

# **GARAGE MANAGEMENT SYSTEM**

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## **INTRODUCTION**

Project Overview

### **1.INTRODUCTION**

1.1 Project Garage Management System


The Garage Management System (GMS) is a software tool designed to improve the efficiency of automotive repair shops. It manages customer details, service records, billing, and job tracking in a structured way. By reducing manual work and errors, it saves time and increases productivity. With its user-friendly interface, GMS ensures better service quality and customer satisfaction.

## DEVELOPMENT PHASE

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First name	Last name
<input type="text" value="Dharshini"/>	<input type="text" value="G"/>
Job title	Work email
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Company	Country/Region
<input type="text" value="A.V.P College of Arts"/>	<input type="text" value="India"/>

Your org may be provisioned on or migrated to Hyperforce, Salesforce's public cloud infrastructure.


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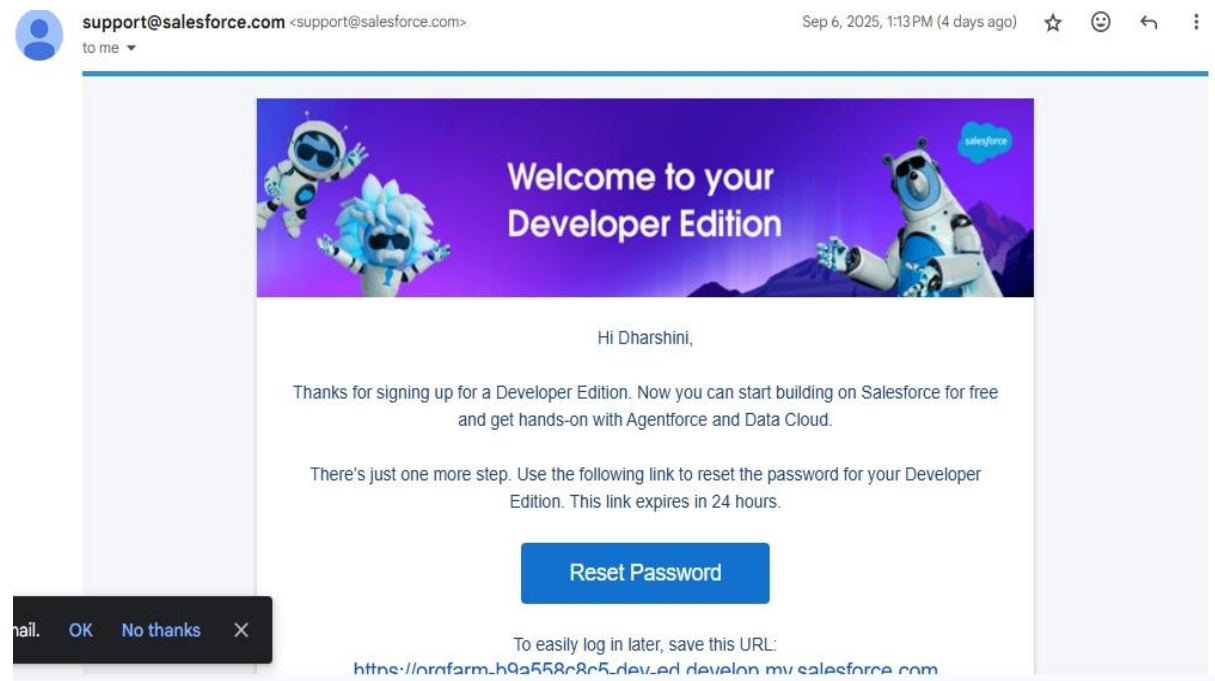
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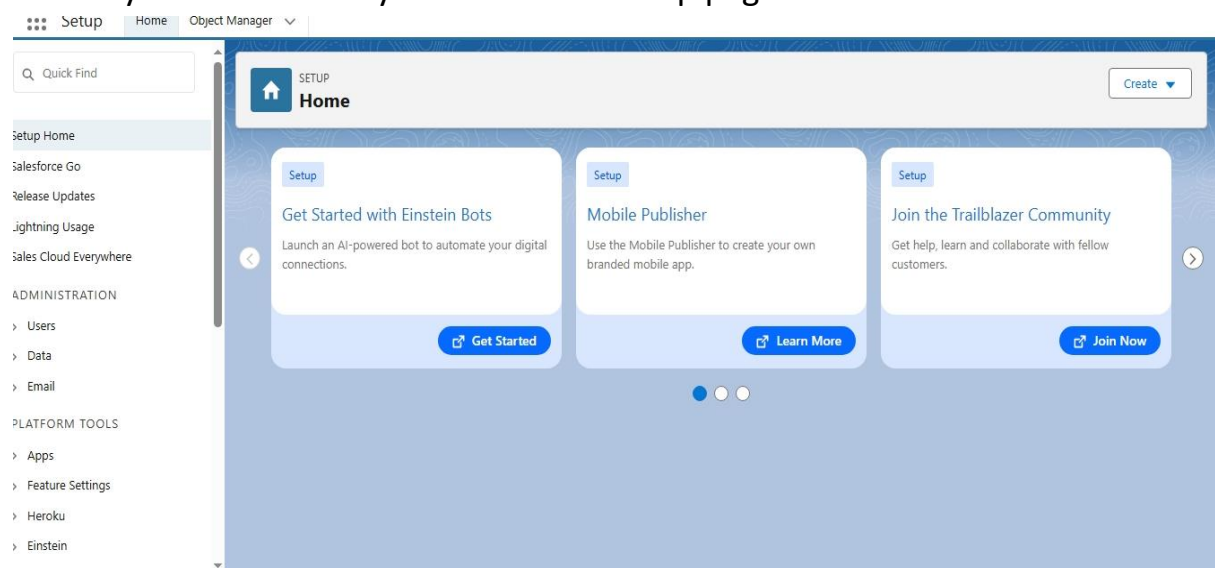
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1. Give the details for requirement fields
2. Then click the “Sign me up”



