# LEASE MANAGEMENT

**College Name : SRI VASAVI COLLEGE (SFW), ERODE.**

**College Code : bru17**

**TEAM ID :** NM2025TMID23297

## TEAM MEMBERS :


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  **Email Id : m.mathankumar6666@gmail.com**

# 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.

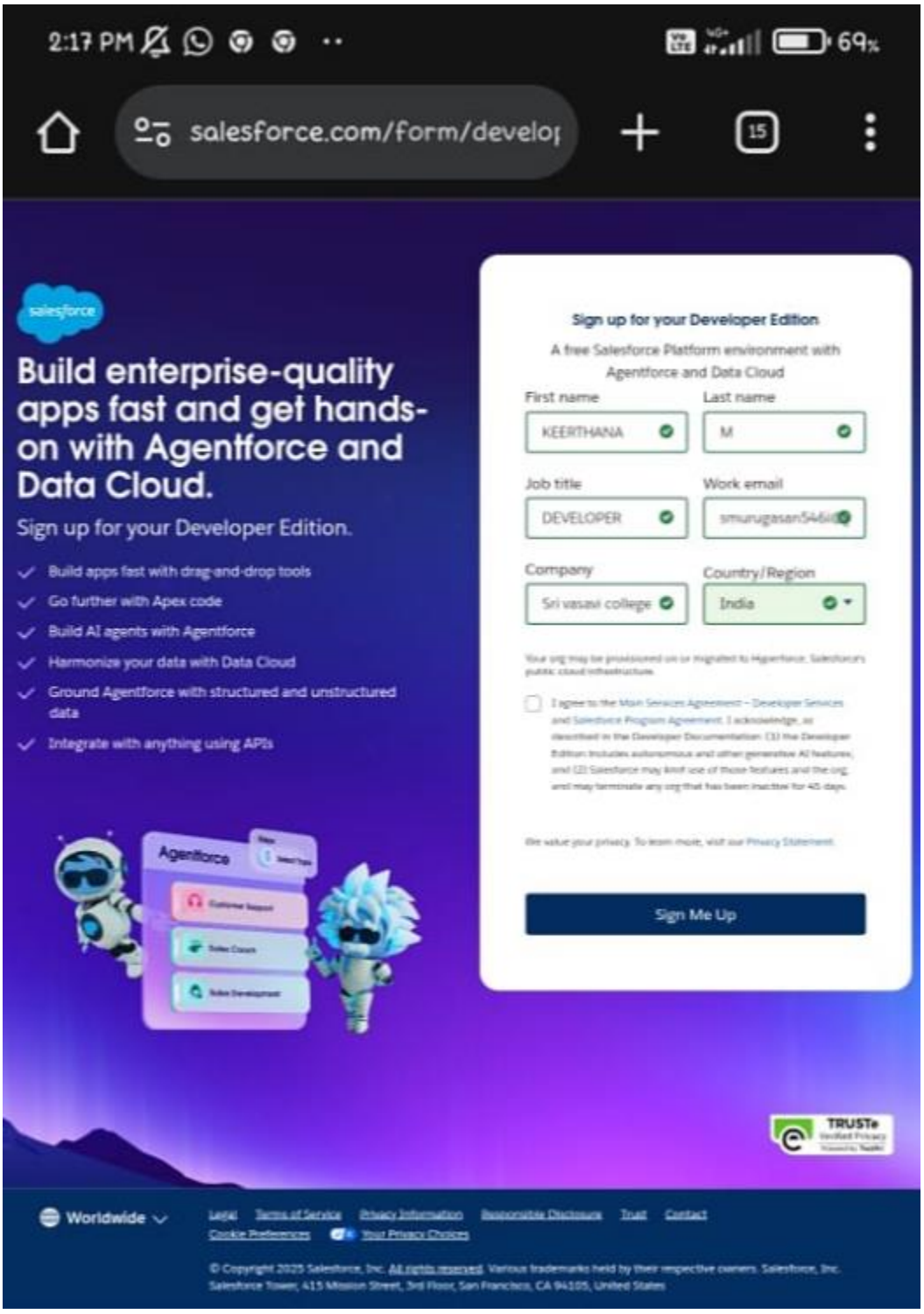
## 1.2 Purpose

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.

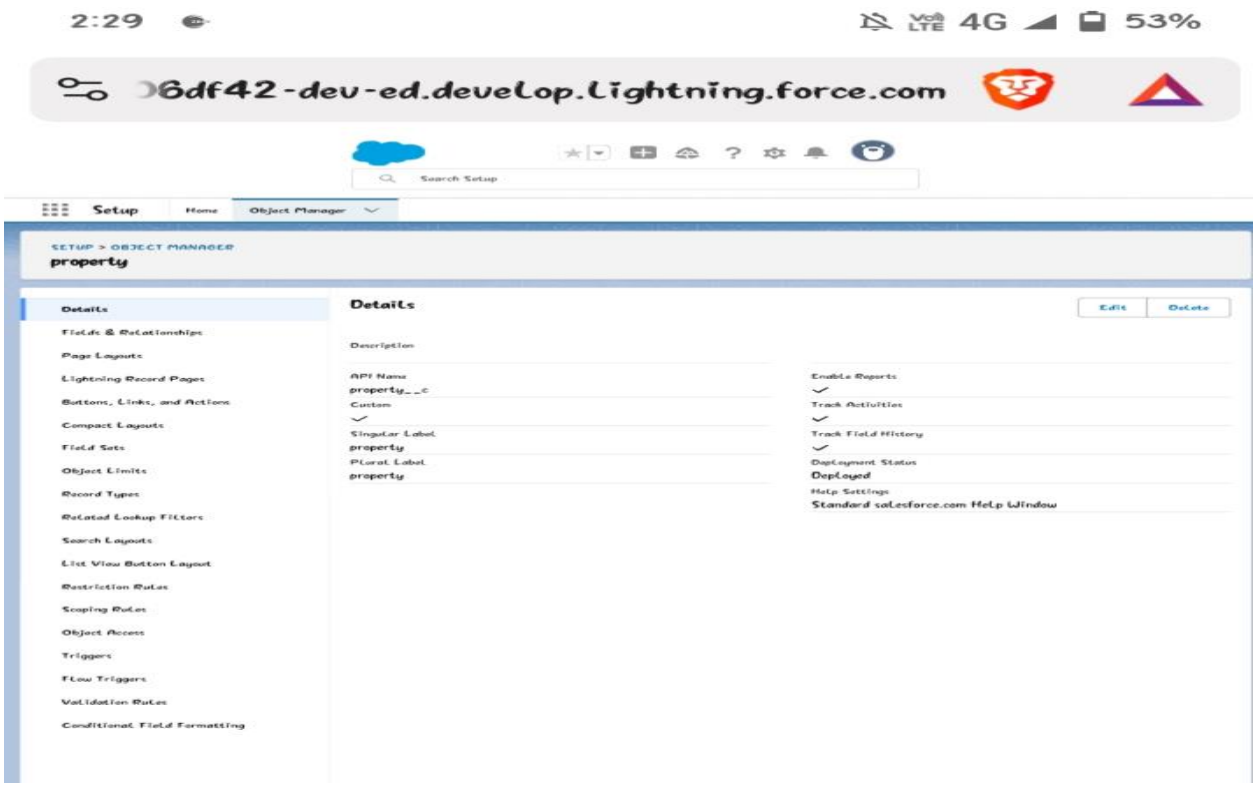
# DEVELOPMENT PHASE

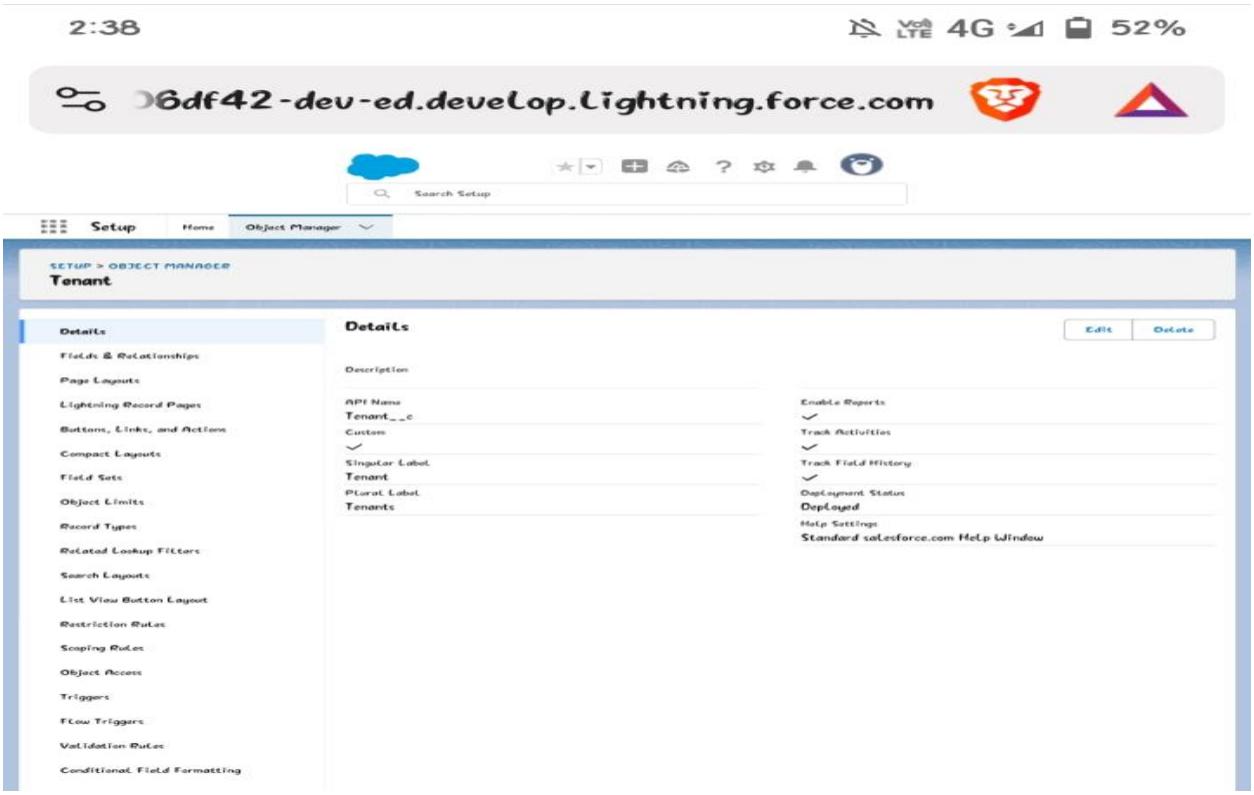
## Creating Developer Account:

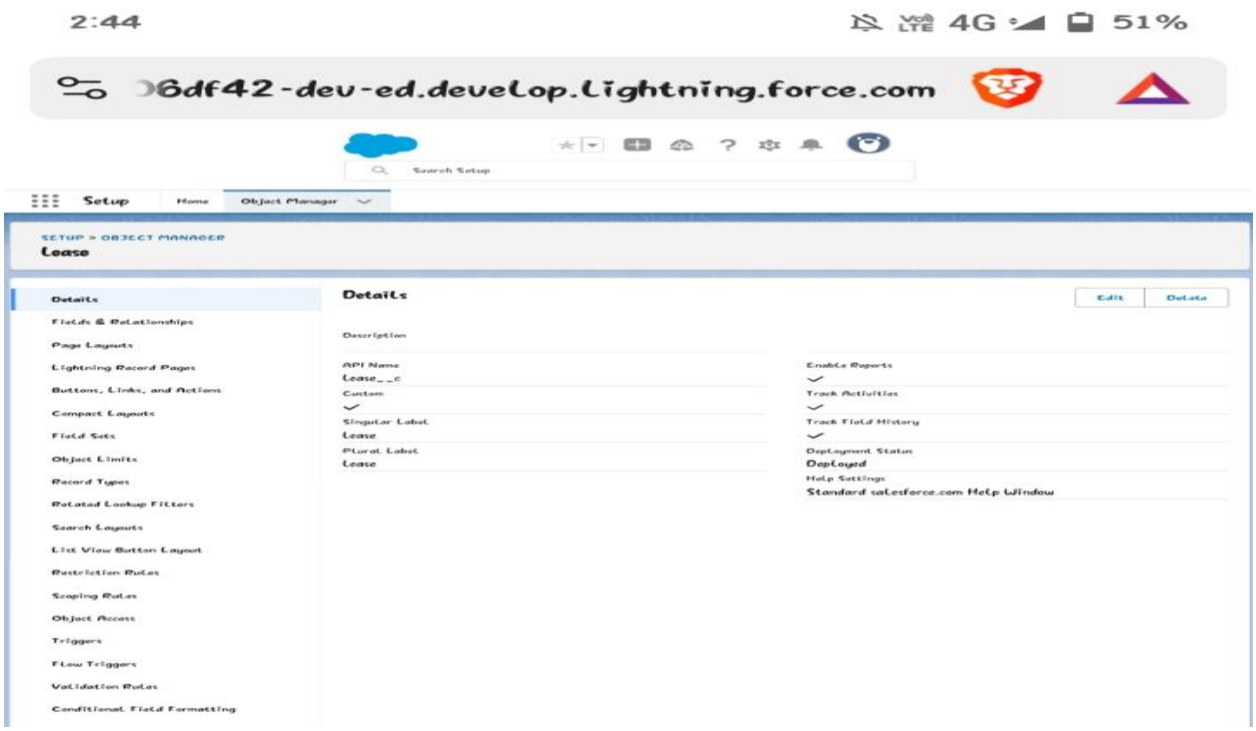
By using this URL: https://www.salesforce.com



