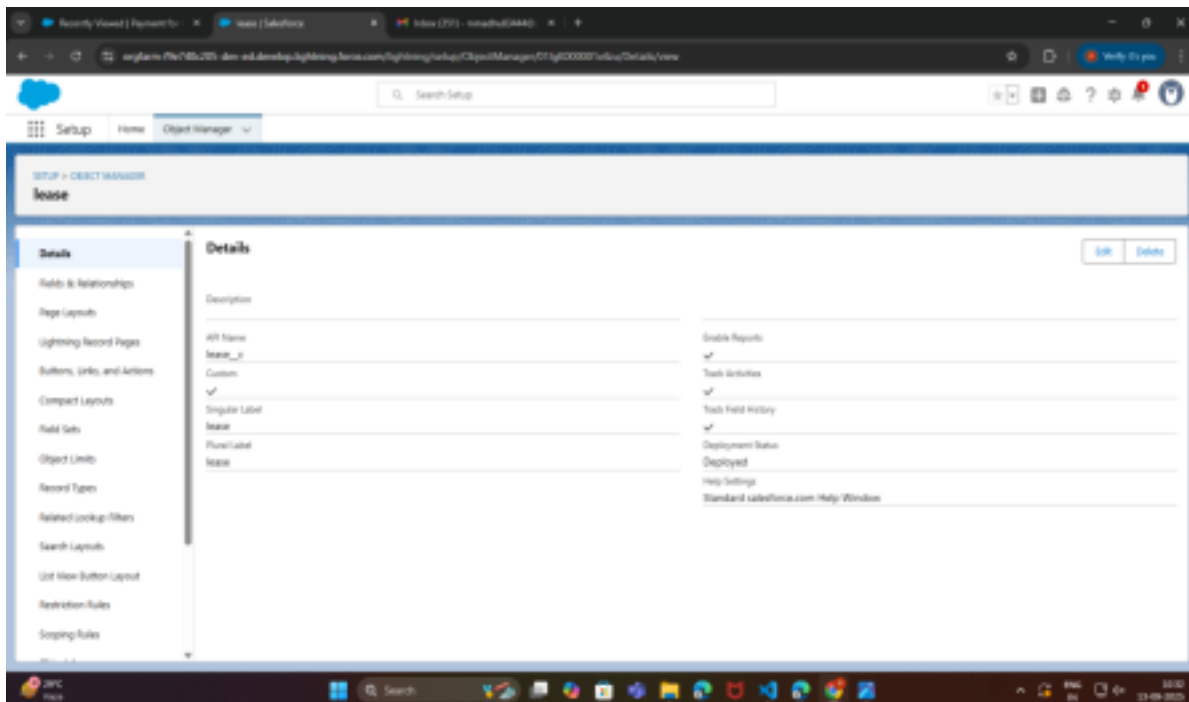
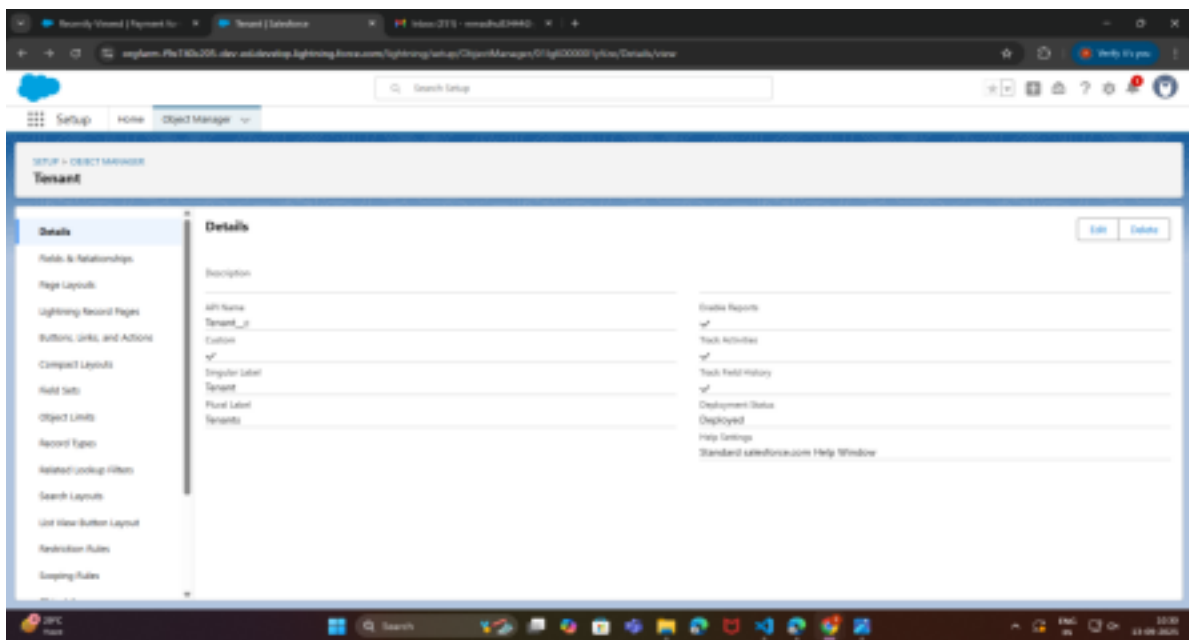