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



**Create the objects:**

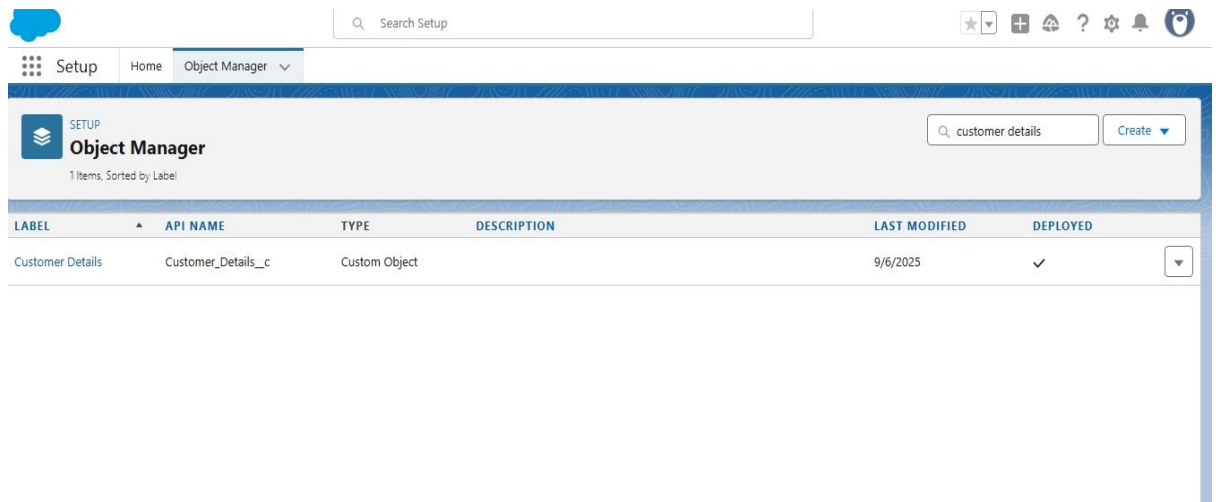
- Create the customer detail object

The screenshot displays the 'New Custom Object' page in Salesforce Setup. The 'Custom Object Information' section is active, showing the following details:

- Label:** Customer Details (Example: Account)
- Plural Label:** Customer Details (Example: Accounts)
- Object Name:** Customer\_Details (Example: Account)
- Description:** (Empty text area)

