

TITLE:LEASE MANAGEMENT

Category: Salesforce developer

Project Description:

A lease management project involves creating a system or application to efficiently handle the processes related to leasing real estate properties, equipment, or other assets. The goal is to streamline and automate various tasks associated with lease agreements, ensuring accurate record-keeping, compliance with regulations, and effective communication between parties involved.

TEAM ID: NM2025TMID02143

Team Size : 4

Team Leader : Krishnarubini C

Team member : Madhavan R

Team member : Kokila S

Team member : Kesavan B

Phase 1: Ideation

Problem Statement:

In real estate and asset management companies, handling Lease agreements, tenant details, payment schedules, and Renewals manually often leads to inefficiency, data loss, and Miscommunication. There is a need for a centralized digital Platform that automates lease tracking, approval processes, And notifications to improve productivity and accuracy.

Proposed Solution:

The Lease Management System built on Salesforce provides a Unified platform to manage leases, tenants, and property details Efficiently. Using Salesforce automation tools Like Flows, Approval Processes, and Email Alerts, the System ensures streamlined lease operations, reduces manual Effort, and provides real-time insights through dashboards and Reports.

Objectives:

- Digitize and automate the entire lease lifecycle—from Creation to renewal.
- Maintain tenant, property, and payment records in one Centralized system.
- Use Salesforce features (objects, triggers, and Automation) to minimize manual tasks.
- Enable managers to approve lease requests through an Automated approval flow.
- Send automatic email notifications for lease expirations And payment reminders.

Key Features / Functionalities:

- Custom Objects: Lease, Tenant, and Property with Defined relationships.
- Validation Rules: Ensure correct lease terms and data

Integrity.

- Approval Process: Automate lease approval and renewal requests.
- Email Alerts: Notify stakeholders about upcoming payments and expirations.
- Flow Automation: Streamline lease creation and update processes.
- Reports & Dashboards: Track active leases, payment status, and renewals.

Expected Outcome:

A fully automated, user-friendly Salesforce app that simplifies lease management operations, enhances transparency, and provides real-time insights for better decision-making.

Phase 2: Requirement Analysis

Milestone 1: Salesforce Account

Introduction:

Are you new to Salesforce? Not sure exactly what it is, or how to use it? Don't know where you should start on your learning journey? If you've answered yes to any of these questions, then you're in the right place. This module is for you.

Welcome to Salesforce! Salesforce is game-changing technology, with a host of productivity-boosting features, that will help you sell smarter and faster. As you work toward your badge for this module, we'll take you through these features and answer the question, "What is Salesforce, anyway?".

What Is Salesforce?

Salesforce is your customer success platform, designed to help you sell, service, market, analyze, and connect with your customers.

Salesforce has everything you need to run your business from anywhere. Using standard products and features, you can manage relationships with prospects and

customers, collaborate and engage with employees and partners, and store your data securely in the cloud.

So what does that really mean? Well, before Salesforce, your contacts, emails, follow-up tasks, and prospective deals might have been organized something like this:

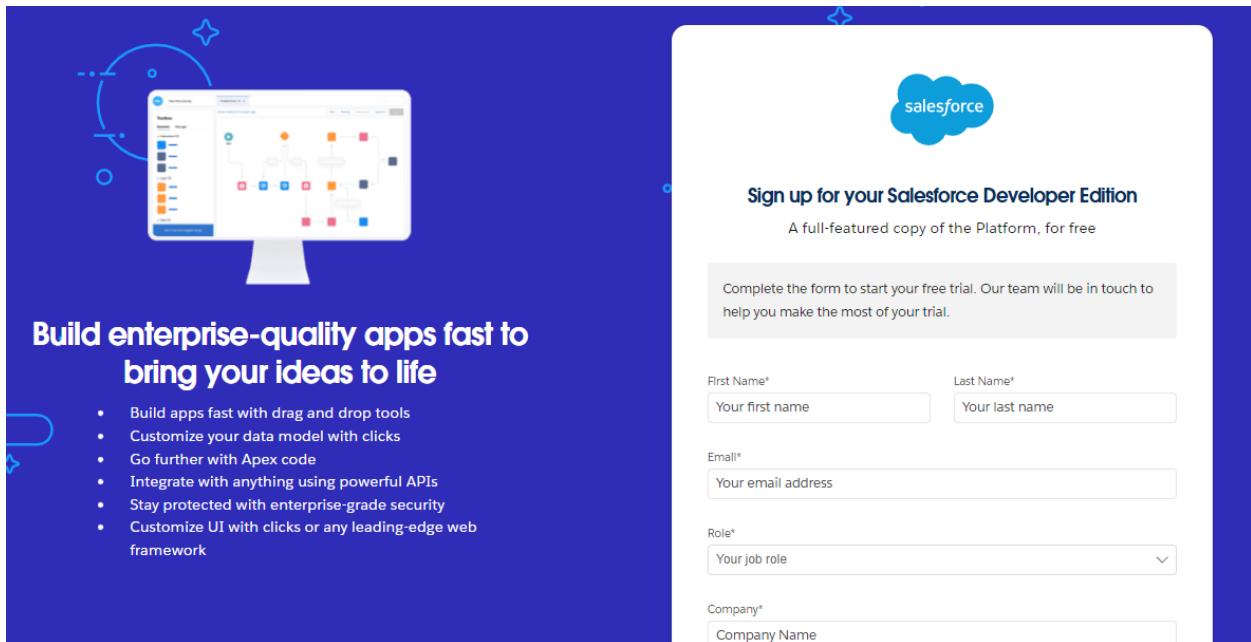
<https://youtu.be/r9EX3lGde5k>

Creating Developer Account:

Creating a developer org in salesforce.

Go to <https://developer.salesforce.com/signup>

On the sign up form, enter the following details :



First name & Last name

Email

Role : Developer

Company : College Name

Country : India

Postal Code : pin code

Username : should be a combination of your name and company

This need not be an actual email id, you can give anything in the format :
username@organization.com

Click on sign me up after filling these.