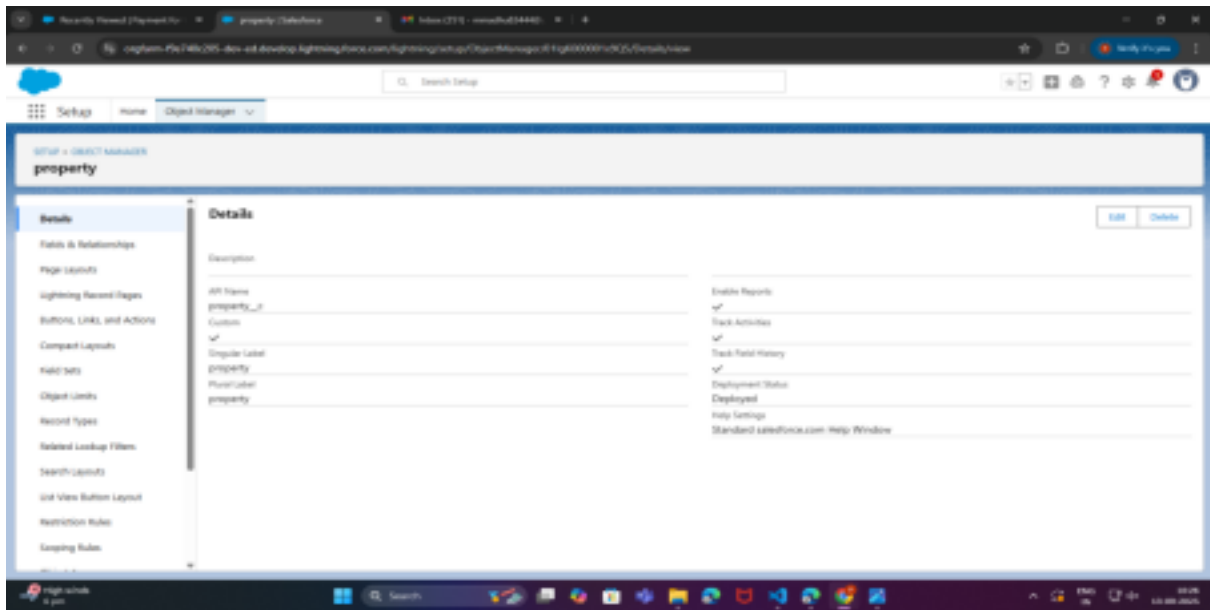
DEVELOPMENT PHASE