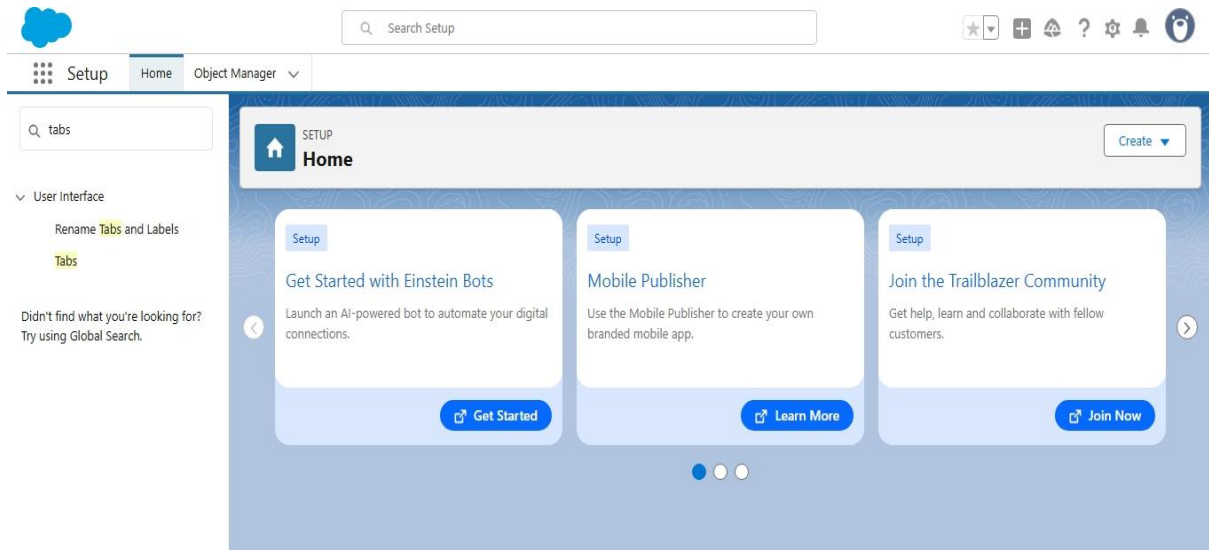
A message at the top indicates that permissions are disabled by default and provides links for more information.

- From the setup page >> click on object manager>>click on create>>click on custom object
- Enter the label name >> Customer Details  
Plural label name >> Customer Details  
Enter Record Name Label and Format  
Record Name >> Customer Name  
Data Type >> Text  
Click on Allow reports and Track Field History,  
Allow search >> Save.
- You will see your created object in object manager



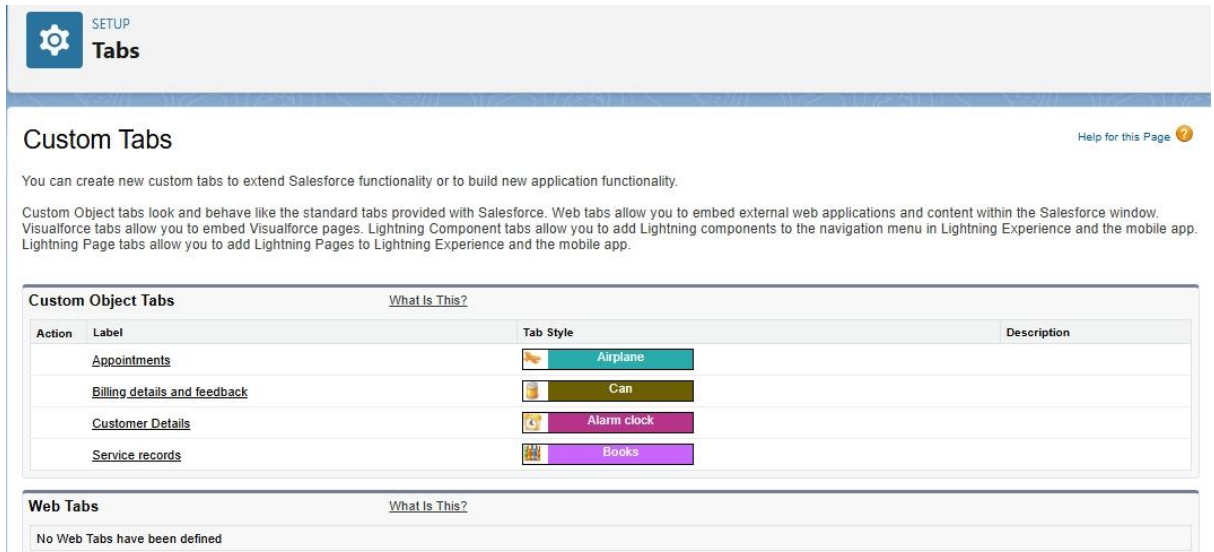
- Follow the same procedure to create the objects named Appointment, Service records and Billing details and feedback.