- **Created objects: Property, Tenant, Lease, Payment**

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Home
Object Manager
SETUP > OBJECT MANAGER
Lease
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Scoping Rules
Object Access
Triggers
Flow Triggers
Validation Rules
Conditional Field Formatting
Details
Edit
Delete
Description
API Name
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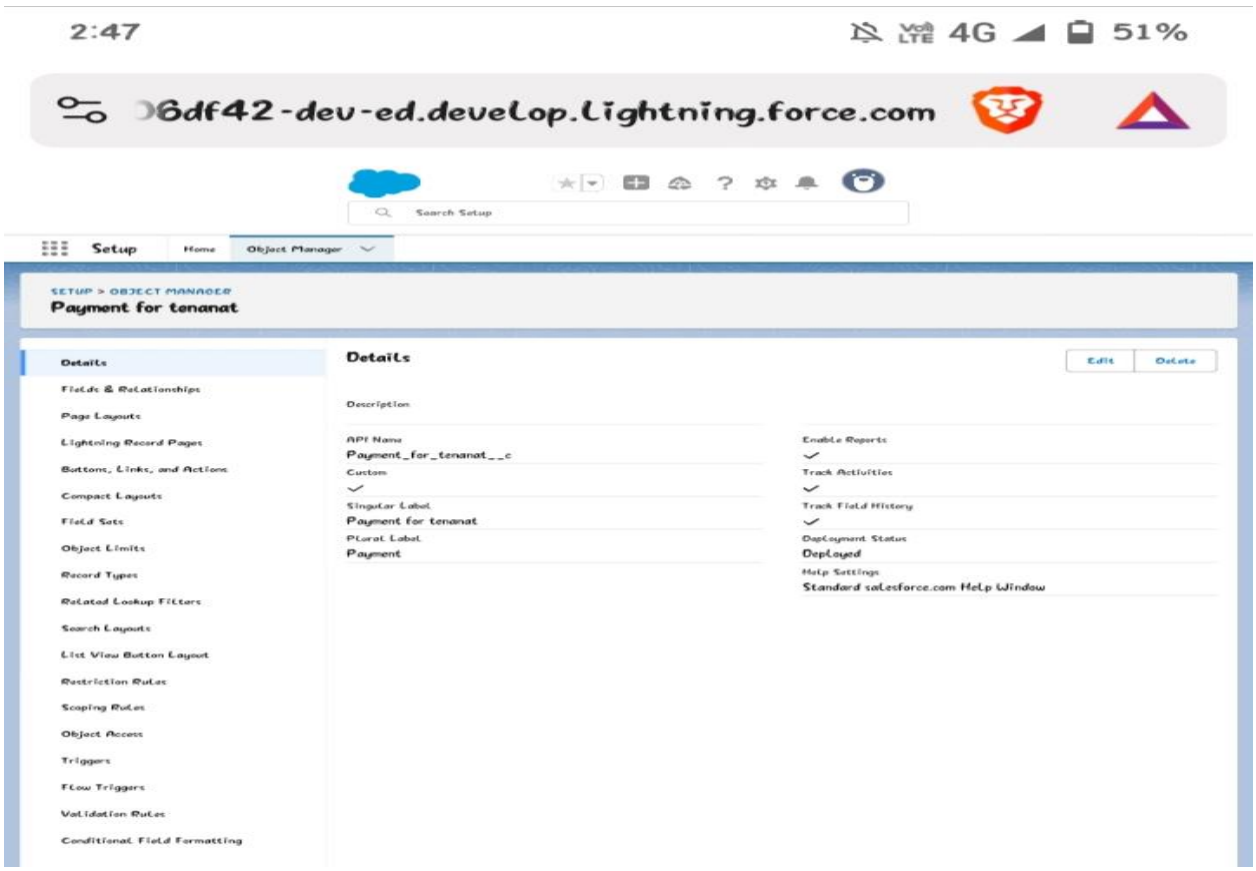
Lease
Plural Label
Lease
Enable Reports
Track Activities
Track Field History
Deployment Status
Deployed
Help Setting
Standard salesforce.com Help Window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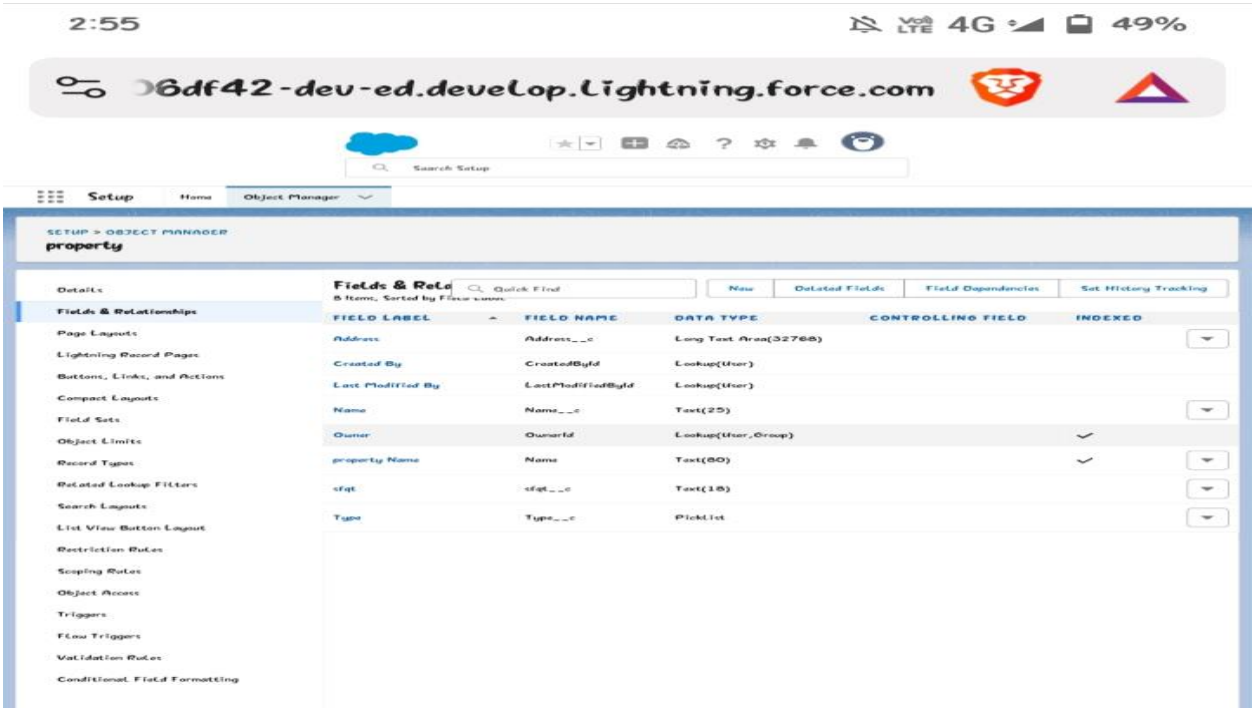
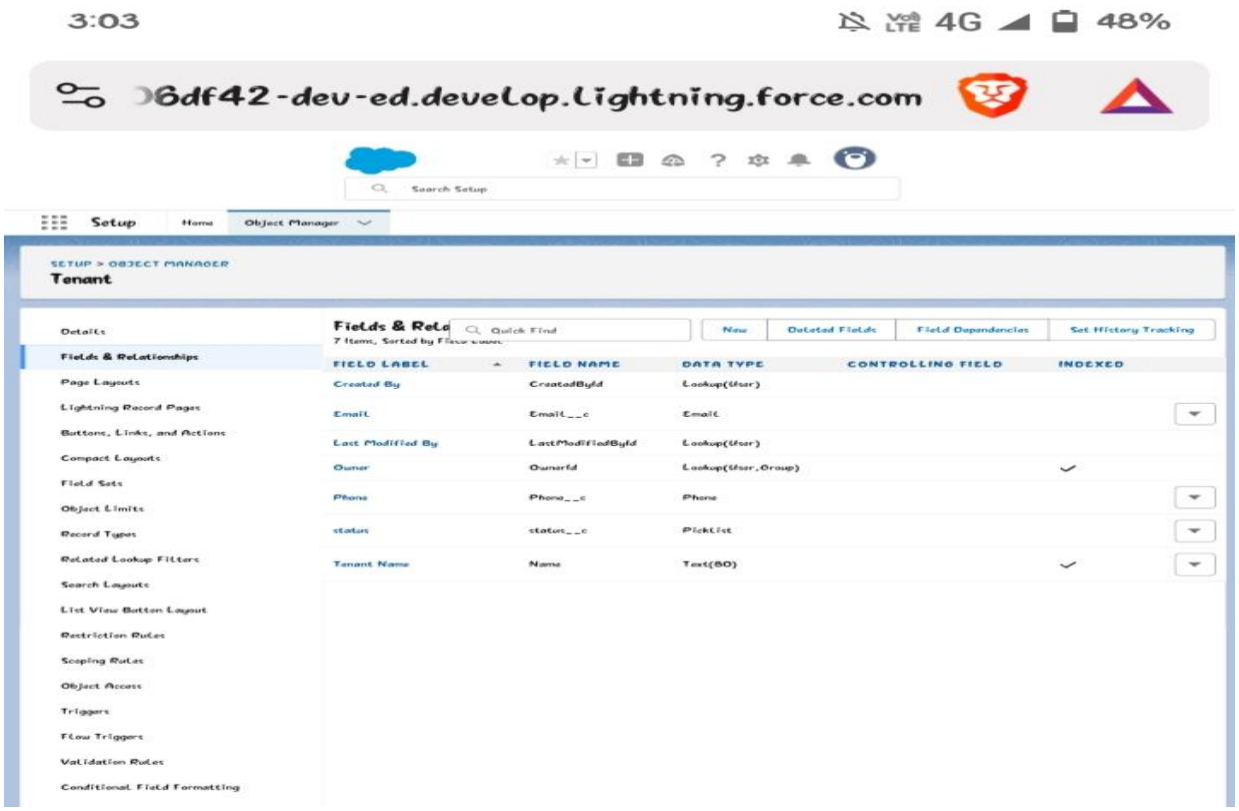
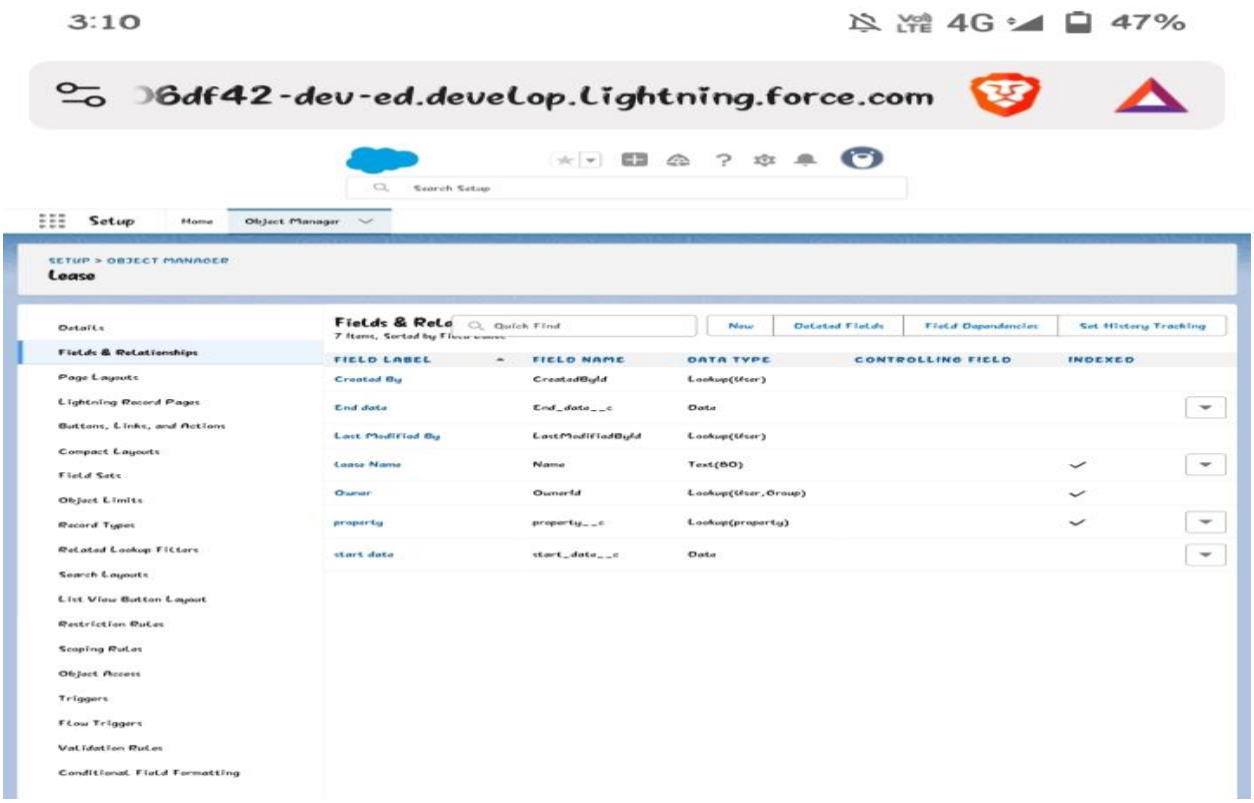
- **Configured fields and relationships**