1.Click on Verify Account

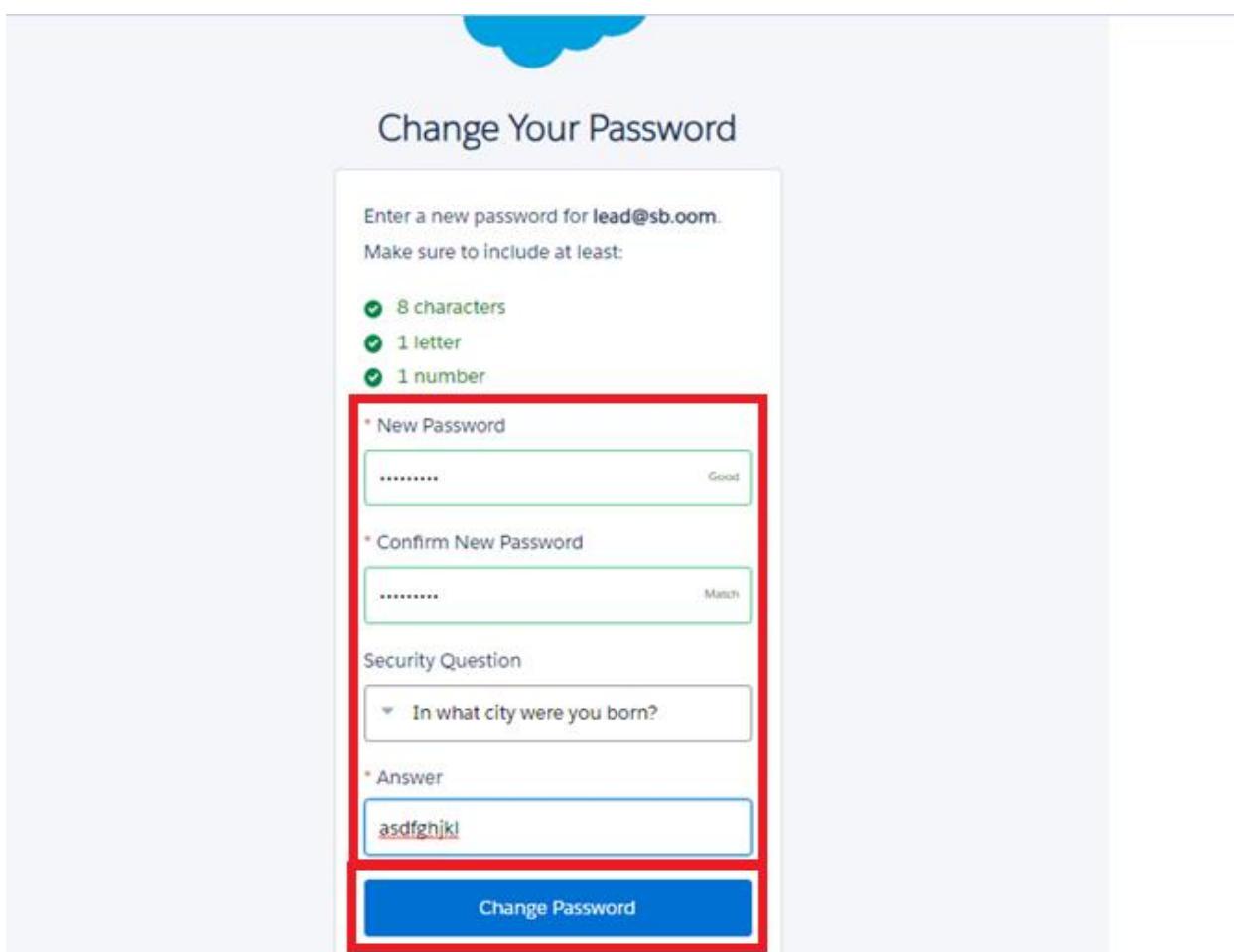
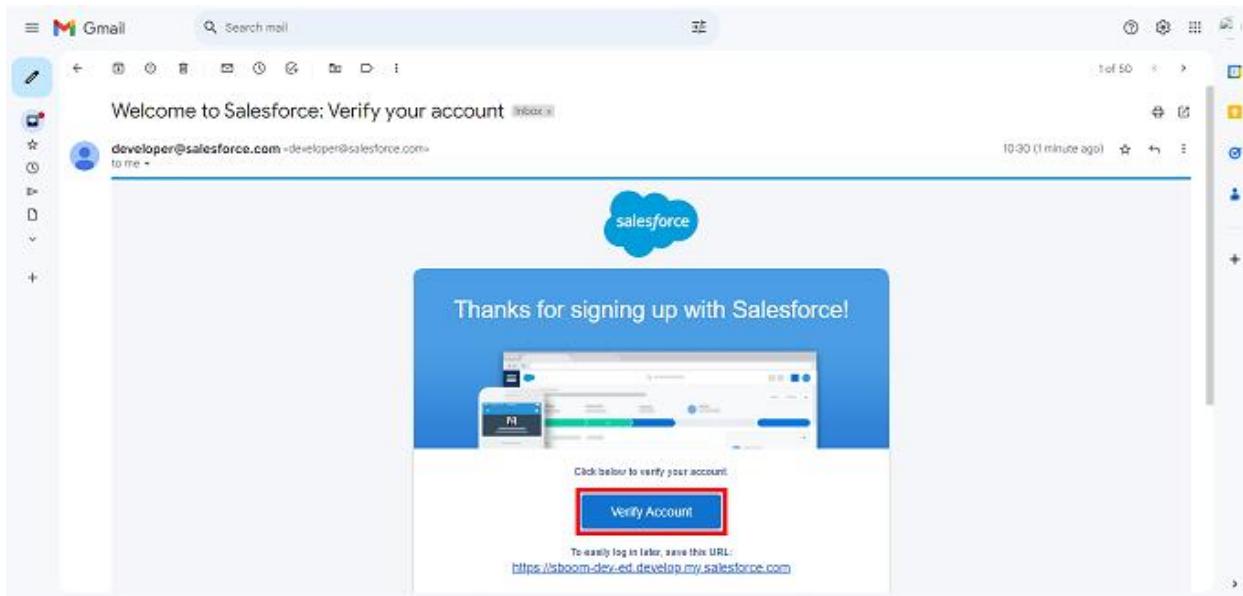
2.Give a password and answer a security question and click on change password.

3.Give a password and answer a security question and click on change password.

4.Then you will redirect to your salesforce setup page.

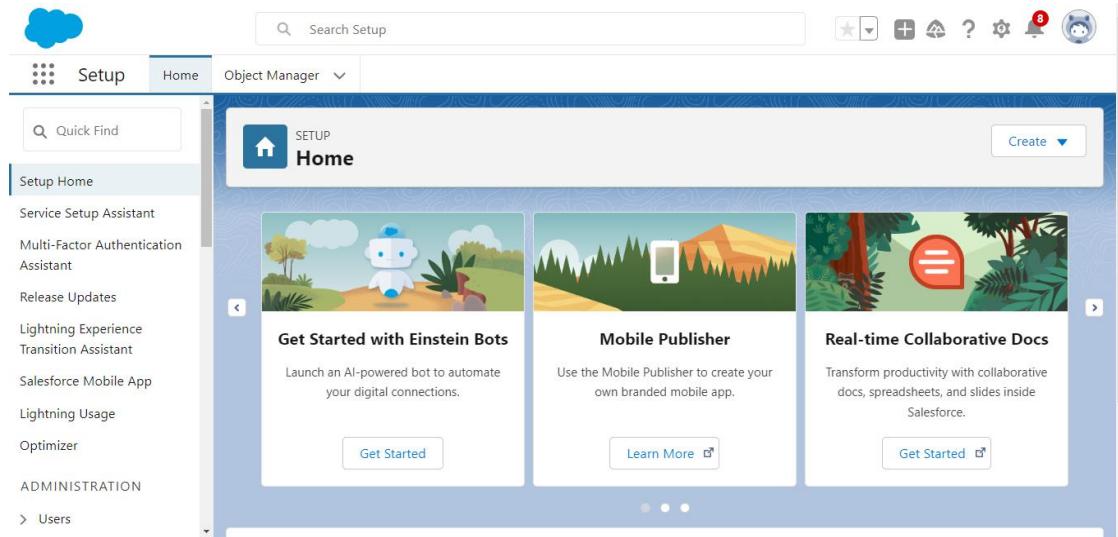
Account Activation:

1. Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.