## Create the Tabs :



- Type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)
- Select Object(Customer Details) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab .

- Make sure that the Append tab to users' existing personal customizations is checked.
- Click save



**SETUP**  
**Tabs**

## Custom Tabs Help for this Page

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Action	Label	Tab Style	Description
	<a href="#">Appointments</a>	Airplane	
	<a href="#">Billing details and feedback</a>	Can	
	<a href="#">Customer Details</a>	Alarm clock	
	<a href="#">Service records</a>	Books	

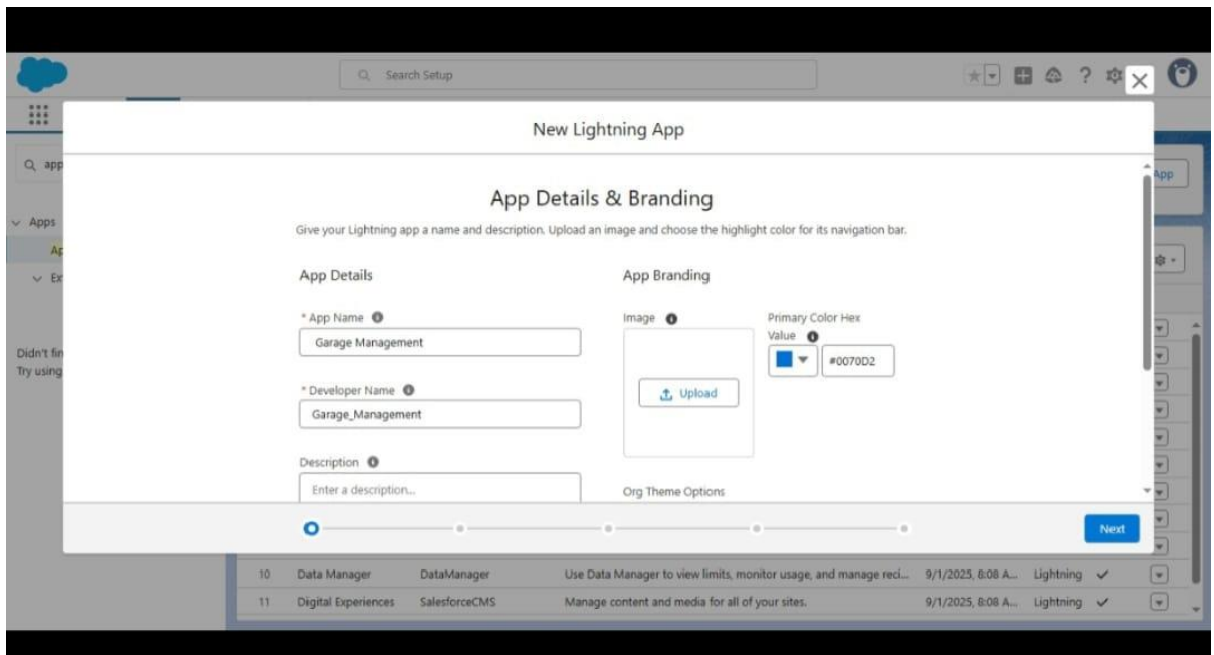
**Web Tabs** What Is This?

No Web Tabs have been defined

- Now create the Tabs for the remaining Objects, they are “ Appointments, Service records,Billing details and feedback”.
- Follow the same steps as mentioned in Activity -1