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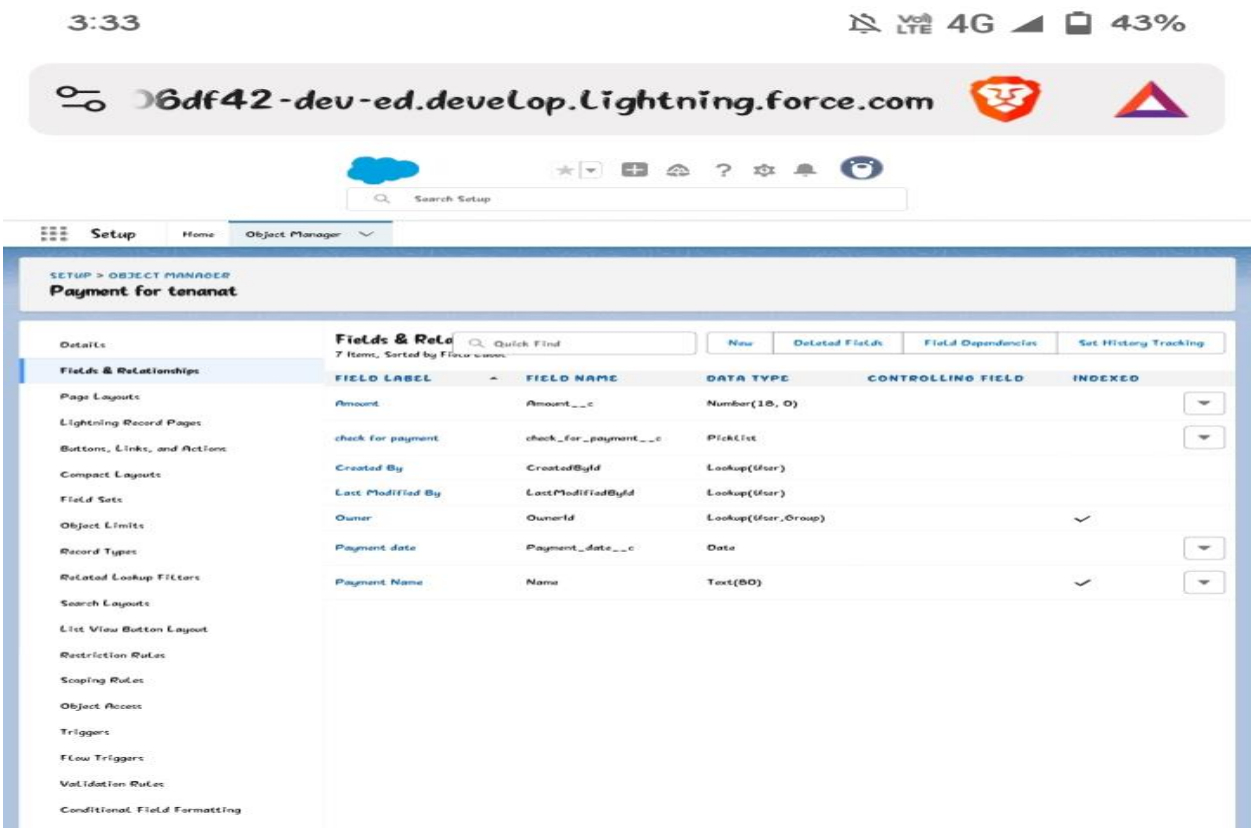
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Created By
CreatedById
Lookup(User)
End data
End_data__c
Date
Last Modified By
LastModifiedById
Lookup(User)
Lease Name
Name
Text(80)
Owner
OwnerId
Lookup(User,Group)
property
property__c
Lookup(property)
start data
start_date__c
Date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New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
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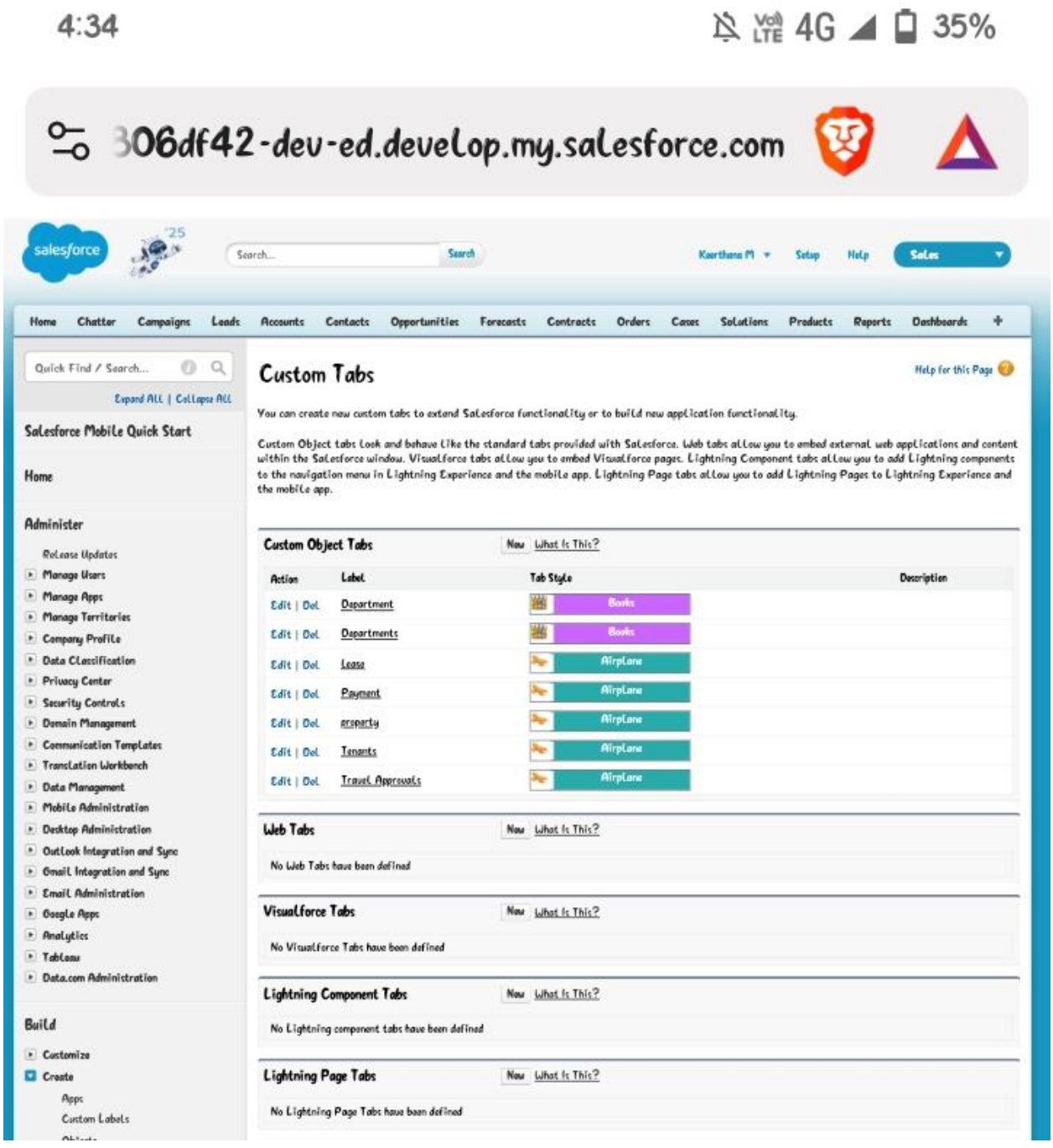
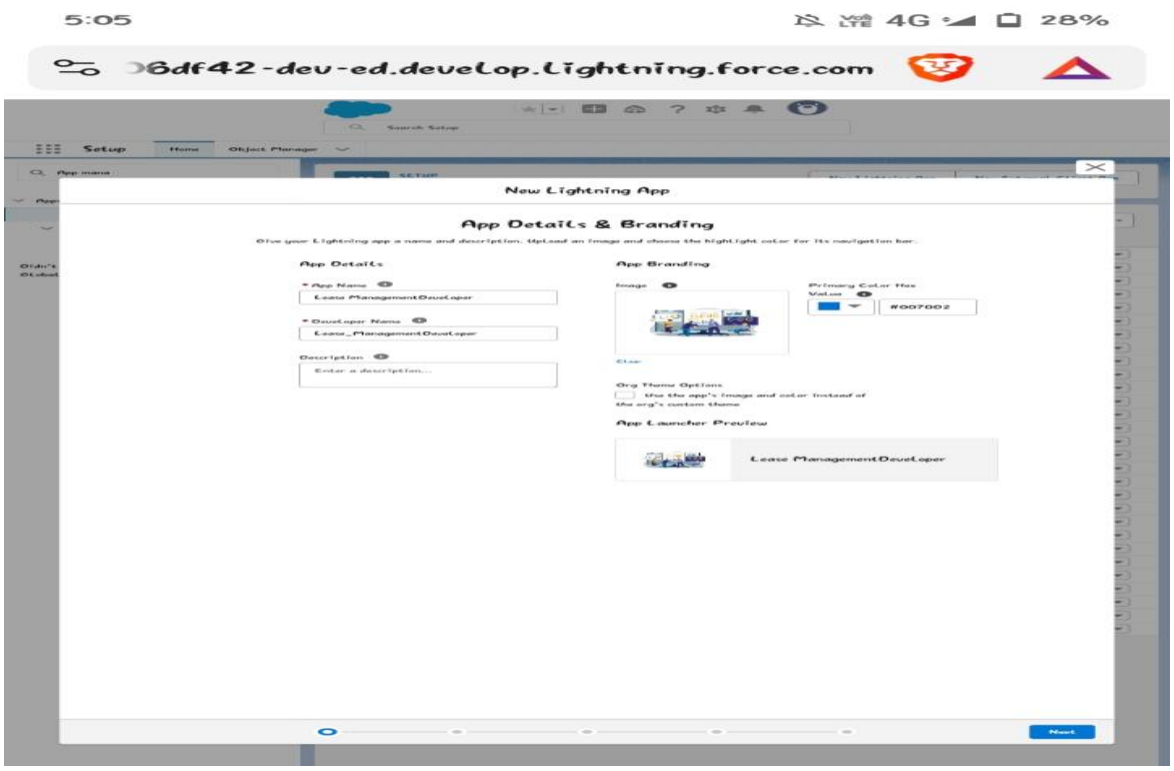
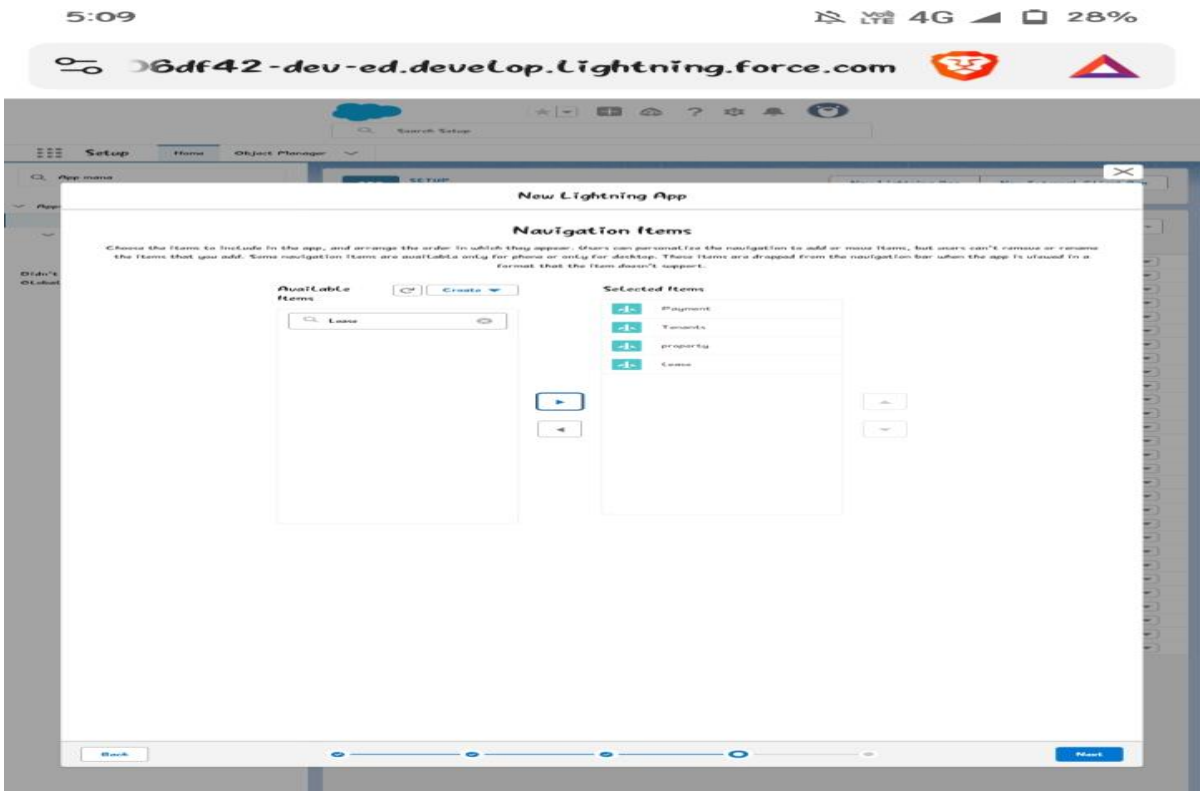
INDEXED
Amount
Amount__c
Number(18, 0)
check for payment
check_for_payment__c
Picklist
Created By
CreatedById
Lookup(User)
Last Modified By
LastModifiedById
Lookup(User)
Owner
OwnerId
Lookup(User,Group)
Payment date
Payment_date__c
Date
Payment Name
Name
Text(80)