1. Click on Verify Account
2. Give a password and answer a security question and click on change password.

3. Give a password and answer a security question and click on change password.
4. Then you will redirect to your salesforce setup page.



Object

What Is an Object?

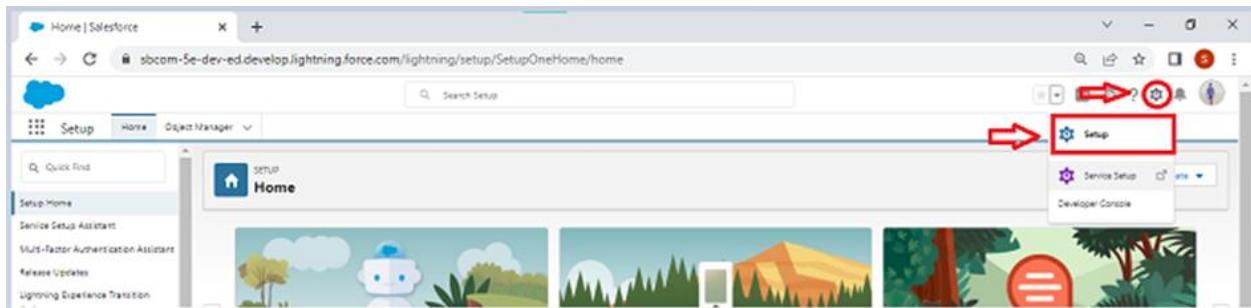
Salesforce objects are database tables that permit you to store data that is specific to an organization. What are the types of Salesforce objects

Salesforce objects are of two types:

1. Standard Objects: Standard objects are the kind of objects that are provided by salesforce.com such as users, contracts, reports, dashboards, etc.

2. Custom Objects: Custom objects are those objects that are created by users. They supply information that is unique and essential to their organization. They are the heart of any application and provide a structure for sharing data.

To Navigate to Setup page:



To create an object:

1. From the setup page ? Click on Object Manager ? Click on Create ? Click on Custom Object.

Setup Home Object Manager ▾

Object Manager

SETUP Object Manager 51+ Items, Sorted by Label

LABEL API NAME TYPE DESCRIPTION LAST MODIFIED

Custom Object Custom Object from Spreadsheet

2.On Custom object defining page:

3.Enter the label name, plural label name, click on Allow reports, Allow search.

New Custom Object | Salesforce

Custom Object Definition Edit

Custom Object Information

The singular and plural labels are used in tabs, page layouts, and records.

Label Example: Account

Plural Label Example: Accounts

Starts with lower case

The Object Name is used when referencing the object via the API.

Object Name Example: account

Description

Contact sensitive Help Setting

Open the standard Salesforce.com Help & Training window

Open a window using a Visualforce page

Content Name

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name field is always called "Name" when referenced via the API.

Record Name Example: Account Name

Date Type Text

Optional Features

Allow Reports

Allow Activities

Track Field History

4.Click on Save.

Tabs

What is Tab : A tab is like a user interface that is used to build records for objects and to view the records in the objects.

Types of Tabs:

1. Custom Tabs

Custom object tabs are the user interface for custom applications that you build in salesforce.com. They look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.

2. Web Tabs

Web Tabs are custom tabs that display web content or applications embedded in the salesforce.com window. Web tabs make it easier for your users to quickly access content and applications they frequently use without leaving the salesforce.com application.

1. Visualforce Tabs

Visualforce Tabs are custom tabs that display a Visualforce page. Visualforce tabs look and behave like standard salesforce.com tabs such as accounts, contacts, and opportunities.

2. Lightning Component Tabs

Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app.

3. Lightning Page Tabs

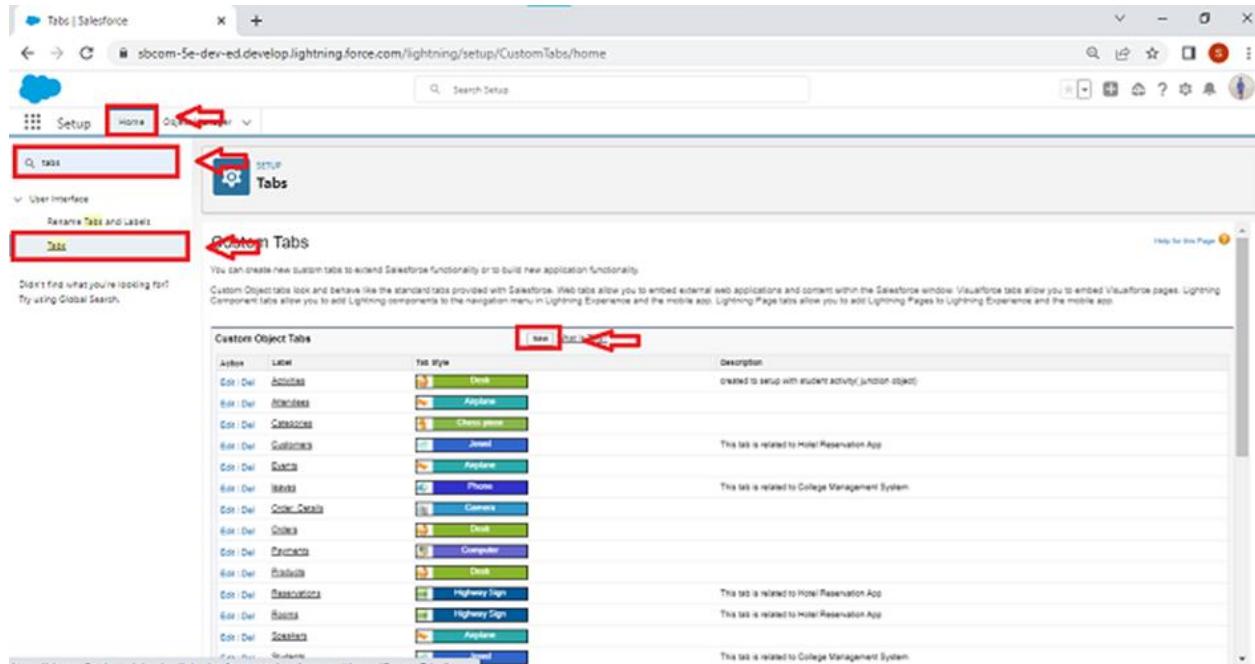
Lightning Page Tabs let you add Lightning Pages to the mobile app navigation menu.