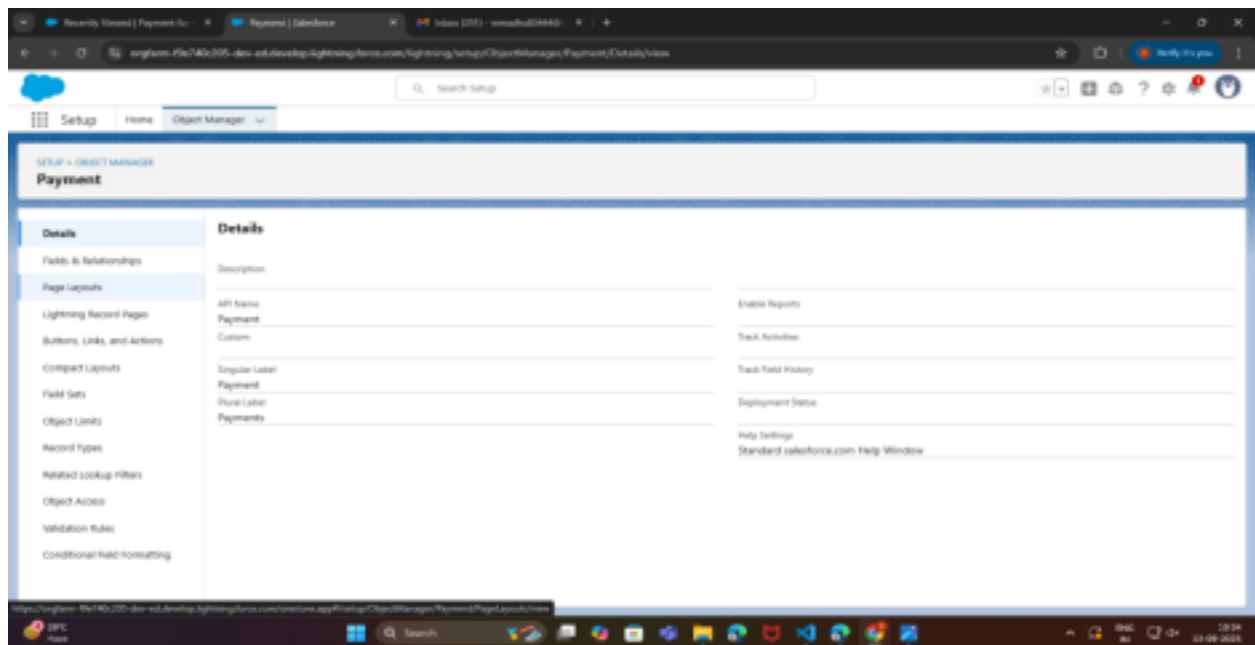
Creating Developer Account: By using this URL -