## Configuring the Tabs :



- **Developed Lightning App with relevant tabs :**

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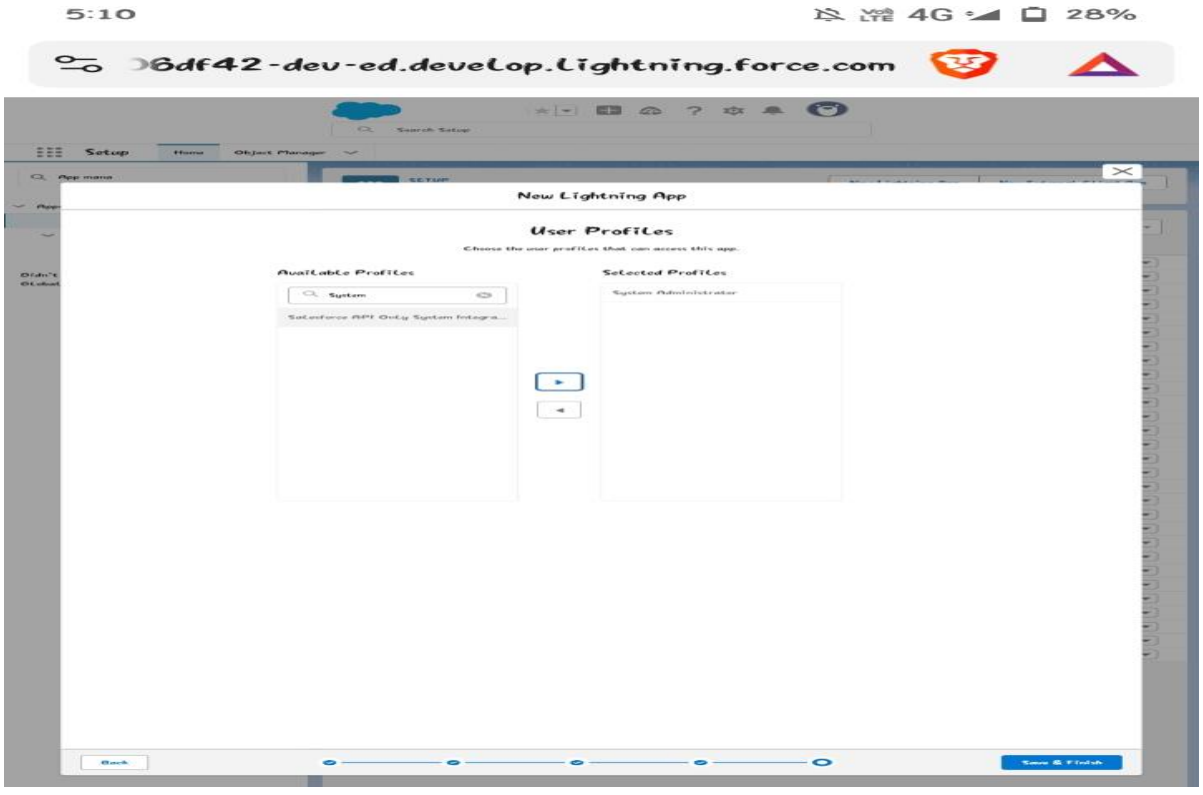
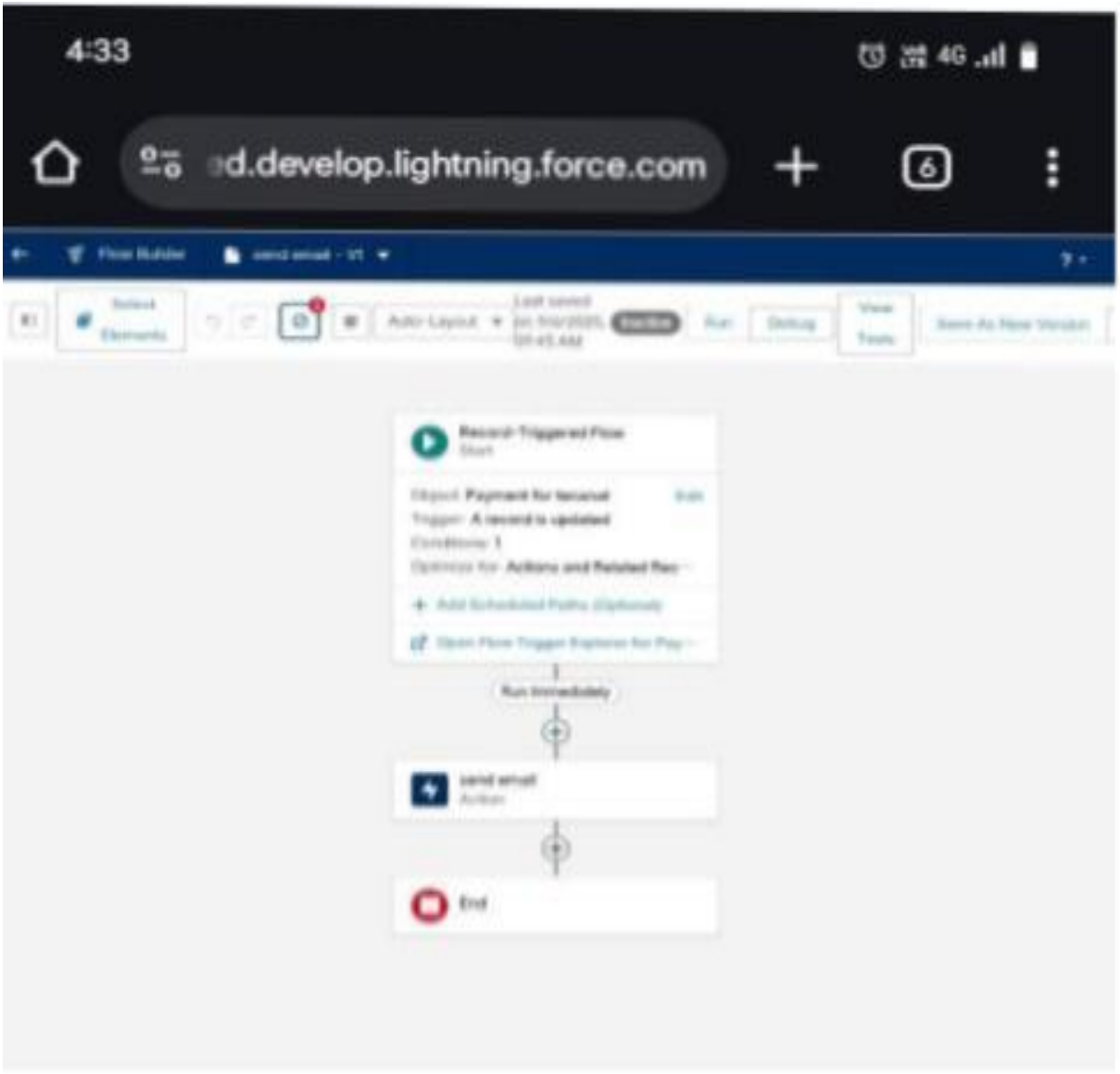
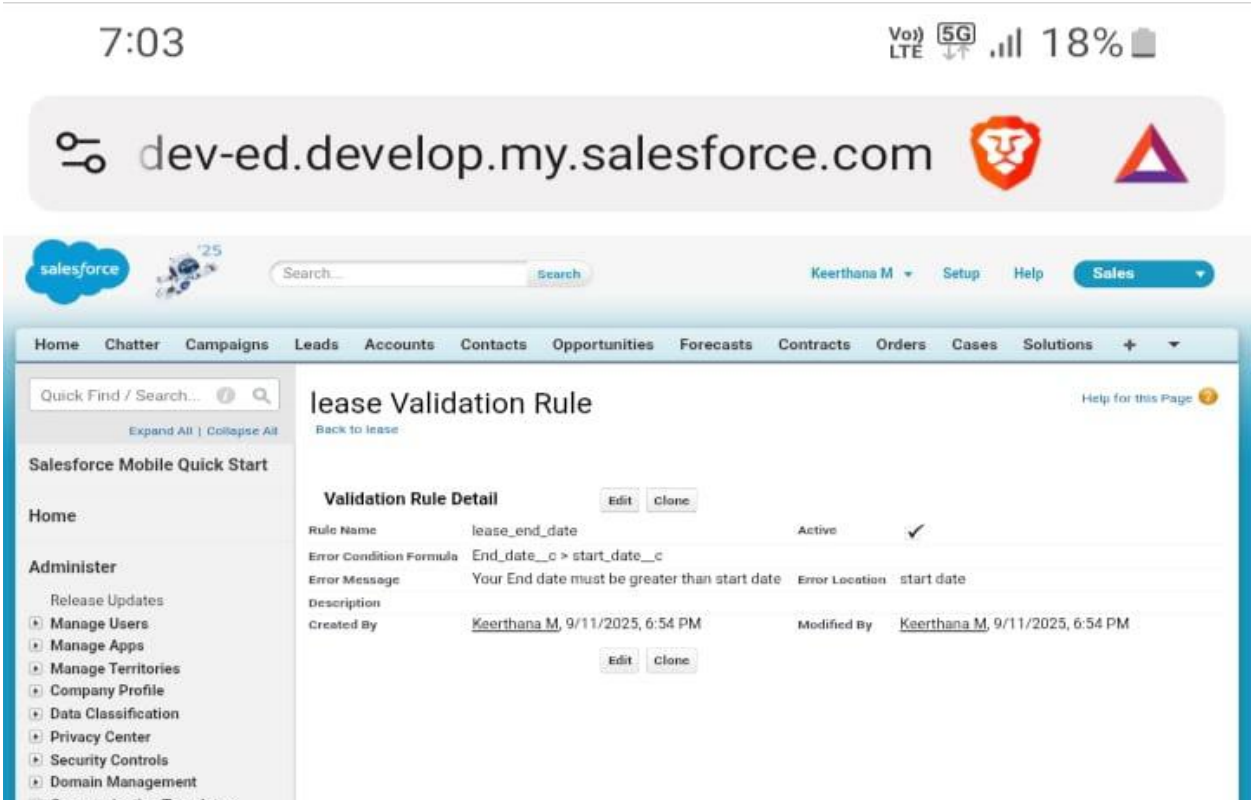
New Lightning App
Navigation Items
Available Items
Selected Items
Payment
Tenants
property
Lease
Back
Next

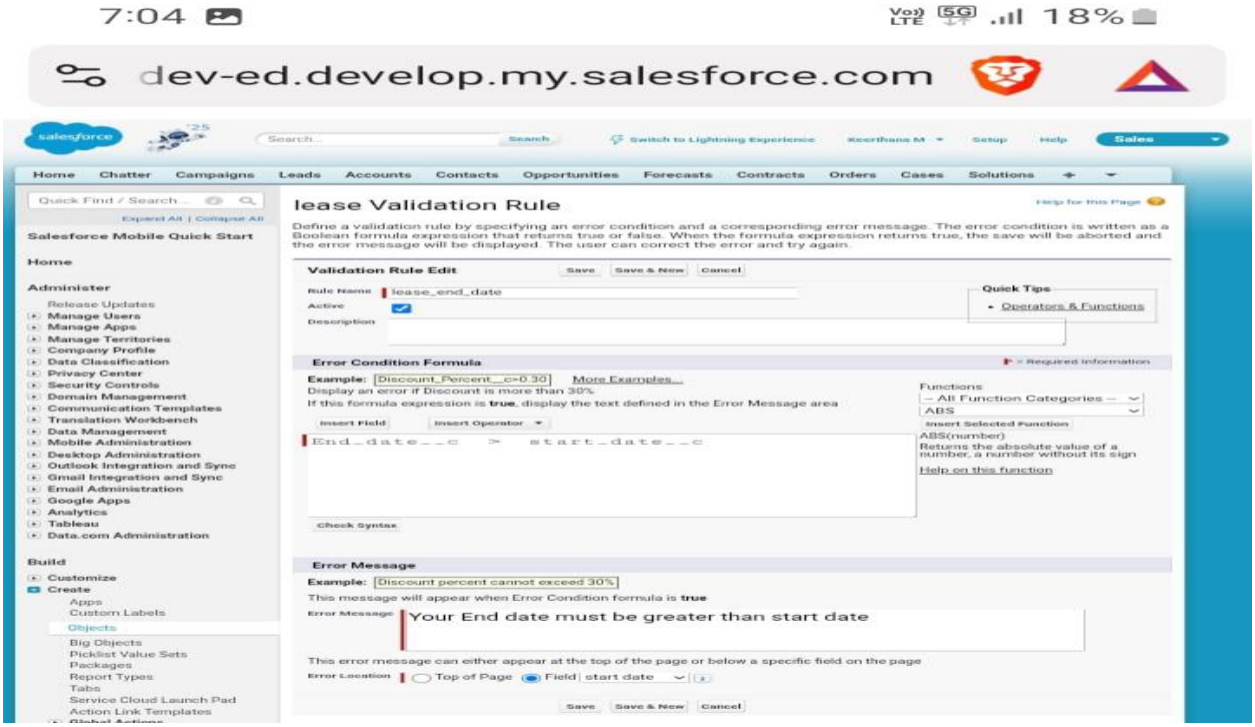

5:10
6df42-dev-ed.develop.lightning.force.com
New Lightning App
User Profiles
Available Profiles
Selected Profiles
System Administrator
Back
Save & Finish

**Implemented Flows for monthly rent and payment success :**

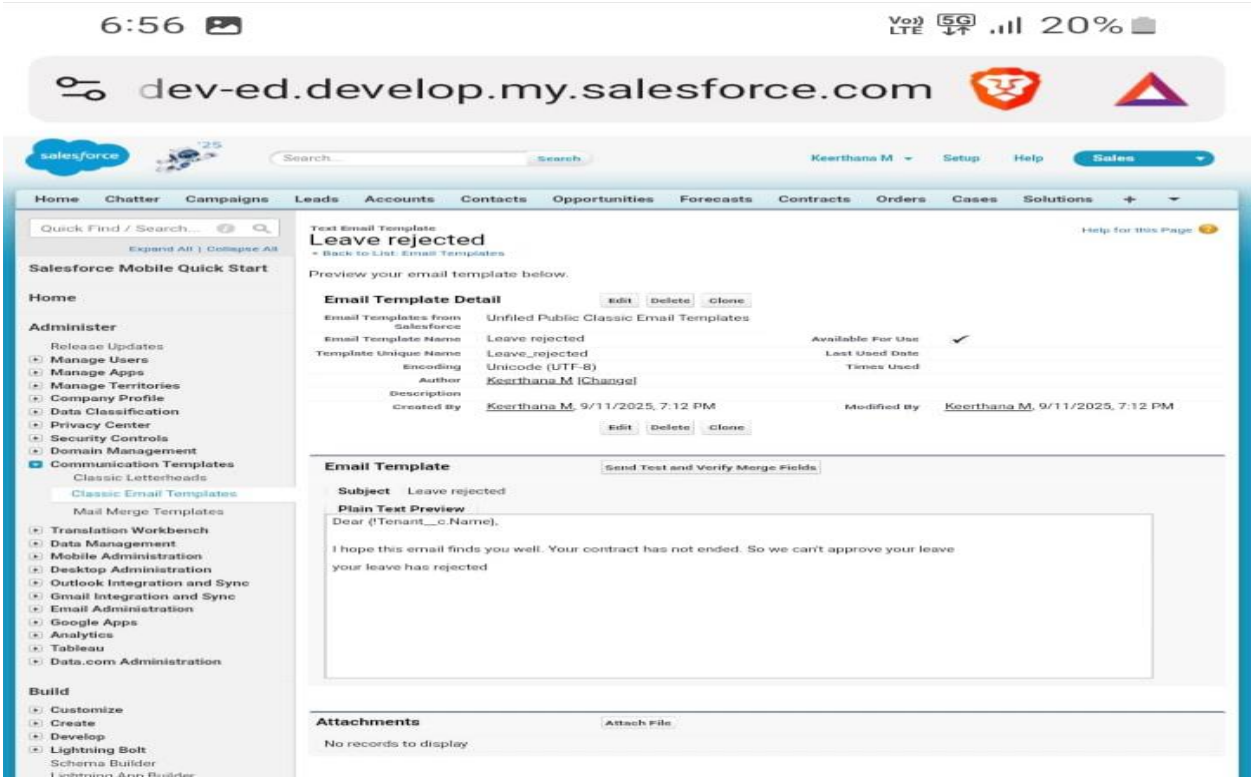


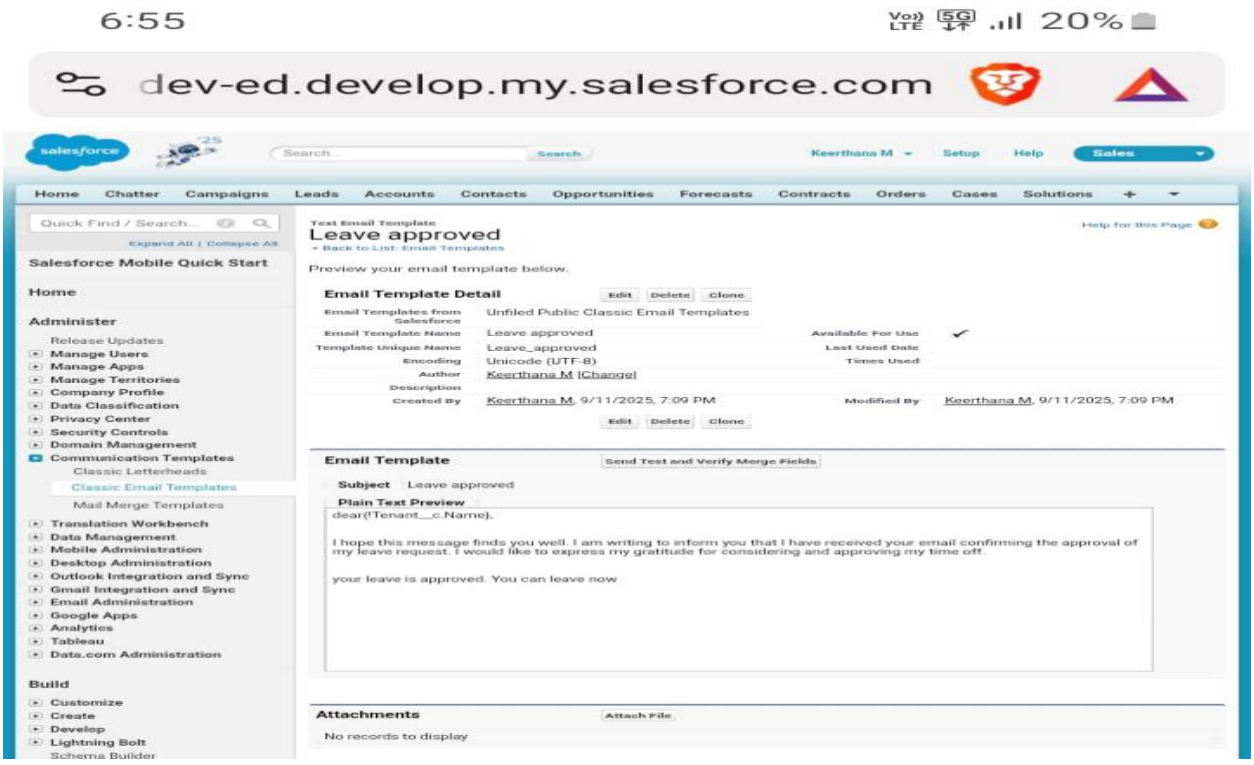
- **To create a validation rule to a Lease Object :**