Lightning Page tabs don't work like other custom tabs. Once created, they don't show up on the All Tabs page when you click the Plus icon that appears to the right of your current tabs. Lightning Page tabs also don't show up in the Available Tabs list when you customize the tabs for your apps.

Creating a Custom Tab

To create a Tab (Property)

Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)



1. Select Object(property) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .

2. Make sure that the Append tab to users' existing personal customizations is checked.

3.Click save

Creating Remaining Tabs

Now create the Tabs for the remaining Objects, they are “Payment for tenant,lease,tenant”.

Follow the same steps as mentioned in Activity -1 .

The Lightning App

Lightning apps gives users access to sets of objects, tabs, and other items all in one convenient bundle in the navigation bar.

Lightning apps let you brand your apps with a custom color and logo. You can even include a utility bar and Lightning page tabs in your Lightning app. Members of your org can work more efficiently by easily switching between apps.

Use Case:

Well done you have reached close to your requirement by creating the objects to store the organisation's data. Making a database for an organisation is just not enough to reach out the requirements, the task is how the users at the organisation can access the objects you have created for them. As an Admin for the organisation it's your duty to make sure every user of the organisation is able to access the data modelling structure.

Create a Lightning App

To create a lightning app page:

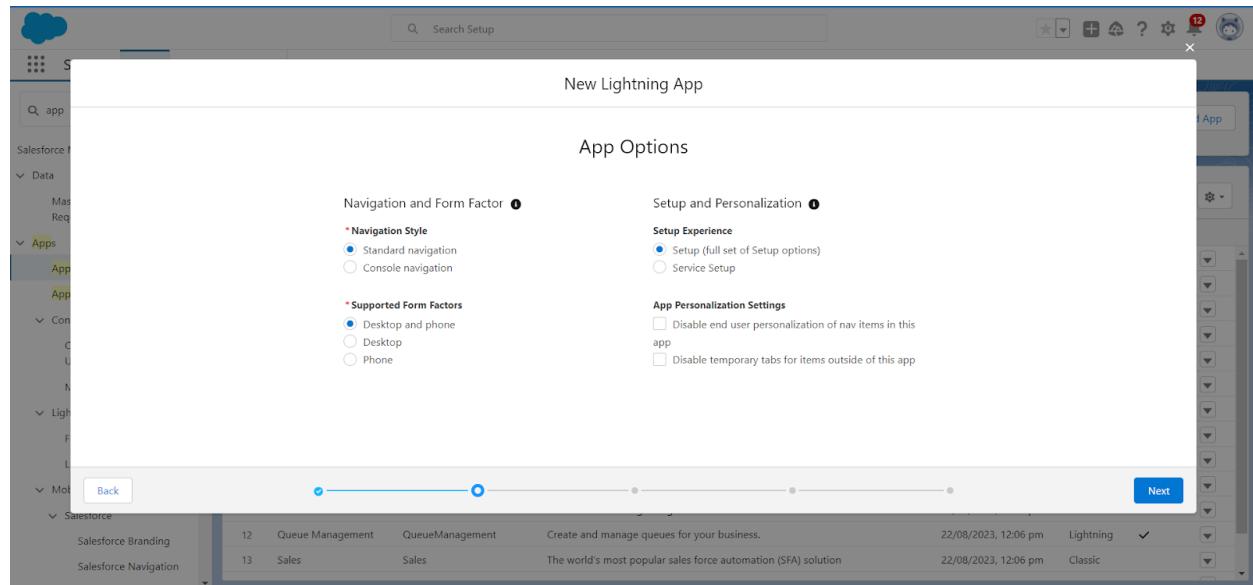
Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.

The screenshot shows the Salesforce App Manager interface. At the top, there's a search bar and a 'Search Setup' button. Below the search bar, there are tabs for 'Setup', 'Home', and 'Object Manager'. A red box highlights the 'app manager' tab. In the center, there's a section titled 'Lightning Experience App Manager' with a blue icon. To its left, another red box highlights the 'Clone Apps(Beta)' link. On the right, a red box highlights the 'New Lightning App' button. Below this section, there's a note about cloning apps and a toggle switch for 'Enable App Cloning'. A red box highlights the 'enable App Cloning' switch. At the bottom, there's a table listing 35 items, with the first few rows shown below:

App Name	Developer Name	Description	Last Modified	App Type	VL
All Tabs	Artisan	Build CRM Analytics dashboards and apps	04/12/2022, 10:13 am	Classic	✓
Analytics Studio	Insights	Build CRM Analytics dashboards and apps	04/12/2022, 10:13 am	Classic	✓
App Launcher	AppLauncher	App Launcher tabs	04/12/2022, 10:13 am	Classic	✓
BBF Solutions	LightningBox	Discover and manage business solutions designed for your industry	04/12/2022, 10:16 am	Lightning	✓
Chatter Desktop	Chatter/Desktop	Chatter Desktop is an Adobe AIR-based desktop application that lets Chatter users stay connected...	29/12/2022, 4:04 pm	Connected (Managed)	✓
Chatter Mobile for BlackBerry	Chatter,for,BlackBerry	The Salesforce.com Chatter Mobile app lets you access Chatter data on the go. Use it to view feed...	29/12/2022, 4:05 pm	Connected (Managed)	✓
College Management System	Nadeem	demo app	08/12/2022, 4:18 pm	Lightning	✓
Community	Community	Salesforce CRM Communities	04/12/2022, 10:13 am	Classic	✓
Content	Content	Salesforce CRM Content	04/12/2022, 10:13 am	Classic	✓
Data Manager	DataManager	Use Data Manager to view limits, monitor usage, and manage recipes	04/12/2022, 10:13 am	Lightning	✓

Fill the app name in app details and branding as follow

App Name : Lease Management
Developer Name : This will auto populated
Image : optional (if you want to give any image you can otherwise not mandatory)
Primary colour hex value : keep this default.
3.Then click Next >> (App option page) Set Navigation Style as Standard Navigation >> Next.



(Utility Items) keep it as default >> Next.
5. To Add Navigation Items:

Available Items

Selected Items

- Payment for tenant
- Tenants
- property

Search for the item in the (Payment for tenant, Tenants, property, lease) from the search bar and move it using the arrow button ? Next? Next.

6. To Add User Profiles:

New Lightning App

User Profiles

Choose the user profiles that can access this app.

Available Profiles

Selected Profiles

System administrator

System Administrator

Save & Finish

Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.

Fields

When we talk about Salesforce, Fields represent the data stored in the columns of a relational database. It can also hold any valuable information that you require for a specific object. Hence, the overall searching, deletion, and editing of the records become simpler and quicker.