<https://www.salesforce.com/form/developer-signup/?d=pb>

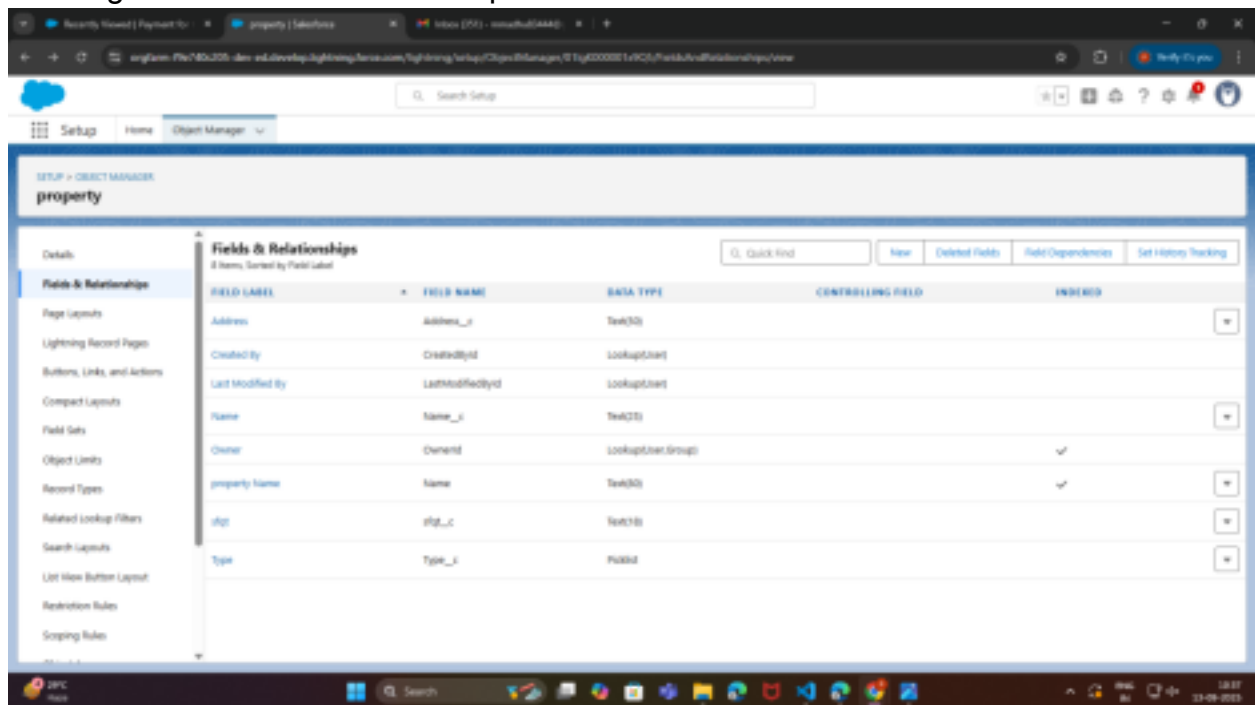


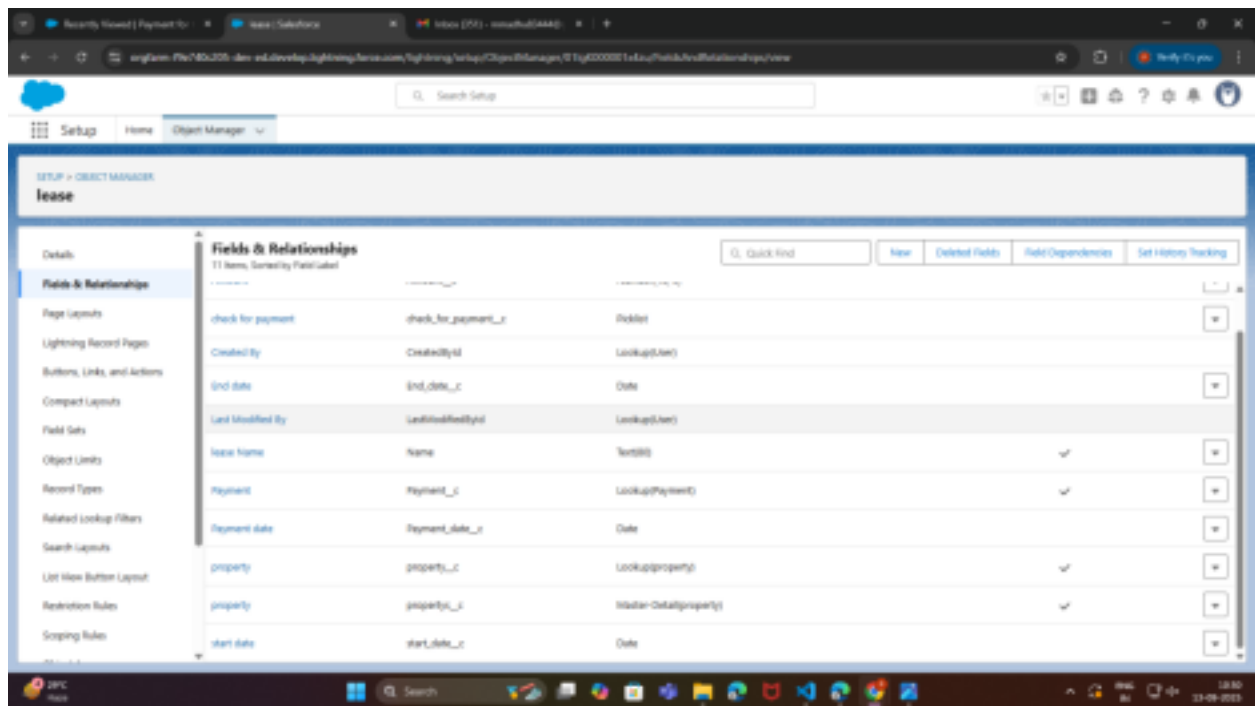
- Created objects: Property, Tenant, Lease, Payment