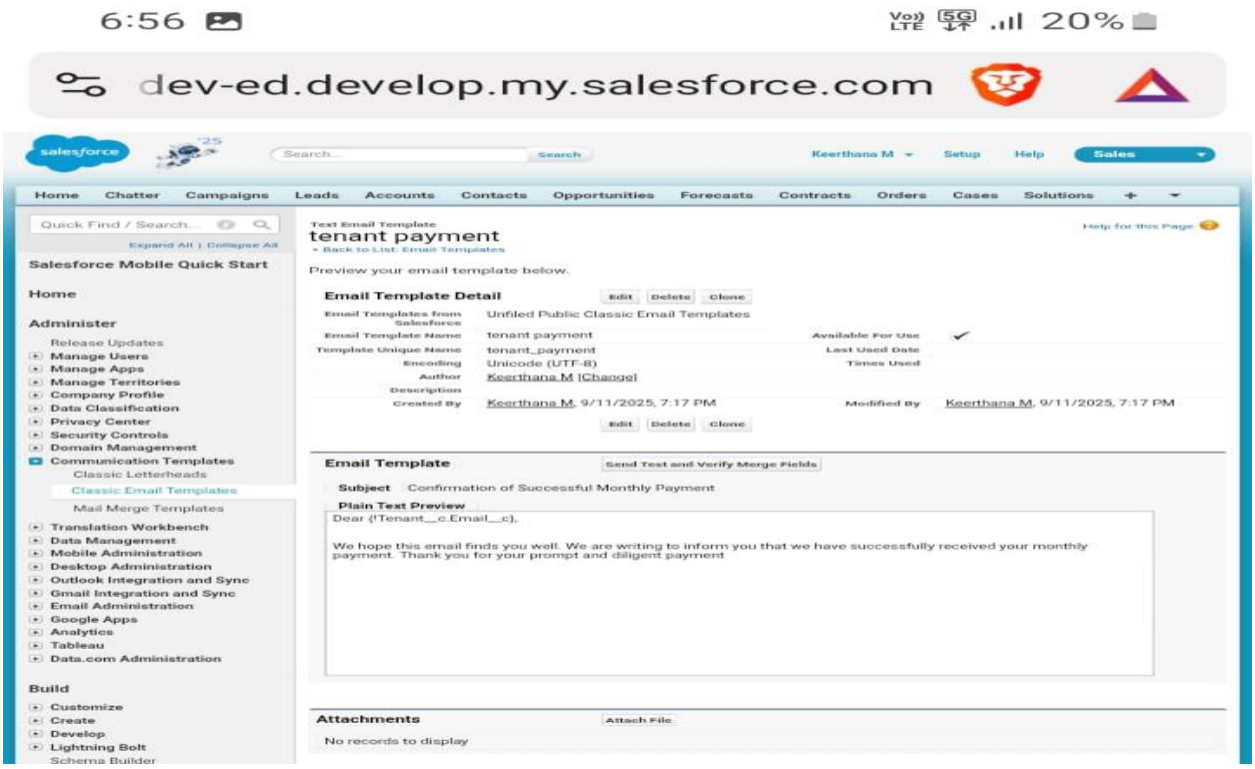


- **Built and tested email templates for leave request, approval, rejection, payment, and reminders :**