Types of Fields

1.Standard Fields

2.Custom Fields

Standard Fields:

As the name suggests, the Standard Fields are the predefined fields in Salesforce that perform a standard task. The main point is that you can't simply delete a Standard Field until it is a non-required standard field. Otherwise, users have the option to delete them at any point from the application freely. Moreover, we have some fields that you will find common in every Salesforce application. They are,

>>Created By

>>Owner

>>Last Modified

>> Field Made During object Creation

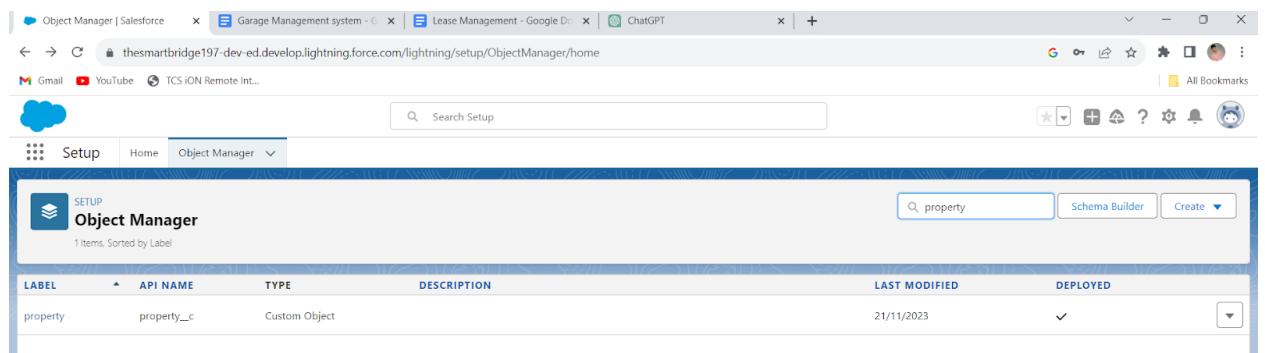
Custom Fields:

On the other side of the coin, Custom Fields are highly flexible, and users can change them according to requirements. Moreover, each organizer or company can use them if necessary. It means you need not always include them in the records, unlike Standard fields. Hence, the final decision depends on the user, and he can add/remove Custom Fields of any given form.

Creation of fields for the property object

To create fields in an object:

1. Go to setup >> click on Object Manager >> type object name(property) in search bar >> click on the object.



The screenshot shows the Salesforce Object Manager interface. At the top, there's a navigation bar with tabs for Setup, Home, and Object Manager. The main area is titled "Object Manager" and displays a table with one item. The table columns are labeled: LABEL, API NAME, TYPE, DESCRIPTION, LAST MODIFIED, and DEPLOYED. The single row shows: property, property_c, Custom Object, 1 items. Sorted by Label, 21/11/2023, and a checkmark in the Deployed column. There are also "Schema Builder" and "Create" buttons at the top right of the table.

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
property	property_c	Custom Object	1 items. Sorted by Label	21/11/2023	✓

2. Now click on “Fields & Relationships” >> New

The screenshot shows the Salesforce Setup interface with the following details:

- Page Header:** Gmail, YouTube, TCS iON Remote Int..., All Bookmarks
- Setup Navigation:** Setup, Home, Object Manager
- Object Manager:** property
- Left Sidebar:** Details, 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.
- Main Content:** Fields & Relationships table with 8 items, sorted by Field Label.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address__c	Long Text Area(32768)		
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Name	Name__c	Text(25)		
Owner	OwnerId	Lookup(User,Group)		✓
property Name	Name	Text(80)		✓
sqft	sqft__c	Text(18)		
Type	Type__c	Picklist		

3. Select Data Type as a "Text"

The screenshot shows the Salesforce Setup interface for creating a new field named 'property'. The 'Fields & Relationships' tab is active. A red box highlights the 'Text' field type option, which is described as allowing users to enter any combination of letters and numbers up to 255 characters.

Field Type	Description
Date	Allows users to enter a date and time, or pick a date from a popup calendar. When users click a date in the pop-up, that date and the current time are entered into the Date/Time field.
Date/Time	Allows users to enter an email address, which is validated to ensure proper format. If this field is specified for a contact or lead, users can choose the address when clicking Send an Email. Note that custom email addresses cannot be used for mass emails.
Email	Allows users to define locations. Includes latitude and longitude components, and can be used to calculate distance.
Geolocation	Allows users to enter any number. Leading zeros are removed.
Number	Allows users to enter a percentage number, for example, '10' and automatically adds the percent sign to the number.
Percent	Allows users to enter any phone number. Automatically formats it as a phone number.
Phone	Allows users to select a value from a list you define.
Picklist	Allows users to select multiple values from a list you define.
Picklist (Multi-Select)	Allows users to enter any combination of letters and numbers up to 255 characters on separate lines.
Text	Allows users to enter up to 131,072 characters on separate lines. Allows users to enter formatted text, add images and links. Up to 131,072 characters on separate lines. Allows users to enter any combination of letters and numbers and store them in encrypted form. Allows users to enter a local time. For example, '2:40 PM', '14:40', '14:40:00', and '14:40:50:600' are all valid times for this field. Allows users to enter any valid website address. When users click on the field, the URL will open in a separate browser window.
Text Area	Allows users to enter up to 131,072 characters on separate lines.
Text Area (Long)	Allows users to enter up to 131,072 characters on separate lines.
Text Area (Rich)	Allows users to enter formatted text, add images and links. Up to 131,072 characters on separate lines.
Text (Encrypted) <small>(1)</small>	Allows users to enter any combination of letters and numbers and store them in encrypted form.
Time	Allows users to enter a local time. For example, '2:40 PM', '14:40', '14:40:00', and '14:40:50:600' are all valid times for this field.
URL	Allows users to enter any valid website address. When users click on the field, the URL will open in a separate browser window.

4.Click on next

The screenshot shows the Salesforce Object Manager interface for creating a new field named 'property'. The left sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, etc. The main area is titled 'Step 2. Enter the details' and shows the configuration for the 'Name' field. The 'Field Label' is set to 'Name', 'Length' is 25, and 'Field Name' is also 'Name'. The 'Required' checkbox is checked. Other settings like 'Unique', 'External ID', and 'Auto add to custom report type' are shown with their respective checkboxes. A red arrow points to the 'Next' button at the top right.

. Fill the Above as following:

- Field Label: Name
- Field Name : gets auto generated
- Length : 25
- Required :check box
- Click on Next >> Next >> Save and new.

2. To create another fields in an object:

1. Go to setup >> click on Object Manager >>type object name(property) in search bar >>click on the object.
2. Now click on “Fields & Relationships” >>New
3. Select Data type as a “Long Text” and Click on Next
4. Fill the Above as following:
 - Field Label : Address
 - Field Name : gets auto generated
 - Click on Next >> Next >> Save and new.