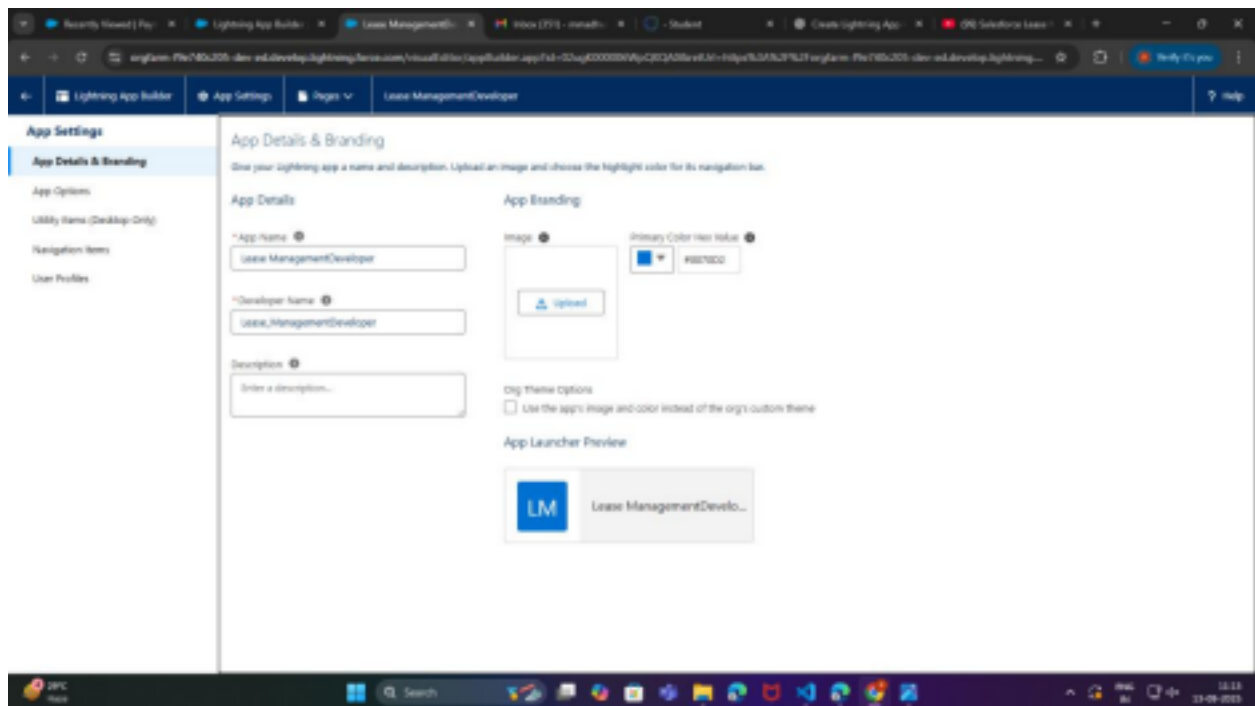


- Configured fields and relationships





- Developed Lightning App with relevant tabs



Lightning App Builder | App Settings | Pages | Lease Management/Developer

App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)
- Navigation Items**
- User Profiles

Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Search: Type to filter...

- Accounts
- Activation Targets
- Activations
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Approval Submission Details

Selected Items

- Payment for tenant
- tenants
- property
- lease
- tenant Approval

Lightning App Builder | App Settings | Pages | Lease Management/Developer

App Settings

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User Profiles

Choose the user profiles that can access this app.