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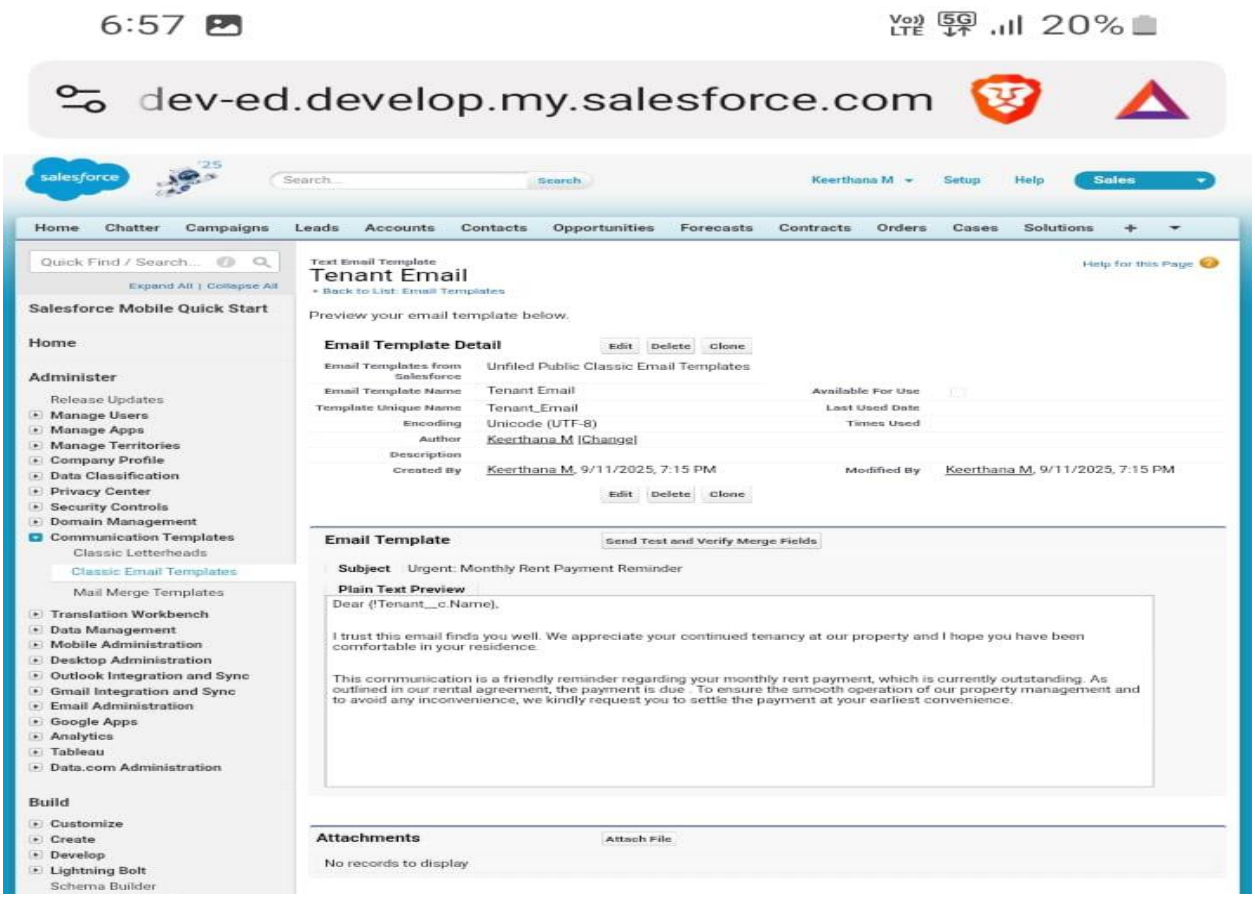
Salesforce Mobile Quick Start
Home
Administer
Release Updates
Manage Users
Manage Apps
Manage Territories
Company Profile
Data Classification
Privacy Center
Security Controls
Domain Management
Communication Templates
Classic Letterheads
Classic Email Templates
Mail Merge Templates
Translation Workbench
Data Management
Mobile Administration
Desktop Administration
Outlook Integration and Sync
Gmail Integration and Sync
Email Administration
Google Apps
Analytics
Tableau
Data.com Administration
Build
Customize
Create
Develop
Lightning Bolt
Schema Builder
Text Email Template
tenant payment
Back to List: Email Templates
Help for this Page
Preview your email template below.
Email Template Detail
Edit
Delete
Clone
Email Templates from Salesforce
Unfiled Public Classic Email Templates
Email Template Name
tenant payment
Available For Use
Template Unique Name
tenant_payment
Last Used Date
Encoding
Unicode (UTF-8)
Times Used
Author
Keerthana M [Change]
Description
Created By
Keerthana M, 9/11/2025, 7:17 PM
Modified By
Keerthana M, 9/11/2025, 7:17 PM
Email Template
Send Test and Verify Merge Fields
Subject
Confirmation of Successful Monthly Payment
Plain Text Preview
Dear {!Tenant__c.Email__c},
We hope this email finds you well. We are writing to inform you that we have successfully received your monthly payment. Thank you for your prompt and diligent payment
Attachments
Attach File
No records to display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Solutions
Quick Find / Search...
Expand All | Collapse All
Salesforce Mobile Quick Start
Home
Administer
Release Updates
Manage Users
Manage Apps
Manage Territories
Company Profile
Data Classification
Privacy Center
Security Controls
Domain Management
Communication Templates
Classic Letterheads
Classic Email Templates
Mail Merge Templates
Translation Workbench
Data Management
Mobile Administration
Desktop Administration
Outlook Integration and Sync
Gmail Integration and Sync
Email Administration
Google Apps
Analytics
Tableau
Data.com Administration
Build
Customize
Create
Develop
Lightning Bolt
Schema Builder
Text Email Template
Tenant Email
Back to List: Email Templates
Help for this Page
Preview your email template below.
Email Template Detail
Edit
Delete
Clone
Email Templates from Salesforce
Unfiled Public Classic Email Templates
Email Template Name
Tenant Email
Available For Use
Template Unique Name
Tenant_Email
Last Used Date
Encoding
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Description
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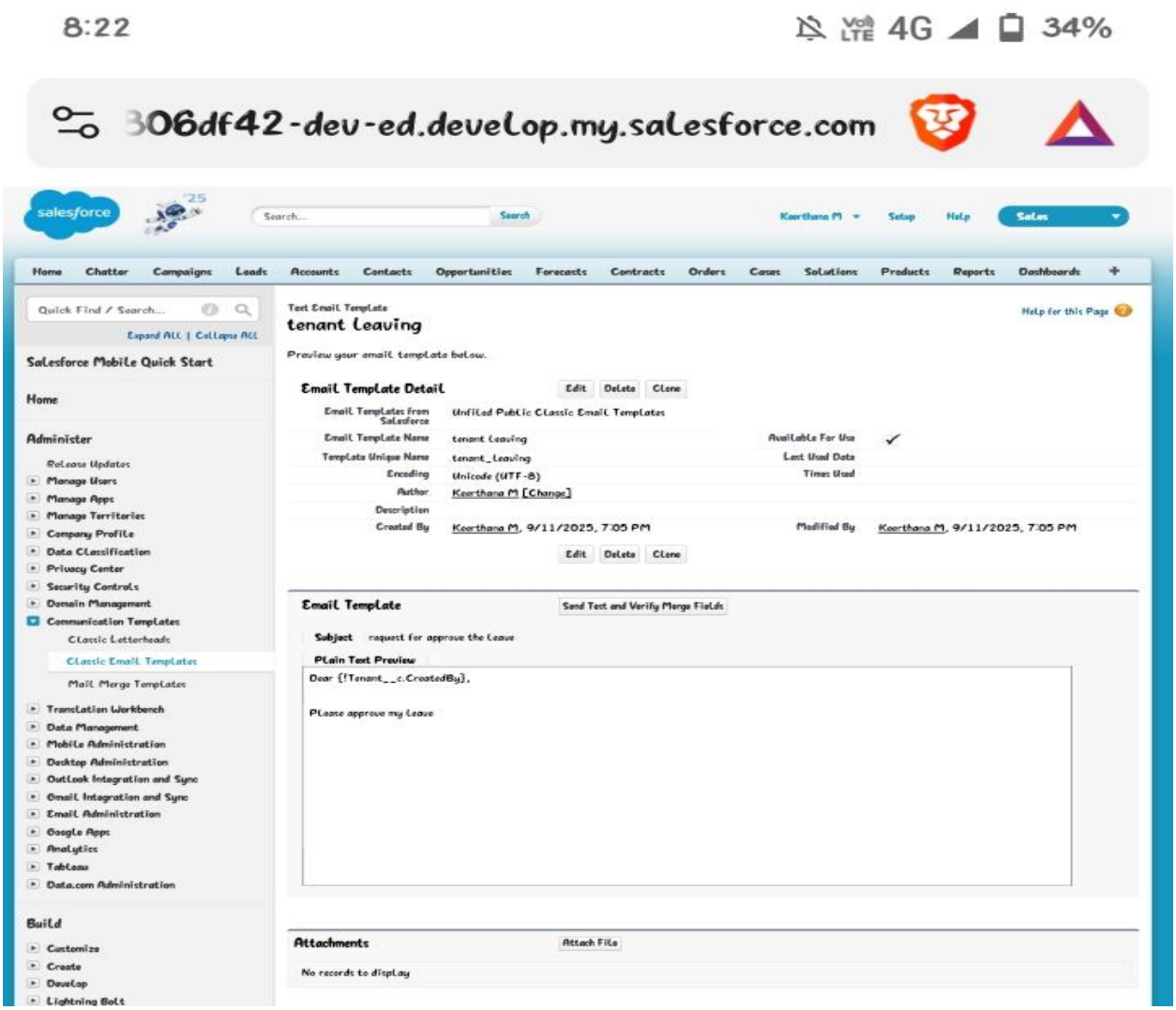
Keerthana M, 9/11/2025, 7:15 PM
Modified By
Keerthana M, 9/11/2025, 7:15 PM
Email Template
Send Test and Verify Merge Fields
Subject
Urgent: Monthly Rent Payment Reminder
Plain Text Preview
Dear {!Tenant__c.Name},
I trust this email finds you well. We appreciate your continued tenancy at our property and I hope you have been comfortable in your residence.
This communication is a friendly reminder regarding your monthly rent payment, which is currently outstanding. As outlined in our rental agreement, the payment is due . To ensure the smooth operation of our property management and to avoid any inconvenience, we kindly request you to settle the payment at your earliest convenience.
Attachments
Attach File
No records to display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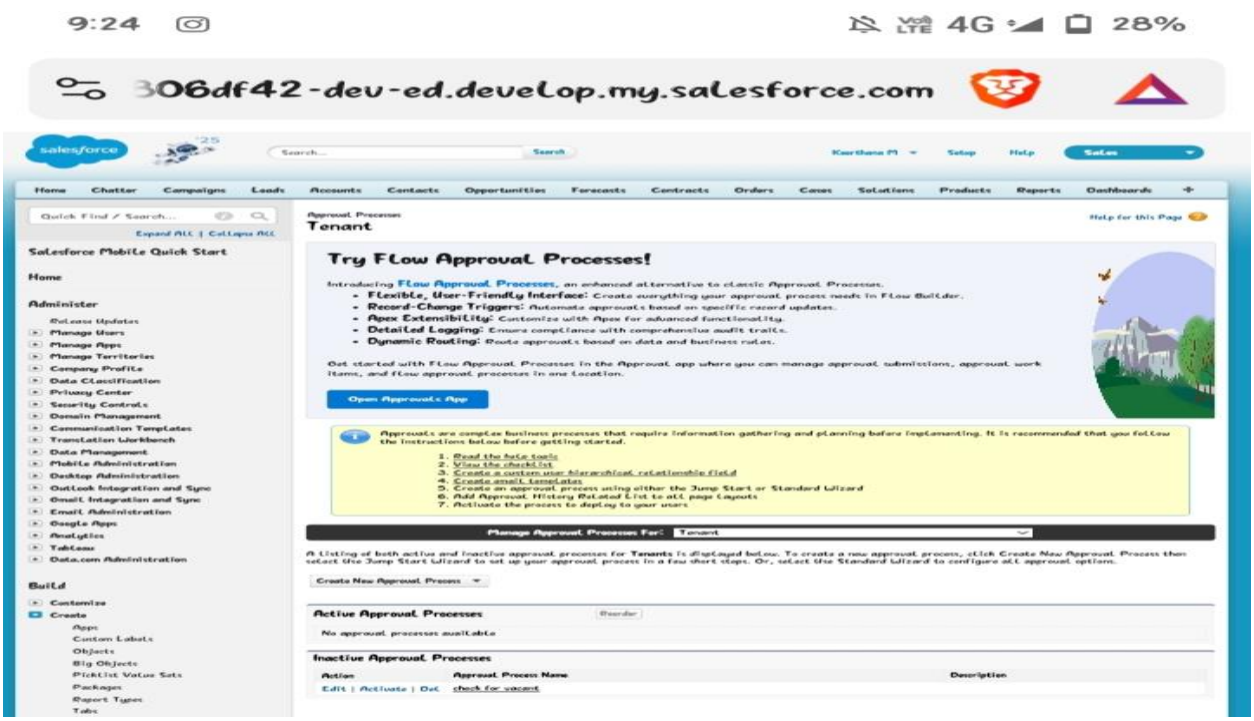
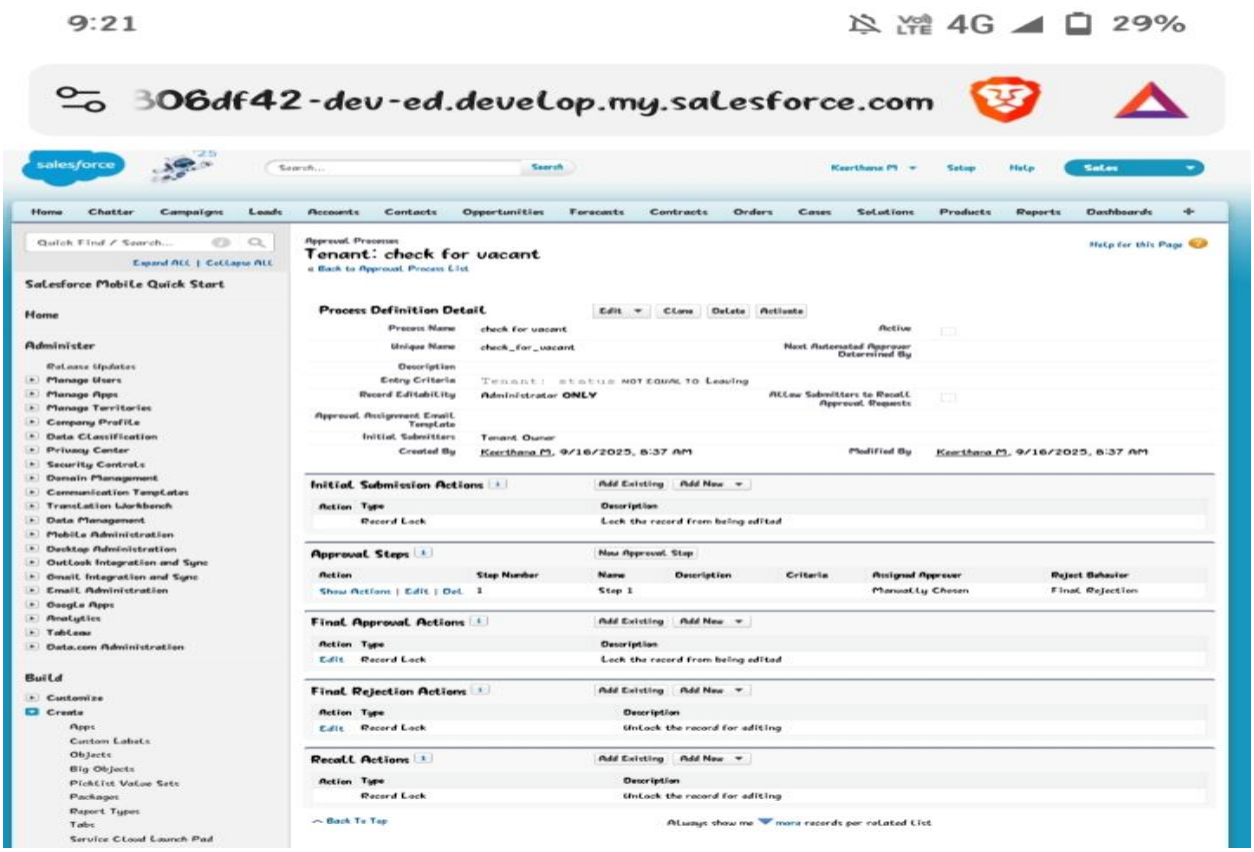
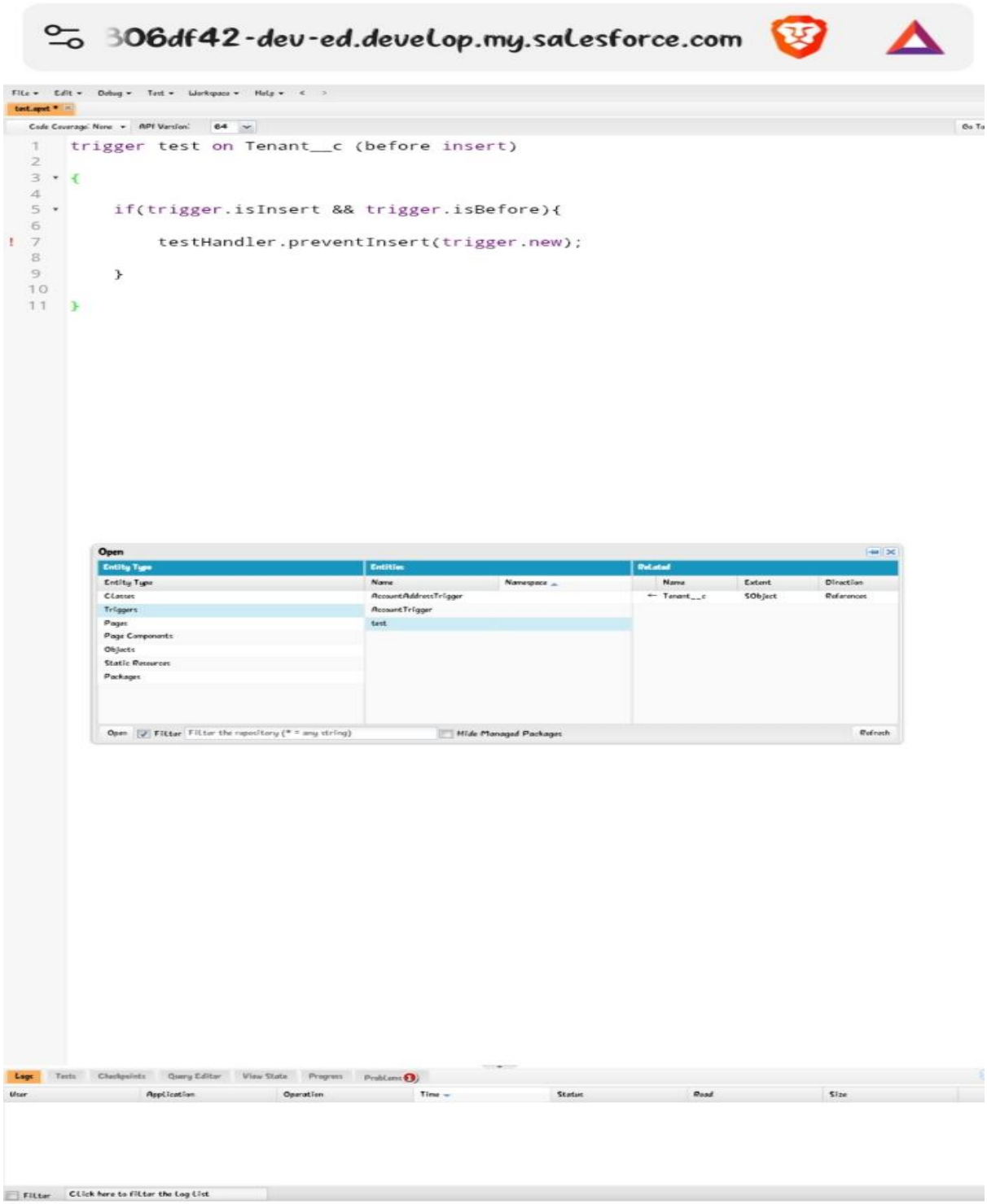
Cases
Solutions
Products
Reports
Dashboards
Quick Find / Search...
Expand All | Collapse All
Salesforce Mobile Quick Start
Home
Administer
Release Updates
Manage Users
Manage Apps
Manage Territories
Company Profile
Data Classification
Privacy Center
Security Controls
Domain Management
Communication Templates
Classic Letterheads
Classic Email Templates
Mail Merge Templates
Translation Workbench
Data Management
Mobile Administration
Desktop Administration
Outlook Integration and Sync
Gmail Integration and Sync
Email Administration
Google Apps
Analytics
Tableau
Data.com Administration
Build
Customize
Create
Develop
Lightning Bolt
Text Email Template
tenant Leaving
Help for this Page
Preview your email template below.
Email Template Detail
Edit
Delete
Clone
Email Templates from Salesforce
Unfiled Public Classic Email Templates
Email Template Name
tenant Leaving
Available For Use
Template Unique Name
tenant_Leaving
Last Used Date
Encoding
Unicode (UTF-8)
Times Used
Author
Keerthana M [Change]
Description
Created By
Keerthana M, 9/11/2025, 7:05 PM
Modified By
Keerthana M, 9/11/2025, 7:05 PM
Email Template
Send Test and Verify Merge Fields
Subject
request for approve the Leave
Plain Text Preview
Dear {!Tenant__c.CreatedBy},
Please approve my Leave
Attachments
Attach File
No records to display