3. To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(property) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “picklist” and Click on Next
8. Fill the Above as following:
 - Field Label : Type
 - Field Name : gets auto generated
 - Enter values, with each value separated by a new line
 - Enter these values
1BHK
2BHK
3BHK
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

9. Go to setup >> click on Object Manager >> type object name(property) in search bar >> click on the object.
10. Now click on “Fields & Relationships” >> New
11. Select Data type as a “Text” and Click on Next
12. Fill the Above as following:
 - Field Label : sfqt
 - Field Name : gets auto generated
 - Length : 18
 - Click on Next >> Next >> Save.

Creation of fields for the Tenant object

1. Go to setup >> click on Object Manager >> type object name(Tenant) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Email” and Click on Next
4. Fill the Above as following:
 - Field Label : Email
 - Field Name : gets auto generated
 - Click on required check box
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

1. Go to setup >> click on Object Manager >> type object name(Tenant) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “phone” and Click on Next
4. Fill the Above as following:
 - Field Label : Phone
 - Field Name : gets auto generated
 - Click on Next >> Next >> Save and new.

To create another fields in an object:

5. Go to setup >> click on Object Manager >> type object name(Tenant) in search bar >> click on the object.
6. Now click on “Fields & Relationships” >> New
7. Select Data type as a “picklist” and Click on Next
8. Fill the Above as following:
 - Field Label : status
 - Field Name : gets auto generated
 - Enter values, with each value separated by a new line
 - Enter these values

Stay
Leaving
- Click on Next >> Next >> Save

Creation of fields for the Lease object

1. Go to setup >> click on Object Manager >> type object name(Lease) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Date” and Click on Next
4. Fill the Above as following:
 - Field Label : start date

- Field Name : gets auto generated
- Click on Next >> Next >> Save and new.

To create another fields in an object:

- 1.Go to setup >> click on Object Manager >> type object name(Lease) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Date” and Click on Next
4. Fill the Above as following:

- Field Label : End date
- Field Name : gets auto generated
- Click on Next >> Next >> Save and new.

Creation of fields for the Payment for tenant object

- 1.Go to setup >> click on Object Manager >> type object name(Payment for tenant) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Date” and Click on Next
4. Fill the Above as following:

- Field Label : Payment date
- Field Name : gets auto generated
- Click on Next >> Next >> Save and new.

To create another fields in an object:

- 1.Go to setup >> click on Object Manager >> type object name(Payment for tenant) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “Number” and Click on Next
4. Fill the Above as following:

- Field Label : Amount
- Length :18

- Field Name : gets auto generated
- Click on Next >> Next >> Save and new.

To create another fields in an object:

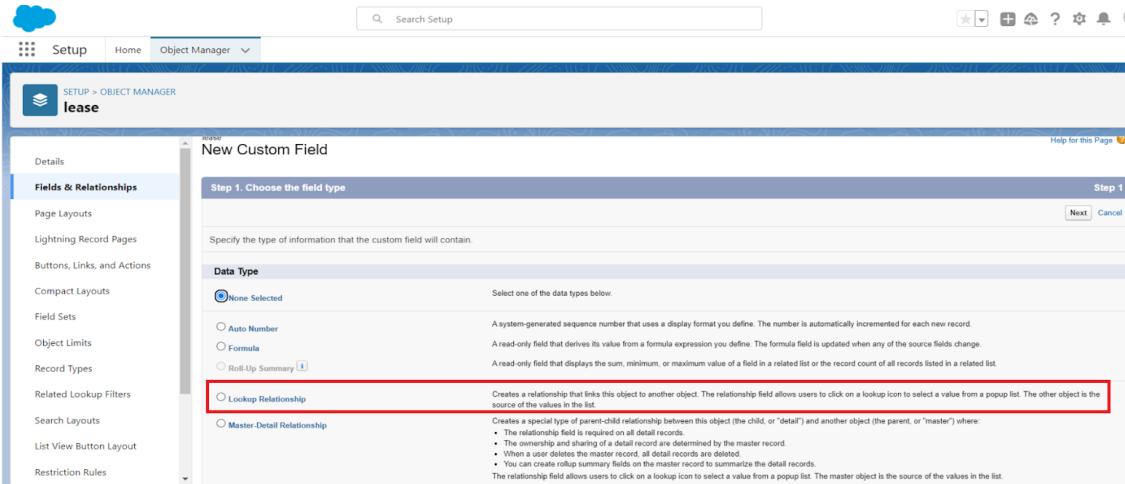
- 1.Go to setup >> click on Object Manager >> type object name(Payment for tenant) in search bar >> click on the object.
2. Now click on “Fields & Relationships” >> New
3. Select Data type as a “picklist” and Click on Next
4. Fill the Above as following:

- Field Label : check for payment
- Field Name : gets auto generated
- Enter values, with each value separated by a new line
- Enter these values
Paid
Not paid
- Click on Next >> Next >> Save and new.

Creation of Lookup fields

Creation of Lookup Field on Lease Object :

1. Go to setup>> click on Object Manager >> type object name(Lease) in the search bar >> click on the object.



2. Now click on “Fields & Relationships” >> New
3. Select lookup relationship
4. Select the related object “ property” and click next.
5. Field Name : property
6. Field label : Auto generated
7. Next >> Next >> Save.

Creation of Lookup Field on Payment Object :

8. Go to setup >> click on Object Manager >> type object name(payment) in the search bar >> click on the object.
9. Now click on “Fields & Relationships” >> New
10. Select lookup relationship
11. Select the related object “ Tenant” and click next.
12. Field Name : Tenant
13. Field label : Auto generated
14. Next >> Next >> Save.

Creation of Lookup Field on Payment for tenant Object :

15. Go to setup>> click on Object Manager >> type object name(property) in the search bar >> click on the object.
16. Now click on “Fields & Relationships” >> New
17. Select masterdetail relationship
18. Select the related object “ property” and click next.
19. Field Name : property

20. Field label : Auto generated

21. Next >> Next >> Save.

Validation rule

Validation rules are applied when a user tries to save a record and are used to check if the data meets specified criteria. If the criteria are not met, the validation rule triggers an error message and prevents the user from saving the record until the issues are resolved.

Email Templates

We use email templates to increase productivity and ensure consistent messaging. Email templates with merge fields let you quickly send emails that include field data from Salesforce records like contacts, leads, or opportunities. You can use email templates when emailing groups of people—with list email or mass email—or just one person.

Salesforce email templates are the easiest way to get your emails done. They help you create and send quick emails that include merge fields from Salesforce records like Contacts, Leads, Opportunities, or Custom Objects.

When you have a large number of contacts or leads in Salesforce, it can be difficult to keep track of who needs to be notified about new information. Salesforce email templates allow you to combine all these contacts or leads into one email and then send it out simultaneously.