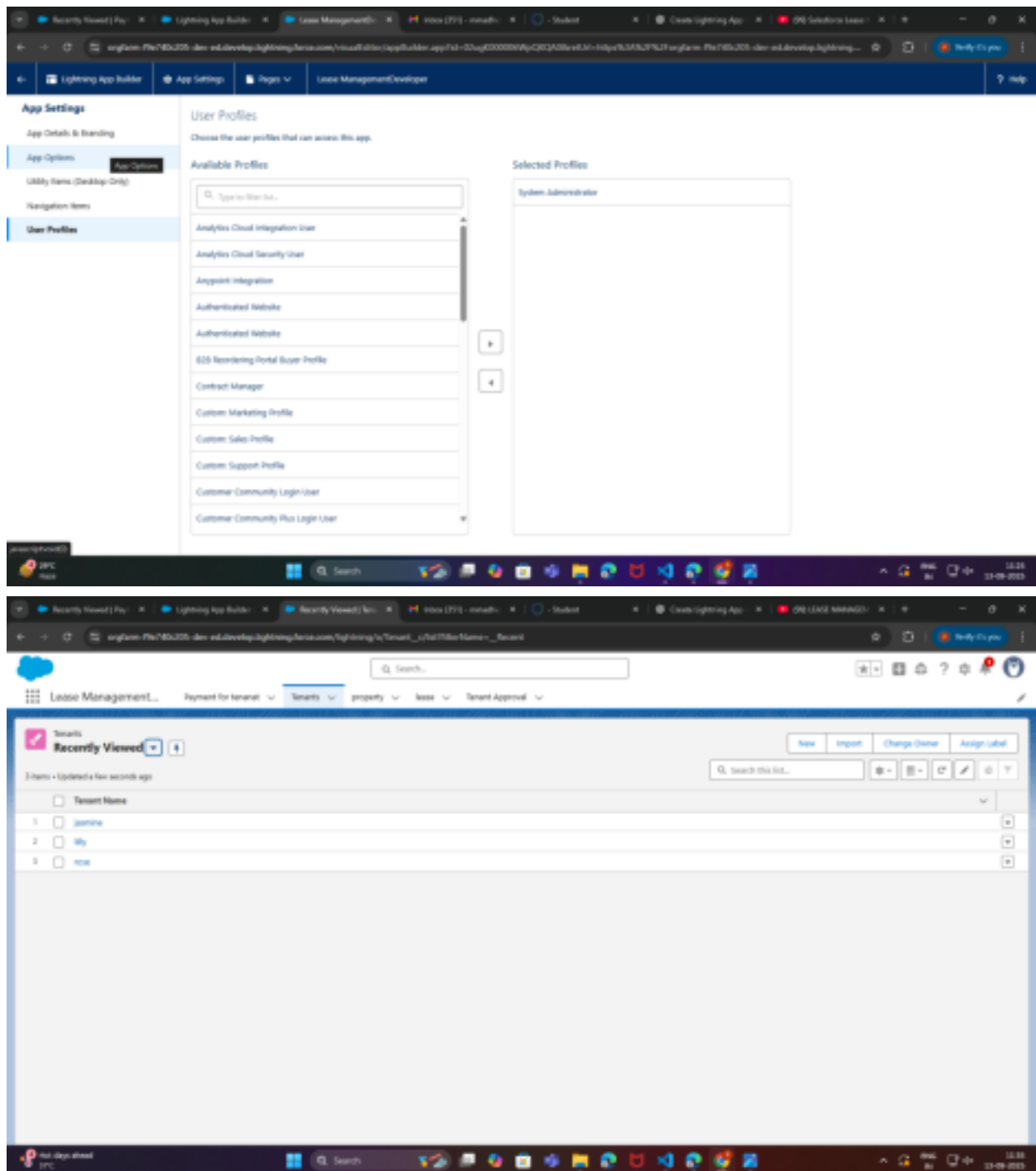
Available Profiles

Search: Type to filter...

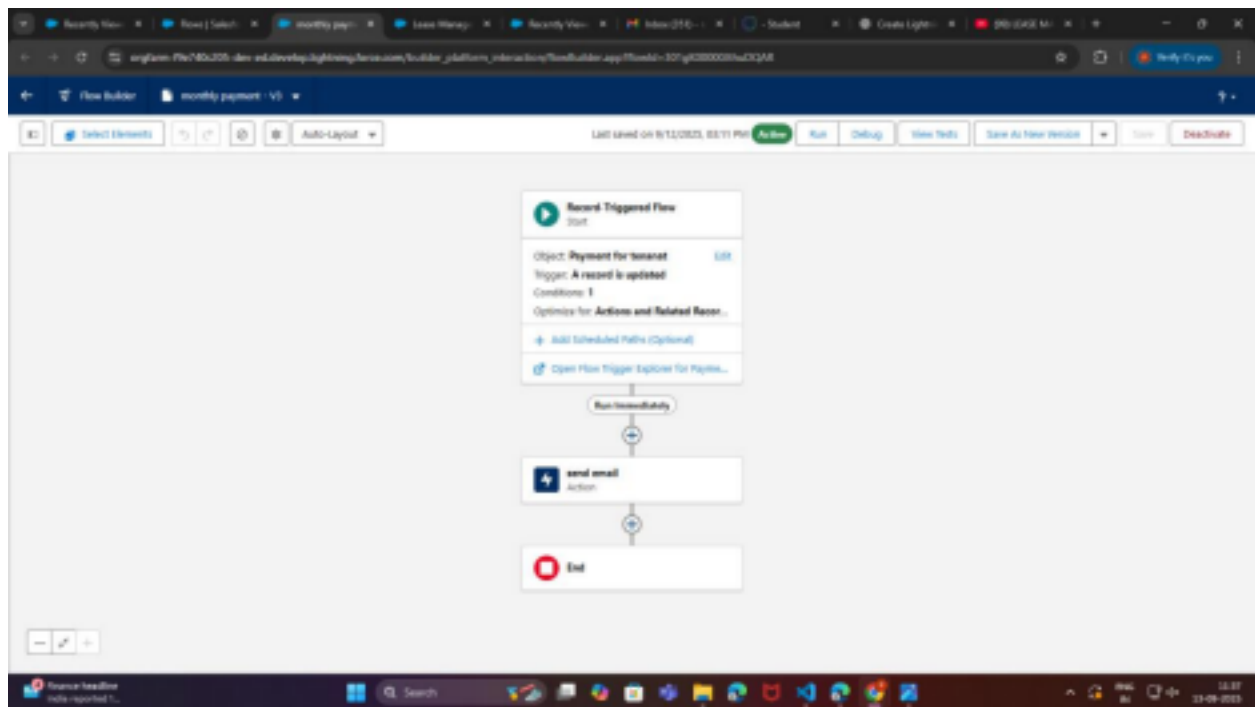
- Analytics Cloud Integration User
- Analytics Cloud Security User
- Anypoint Integration
- Authenticated RoleUser
- Authenticated RoleUser
- SSO Recording Portal Buyer Profile
- Contract Manager
- Custom Marketing Profile
- Custom Sales Profile
- Custom Support Profile
- Customer Community Login User
- Customer Community Plus Login User