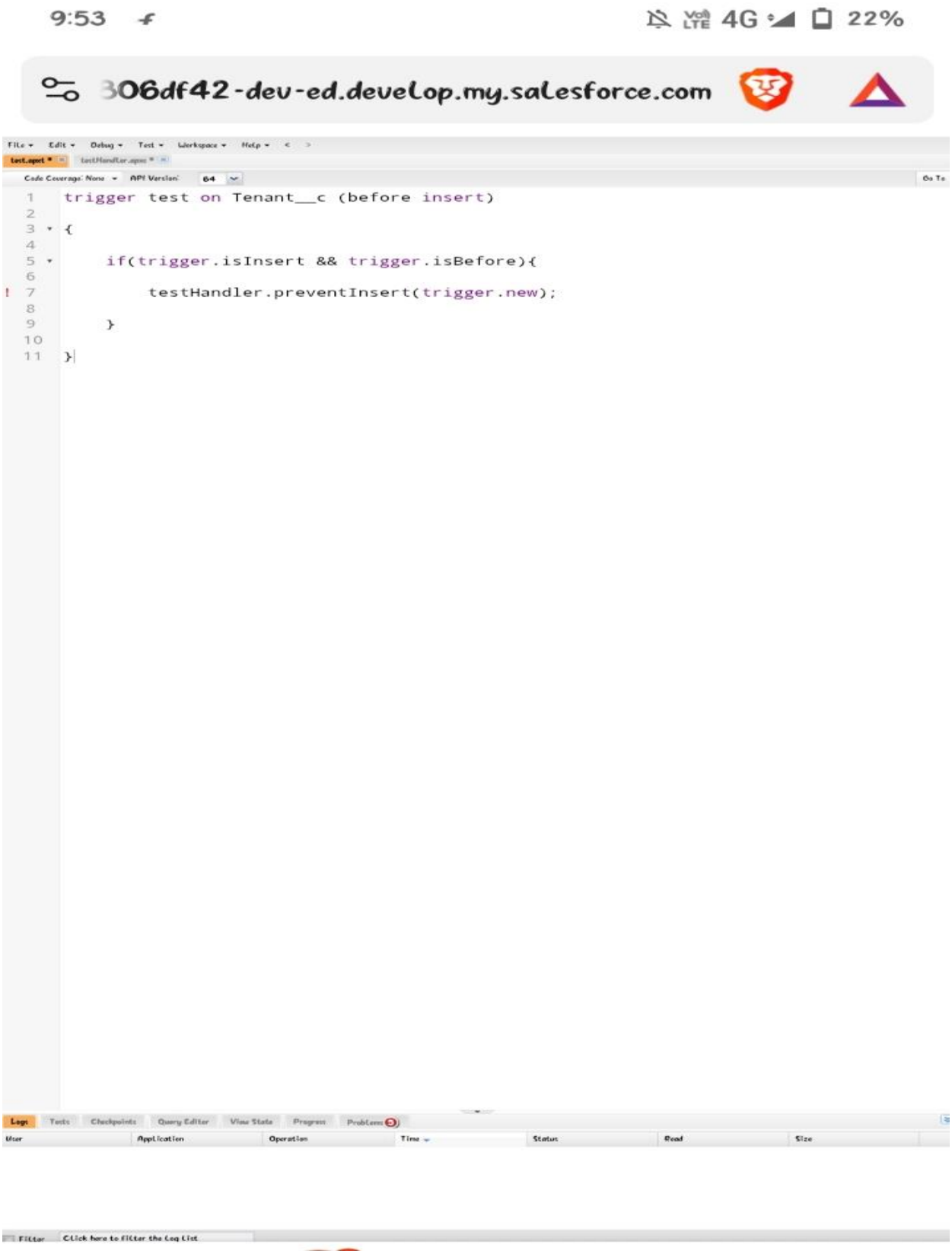
- **Approval Process creation :**



- **Apex Trigger :**
  **Create an Apex Trigger :**

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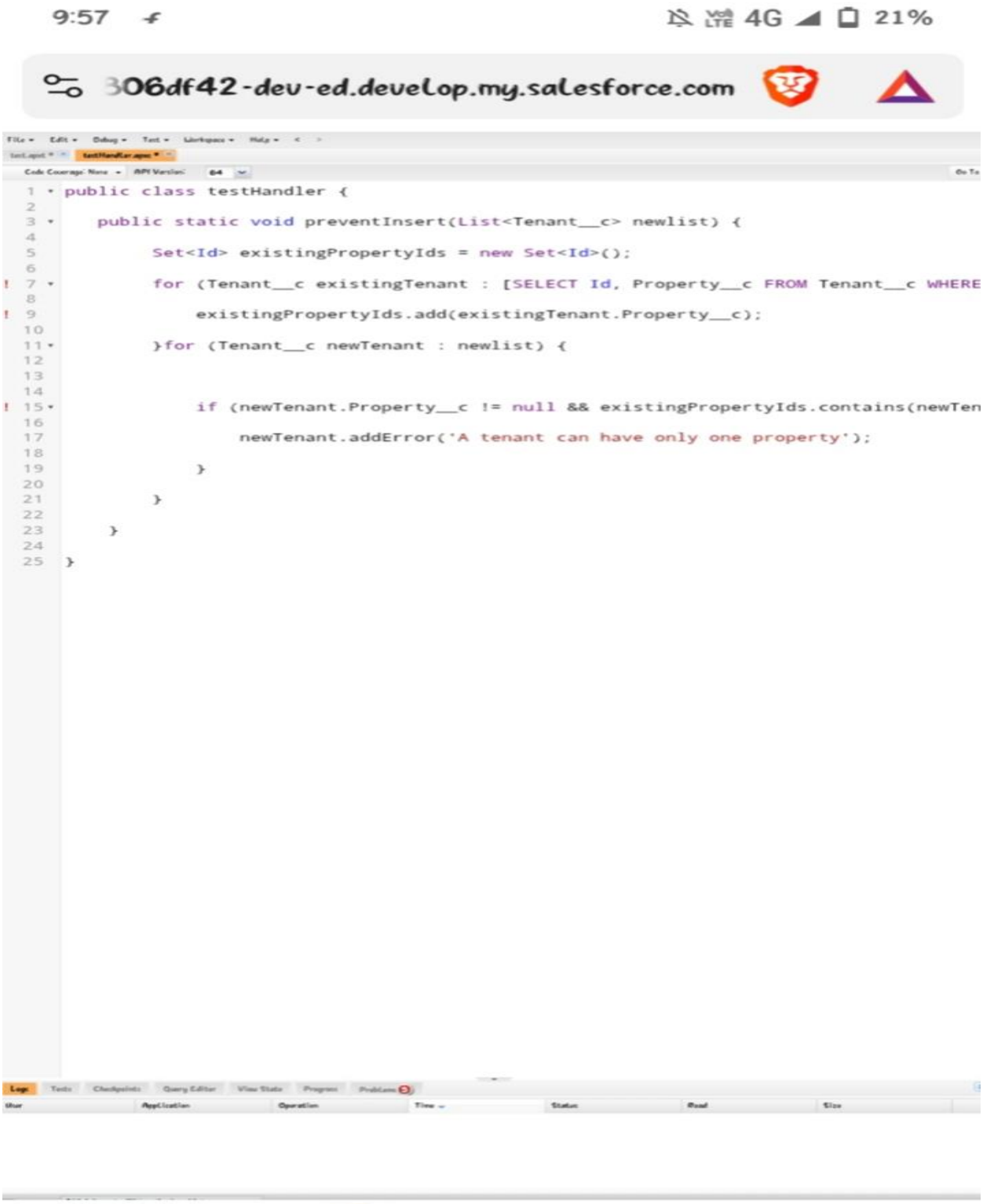
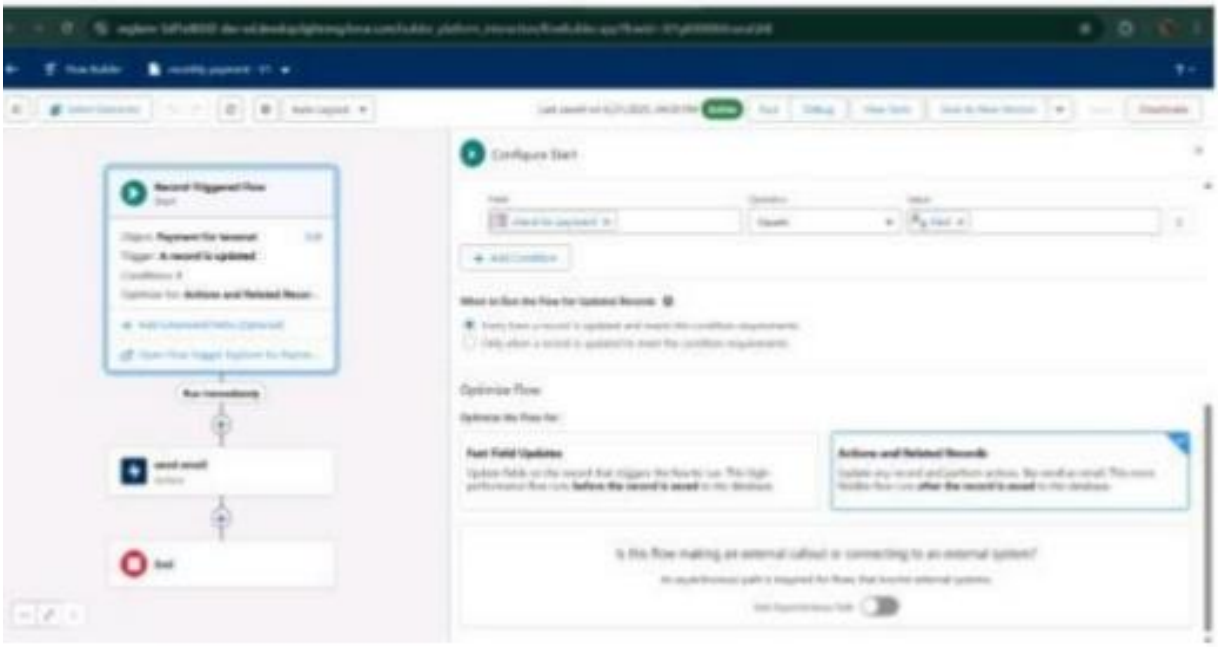
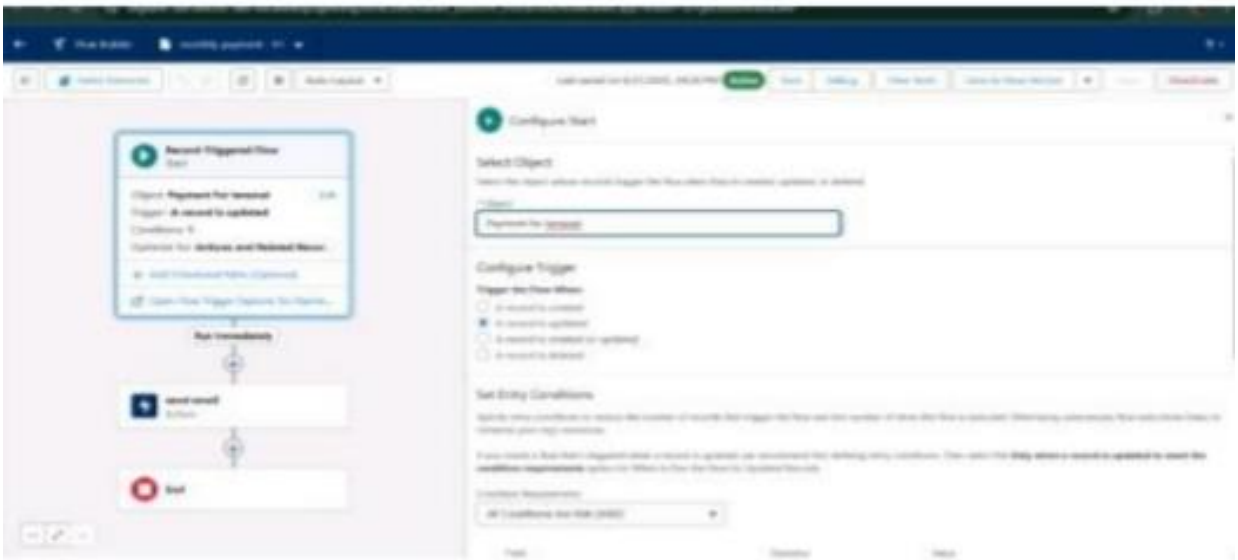
File
Edit
Debug
Test
Workspace
Help
test.apxt
testHandler.apxc
Code Coverage: None
API Version:
64
Go To
1 trigger test on Tenant__c (before insert)
2
3 {
4
5 if(trigger.isInsert && trigger.isBefore){
6
7 testHandler.preventInsert(trigger.new);
8
9 }
10
11 }
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems
User
Application
Operation
Time
Status
Read
Size
Filter
Click here to filter the Log List