Create Email Template For Tenant Leaving

To create Email Template:

1. Go to setup in quick find box
enter email template >> click on
classic Email Template.
2. Click on >> New Email Template====>Choose text

Folder : Unfiled public Classic Email templates

Click on available for use

3. Email Template Name is
“tenant leaving”

4. Template Unique Name : Auto populated
5. Subject : ” request for approve the leave”
6. Email body :

Dear {!Tenant__c.CreatedBy},

Please approve my leave

7. Save

Create Email Template For Leave Approved

To create Email Template:

1. Go to setup in quick find box enter email template >> click on classic Email Template.

2. Click on >> New Email Template====>Choose text

Folder : Unfiled public Classic Email templates

Click on available for use

3. Email Template Name is “Leave approved”

4. Template Unique Name : Auto populated

5. Subject : ” Leave approved”

6. Email body :

dear{!Tenant__c.Name},

I hope this message finds you well. I am writing to inform you that I have received your email confirming the approval of my leave request. I would like to express my gratitude for considering and approving my time off.

your leave is approved. You can leave now

7. Save

Create Email Template For rejection for leave

To create Email Template:

1. Go to setup in quick find box
enter email template >> click on
classic Email Template.

2. Click on >>New Email Template====>Choose text

Folder : Unfiled public Classic Email templates

Click on available for use

3. Email Template Name is “Leave rejected”

4. Template Unique Name : Auto populated

5. Subject : ” Leave rejected”

6. Email body :

Dear {!Tenant__c.Name},

I hope this email finds you well. Your contract has not ended. So we can't approve your

leave

your leave has rejected

7. Save

Create Email Template For Monthly payment

To create Email Template:

1. Go to setup in quick find box
enter email template >> click on
classic Email Template.

2. Click on >> New Email Template====>Choose text

Folder : Unfiled public Classic Email templates
Click on available for use

3. Email Template Name is
“Tenant Email”

4. Template Unique Name : Auto populated
5. Subject : ” Urgent: Monthly Rent Payment Reminder”
6. Email body :

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.

7. Save

Create Email Template For successful payment

To create Email Template:

1. Go to setup in quick find box
enter email template >> click on
classic Email Template.
2. Click on >> New Email Template====>Choose text

Folder : Unfiled public Classic Email templates
Click on available for use

3. Email Template Name is
“tenant payment”

4. Template Unique Name : Auto populated
5. Subject : ” Confirmation of Successful Monthly Payment”
6. Email body :

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.

7. Save

Approval Process

What Is Approval Process In Salesforce?

The Approval Process is an automated process that an org uses to approve records in Salesforce. For example, When In the organization, someone is not able to decide a particular thing then he can ask someone else for approval. So, for such frequent cases or situations, one can define the approval process. So, Users can take benefit of such an approval process whenever needed.

Records submitted for approval are approved by the user(s) in the organization. These users are called Approvers. A single Approval process is bound to a single object because when a rule is defined, this object influences the fields that will be available to set the criteria.

An approval process consists of finalizing the basic properties of the approval process (as shown in the below image), approval steps, and actions to be executed.

Actions In Salesforce Approval Process

There are 4 actions present except the approval steps which complete an approval process, following are:

1. Initial Submission Actions

Initial submission actions are the actions that occur when a user first submits a record for approval. By default, an action to lock the record runs automatically on initial submission. Initial submission actions can include any approval actions such as email alerts, field updates, tasks, or outbound messages.

2. Final Approval Actions

Final Approval actions are the actions that occur when a record is approved from all the approval steps. It also locks or unlocks the record, as specified. It can include any approval actions such as email alerts, field updates, tasks, or outbound messages.

3. Final Rejection Actions

Final Rejection actions are the actions that occur when a record is rejected from any of the approval steps. It also locks or unlocks the record, as specified. It can include any approval actions such as email alerts, field updates, tasks, or outbound messages.

4. Recall Actions

Recall actions are the actions that occur when a record is recalled after submission for approval. It can include any approval actions such as email alerts, field updates, tasks, or outbound messages.

Apex Trigger

Use case:

The tenant and property are in a master-detail relationship, wherein each tenant is associated with only one property. When a tenant attempts to create a new record with an existing property, an error should be displayed, indicating that a tenant can have only one property.

Write a code to achieve this requirement using Salesforce developer skills to fulfill the Managers requirement.

FLOWs

What is a flow ?

In Salesforce, a flow is a tool that automates complex business processes. Simply put, it collects data and then does something with that data. Flow Builder is the declarative interface used to build individual flows.

Flows fall into five categories:

Screen Flows: These are flows that have a UI element and require input from users. These types of flows are either launched as an action or embedded as an element on a Lightning page.

Schedule-Triggered Flows: These autolaunched flows launch at a specified time and frequency for each record in a batch, and they run in the background.

Autolaunched Flows: Run automated tasks with this flow type. Autolaunched flows can be invoked from other flows (subflow), process builder, from within an Apex class, from a set schedule, from record changes, or from platform events.

Record-Triggered Flows: These autolaunched flows run in the background either before a record save or after the record is saved when a record is created, updated, or deleted.

Platform Event-Triggered Flows: When a platform event message is received, these autolaunched flows run in the background.

When and why should we use a flow

If you need to generate a new automated business process, or user guided experience that does not reach the complexity threshold for Apex Code, then flow is your go-to tool. If you are modifying an existing process that was built with Process Builder or workflow, then you should consider a number of factors when deciding whether to modify the existing process or migrate it to Flow. Flows are able to create, edit, and delete records in Salesforce, send emails, show relevant data and gather input from users, and generate outbound messages.

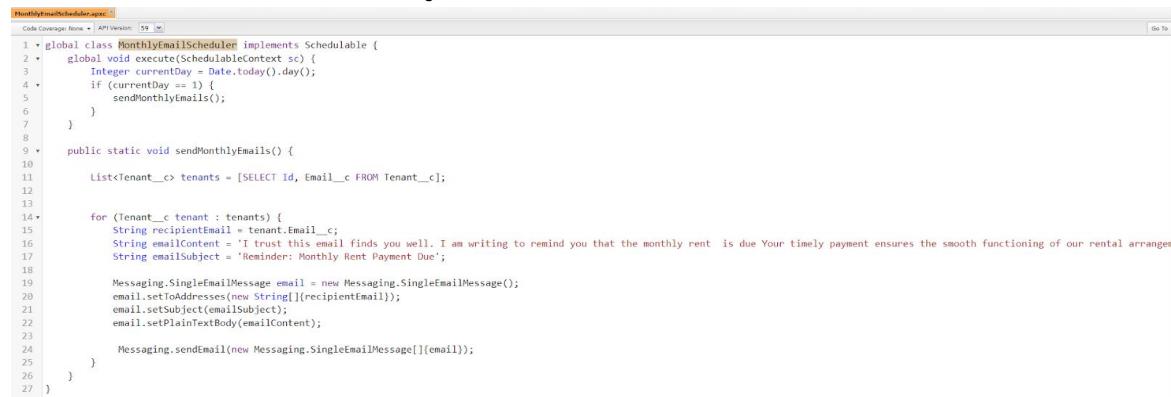
Schedule class :

Create an Apex Class

1. To create a new Apex Class follow the below steps:

Click on the file >> New >> Apex Class.