Selected Profiles

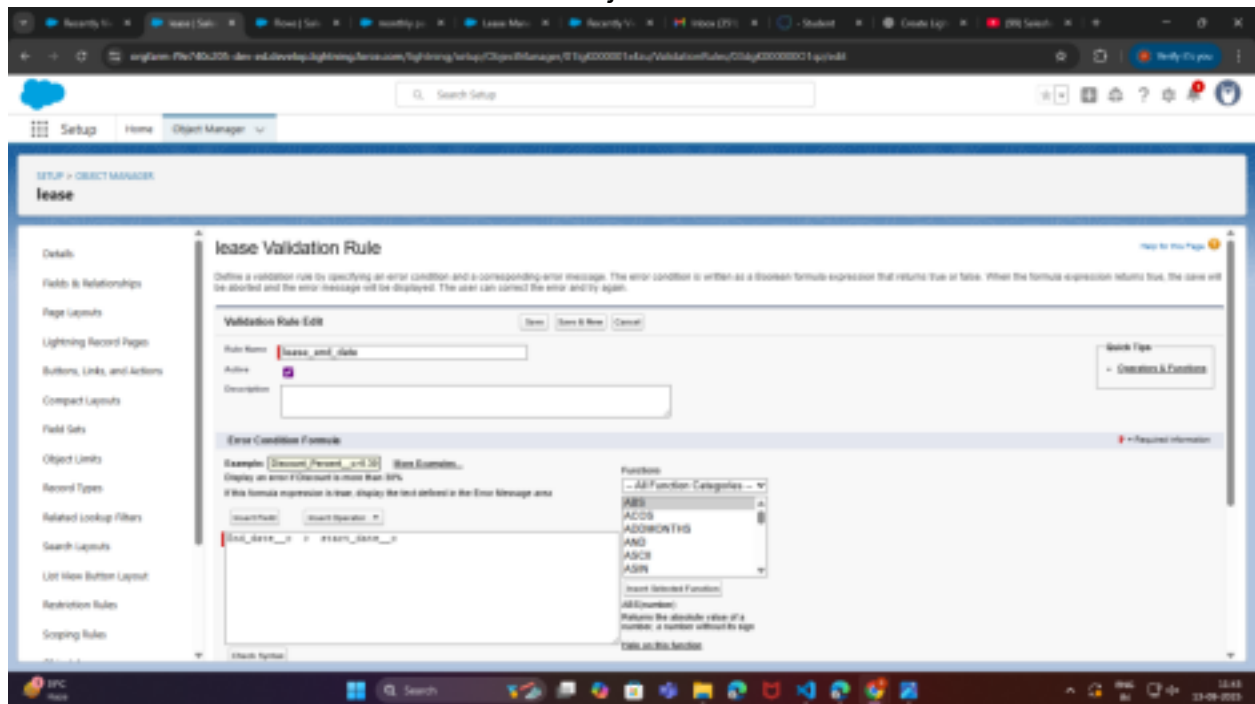
- System Administrator



- 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



- 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



- 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



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:

```
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 existingPropertyIds
= new Set()
```

```

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'); }

}

}

}

```

MonthlyEmailScheduler.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 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}); }

}

```


}