- **Create an Apex Handler class**



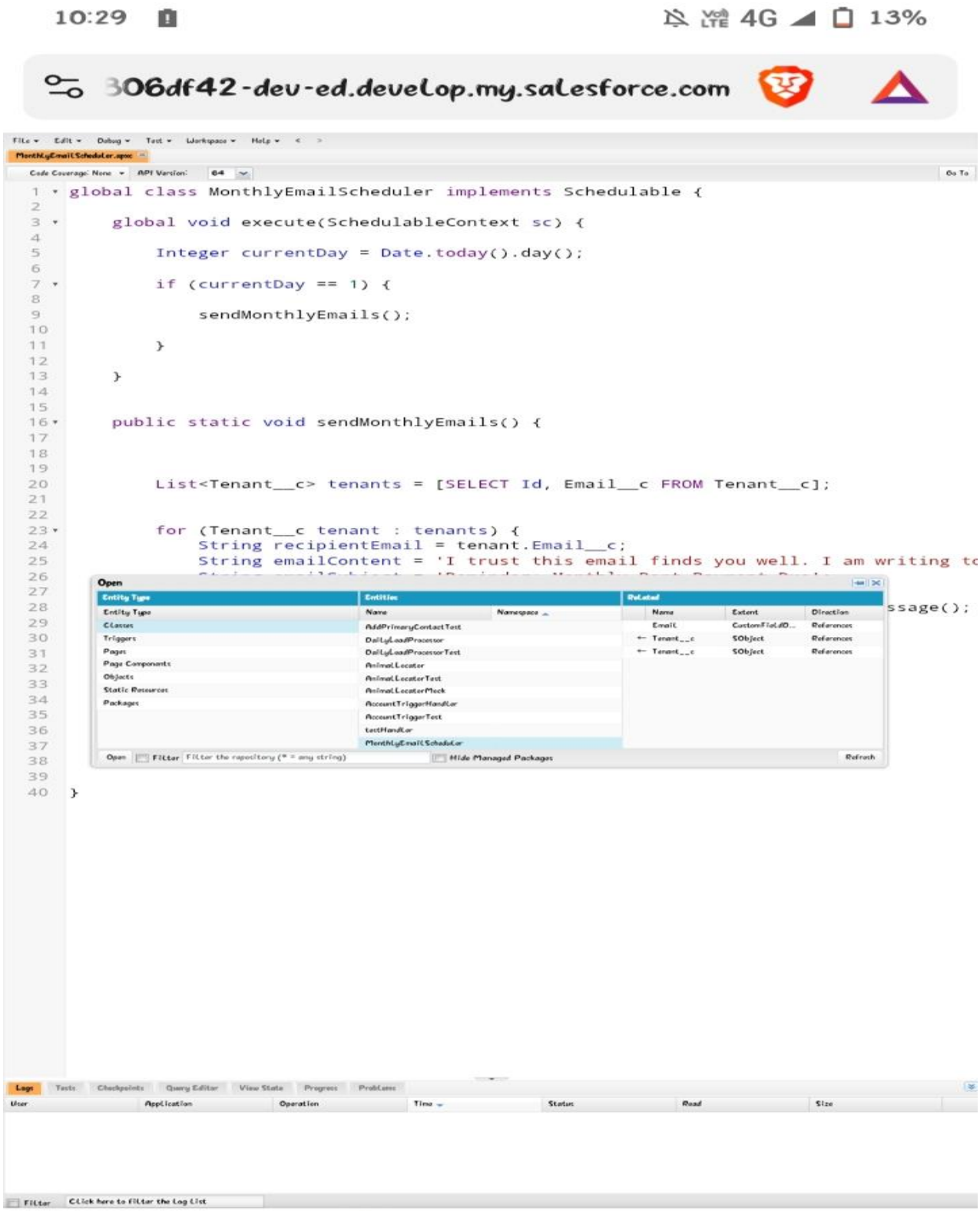
**Flows :**

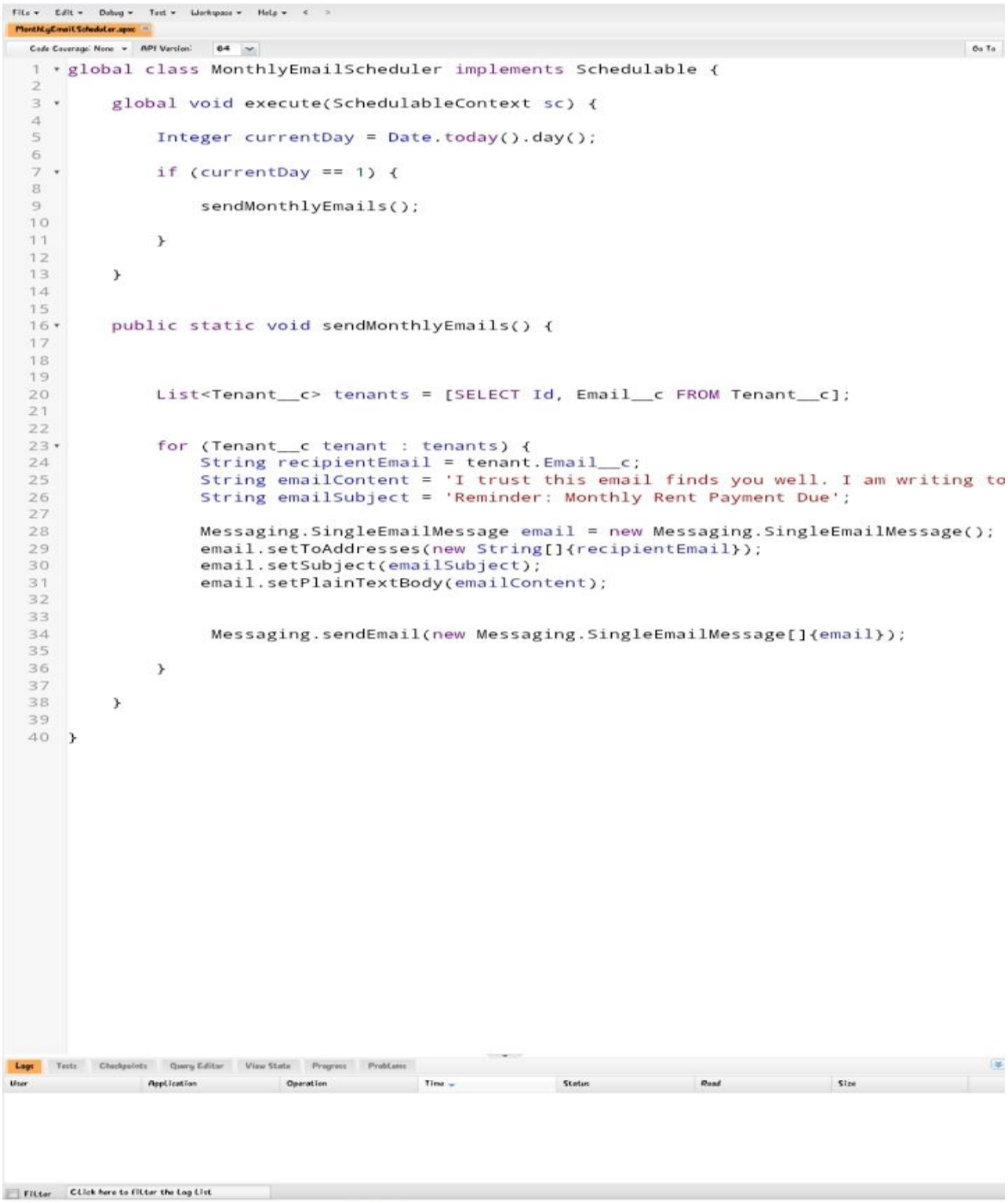




- **Schedule class:**

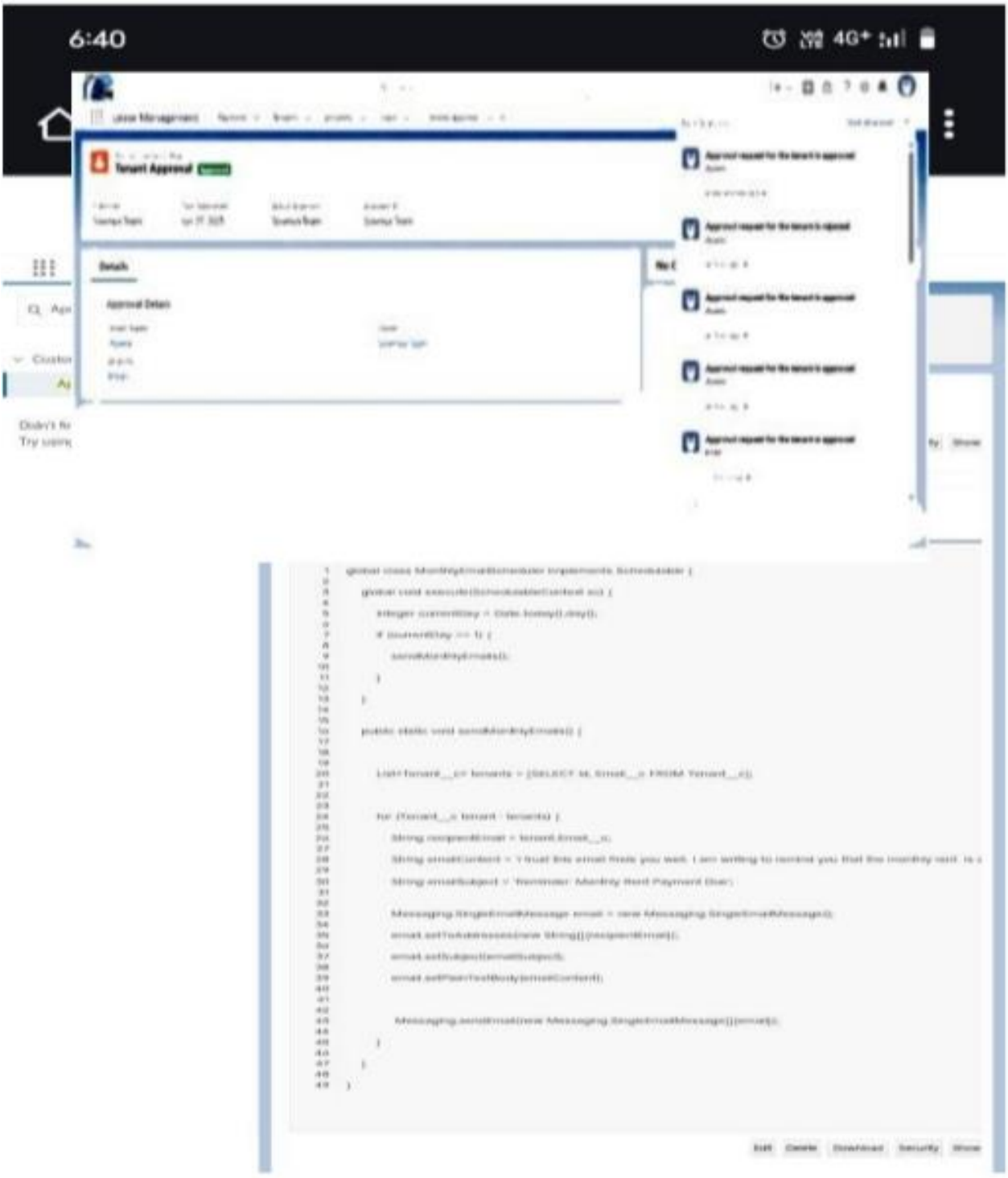
**Create an Apex Class**





```
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
            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});

        }

    }

}
```

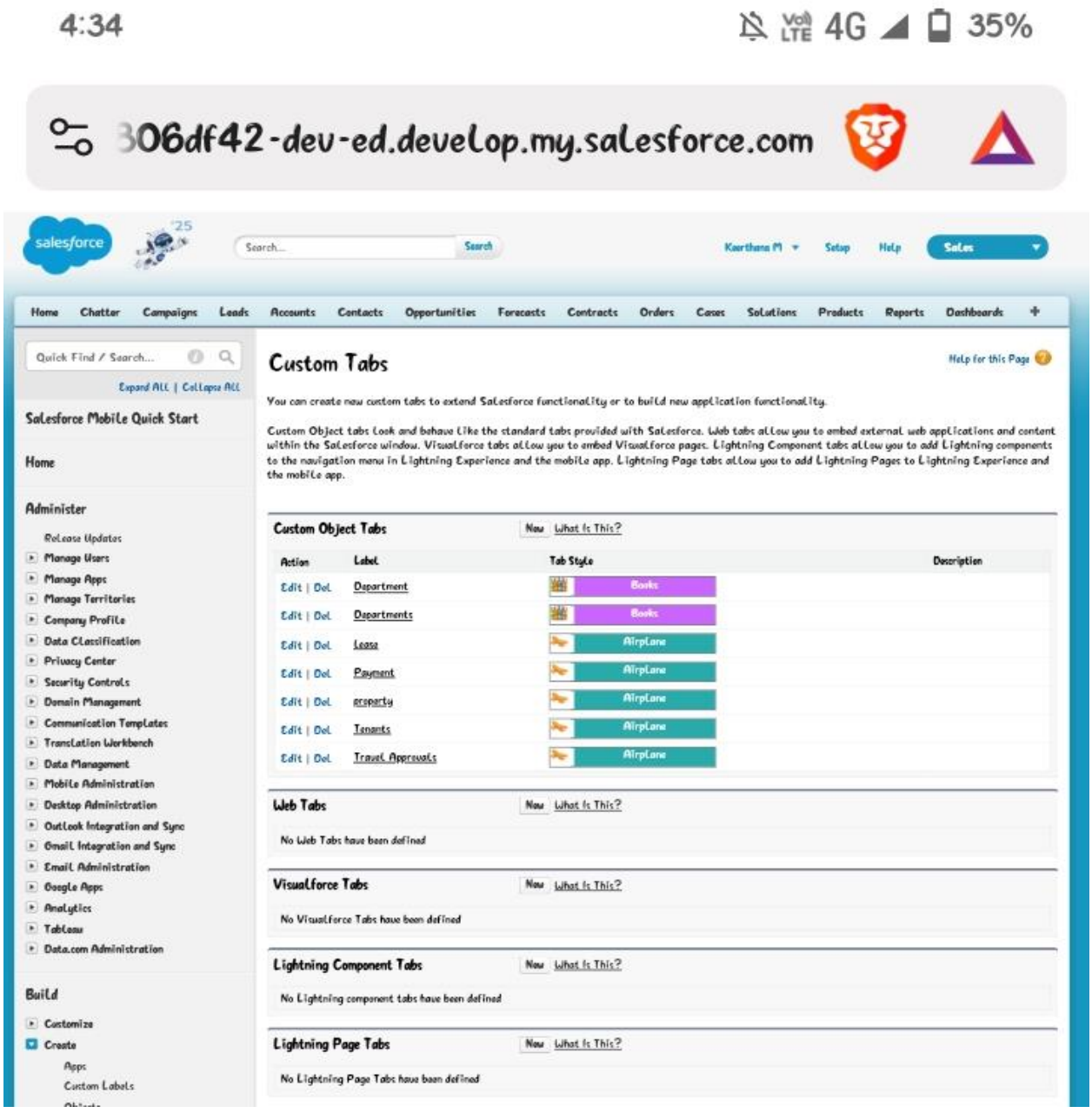
## Schedule Apex class



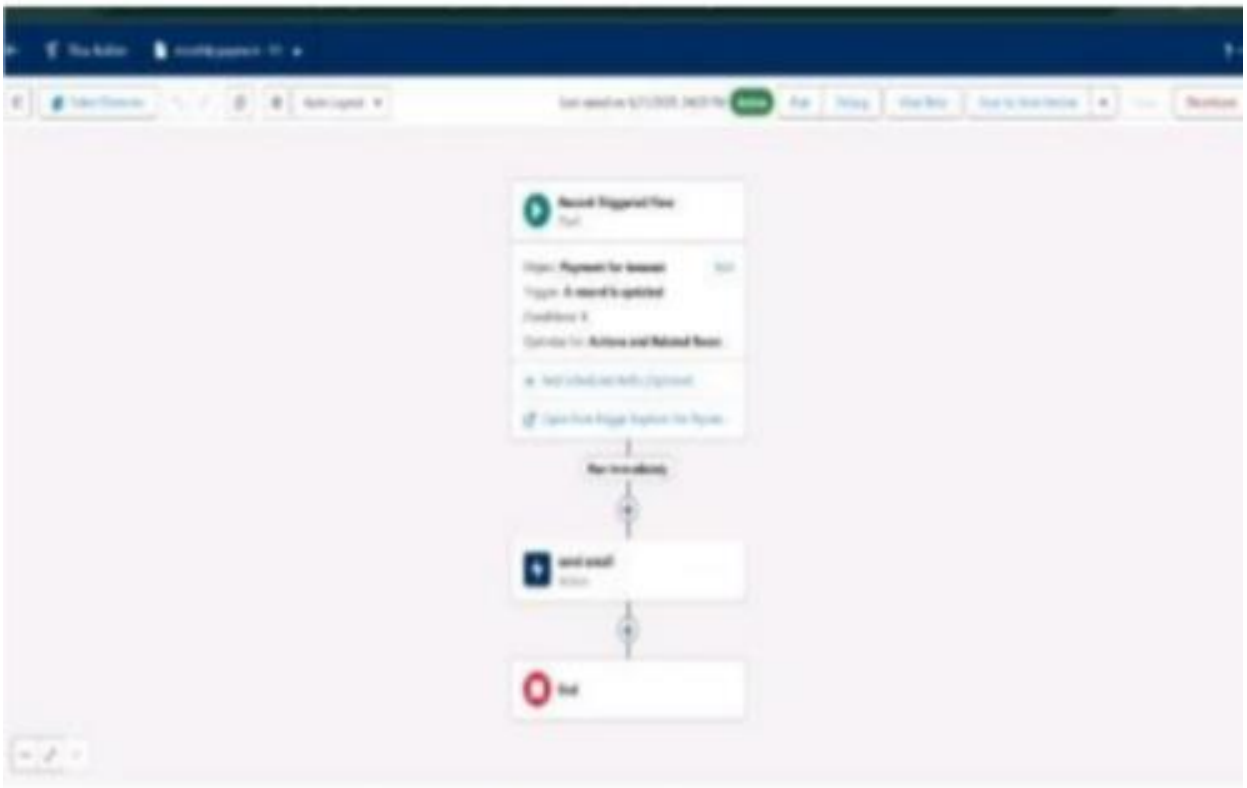
## RESULTS

### Output Screenshots

- **Tabs for Property, Tenant, Lease, Payment**



**Flow runs :**



- **Approval process notifications**

# ADVANTAGES & DISADVANTAGES :

**Advantage :** Financial Benefits
Operational Efficiency
Legal & Compliance
Flexibility
Transparency & Control

**Disadvantage :** Higher Long-Term Cost
No Ownership
Restrictions & Limitations
Complexity in Management

## 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

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 : 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(emailConten

        Messaging.sendEmail(new
Messaging.SingleEmailMessage[]{email});

        }
    }
}
```