2. Enter class name as MonthlyEmailScheduler.



```
1 global class MonthlyEmailScheduler implements Schedulable {
2     global void execute(SchedulableContext sc) {
3         Integer currentDay = Date.today().day();
4         if (currentDay == 1) {
5             sendMonthlyEmails();
6         }
7     }
8
9     public static void sendMonthlyEmails() {
10
11         List<Tenant__c> tenants = [SELECT Id, Email__c FROM Tenant__c];
12
13
14         for (Tenant__c tenant : tenants) {
15             String recipientEmail = tenant.Email__c;
16             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 arrangements.';
17             String emailSubject = 'Reminder: Monthly Rent Payment Due';
18
19             Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
20             email.setToAddresses(new String[]{recipientEmail});
21             email.setSubject(emailSubject);
22             email.setPlainTextBody(emailContent);
23
24             Messaging.sendEmail(new Messaging.SingleEmailMessage[]{email});
25
26         }
27     }
}
```

Apex logic:

```
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});
}
}
}

```

Save the code.

Schedule Apex class

1. Enter Apex class in quick find box
2. Select schedule Apex

The screenshot shows the Salesforce Setup interface under 'Custom Code'. In the search bar, 'apex class' is typed. Below the search bar, 'Apex Classes' is selected. A message says 'Didn't find what you're looking for? Try using Global Search.' The main area is titled 'Apex Classes' with a sub-header 'Apex Code is an object oriented programming language that allows developers to develop on-demand business applications on the Lightning Platform.' A green box at the top right says 'Percent of Apex Used: 0.07%' with a note about code coverage. Below it, there's a link to 'Estimate your organization's code coverage'. The table lists four Apex classes: ContactCreator, CreateAccount, MonthlyEmailScheduler, and TestHandler. The 'Schedule Apex' button in the header is highlighted with a red box and a yellow arrow pointing to it.

3. Enter job Name : MonthlyEmailScheduler
4. Apex class : MonthlyEmailScheduler
5. Frequency : Monthly==>select on day 1
6. Start date : 04/12/2023
7. End date : 04/01/2024
8. Preferred start time : 09:00 am
9. save

Schedule Apex

Schedule an Apex class that implements the 'Schedulable' interface to be automatically executed on a weekly or monthly interval.

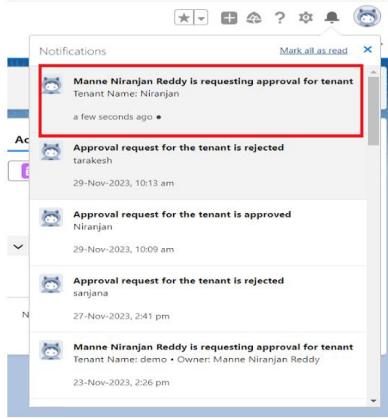
The dialog box has 'Save' and 'Cancel' buttons at the top. It contains fields for 'Job Name' (MonthlyEmailScheduler) and 'Apex Class' (MonthlyEmailScheduler). Below these, the 'Schedule Apex Execution' section includes 'Frequency' (set to 'Monthly'), 'Start' (04/12/2023), 'End' (04/01/2024), and 'Preferred Start Time' (09:00 am). A note below says 'Exact start time will depend on job queue activity.' At the bottom are 'Save' and 'Cancel' buttons.

Testing the approval process

The screenshot shows a CRM interface for a tenant named 'Niranjan'. The 'Details' tab is selected, displaying fields for Tenant Name, Phone, Email, Status (highlighted with a red box), and Property. Below these are 'Created By' and 'Last Modified By' sections. On the right, an 'Activity' sidebar is open, showing a context menu with options like 'New Opportunity', 'Submit for Approval' (highlighted with a red arrow), 'Delete', 'Printable View', 'Edit', and 'Clone'. A sub-section titled 'Upcoming & Overdue' indicates no activities.

Enter any comment and click on submit

A modal dialog titled 'Submit for Approval' is displayed. It contains a 'Comments' text area with the placeholder text 'Leaving'. At the bottom are 'Cancel' and 'Submit' buttons. The footer of the dialog shows the user 'Manne Niranjan Reddy' and the date '05/12/2023, 10:18 am'.

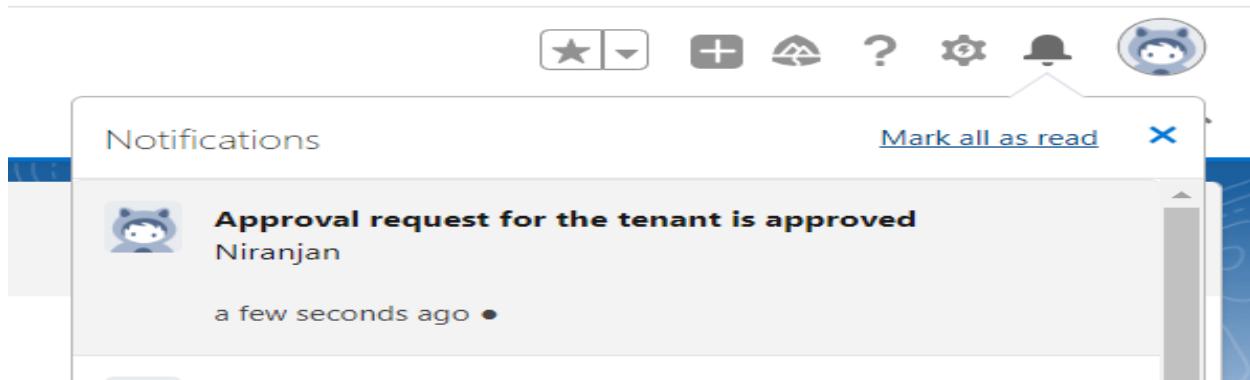


Click on that notification

A screenshot of a 'Tenant Approval' page. At the top, it says 'Approval Request' and 'Tenant Approval' with a status of 'Pending'. Below that, there are four columns: 'Submitter' (Manne Nirjanan Reddy), 'Date Submitted' (05-Dec-2023), 'Actual Approver' (Manne Nirjanan Reddy), and 'Assigned To' (Manne Nirjanan Reddy). On the right, there are three buttons: 'Approve' (highlighted with a red box), 'Reject', and 'Reassign'. The page is divided into sections: 'Details' (Approval Details: Tenant Name - Nirjanan) and 'Submitter Comments' (Comments from Manne Nirjanan Reddy: Leaving, 05-Dec-2023, 10:22:01 am).

click on approve

Give any comment and submit



You will find notification like this and you will get an email check

Note: similarly do for reject also you will get mail and notification