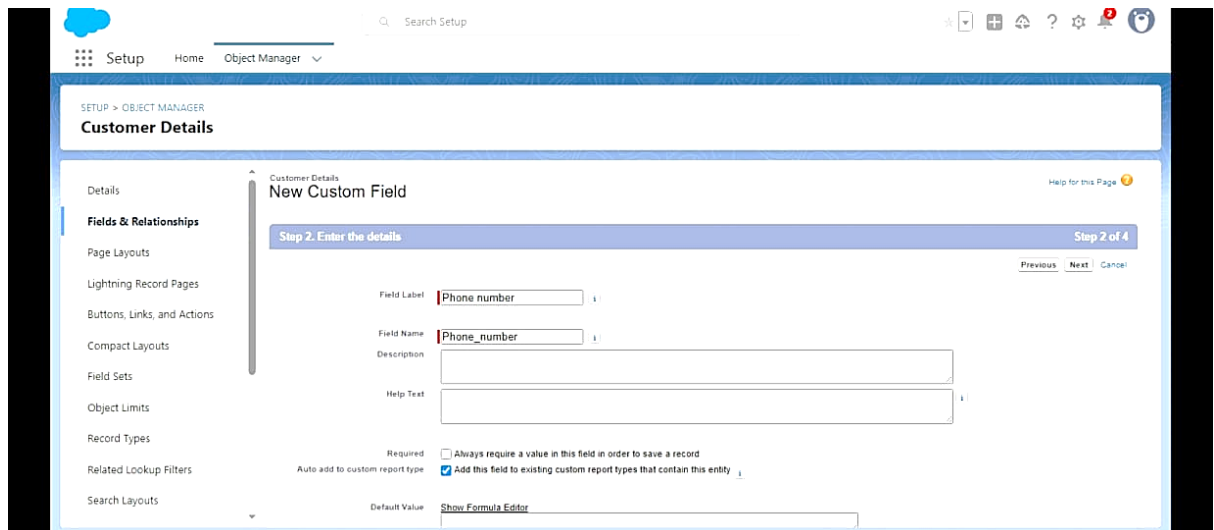
## Create the Lightning app

- Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.
- Fill the app name in app details as Garage Management
- Application >> Next >> (App option page) keep it as default >> Next >> (Utility Items) keep it as default >> Next.



- Then add the navigations items

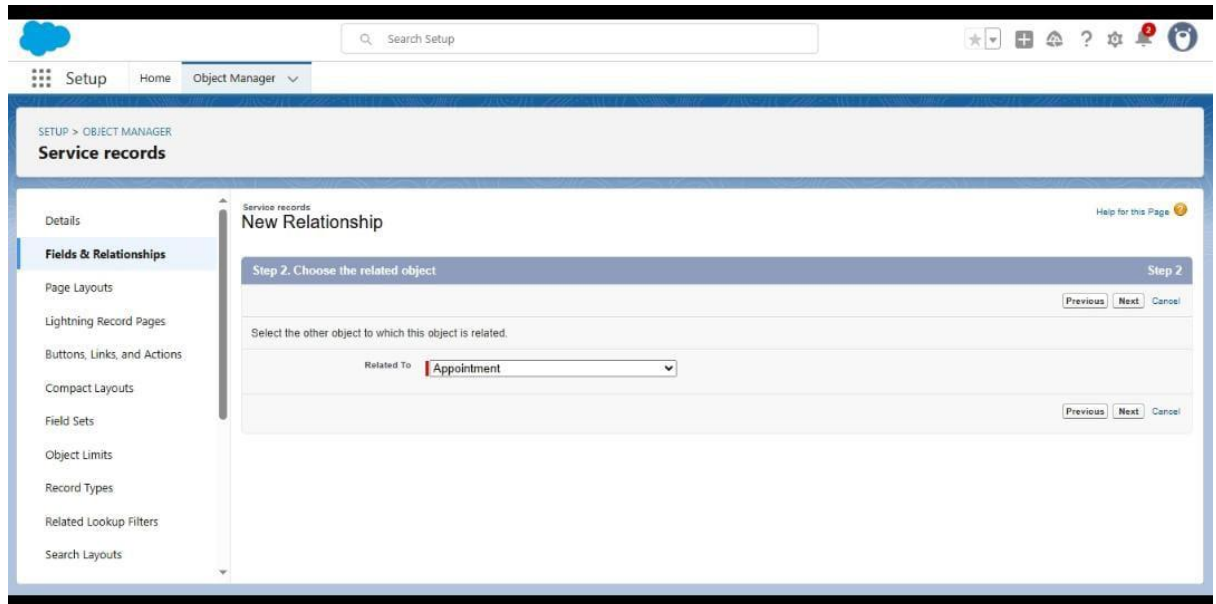
## Create the Fields :



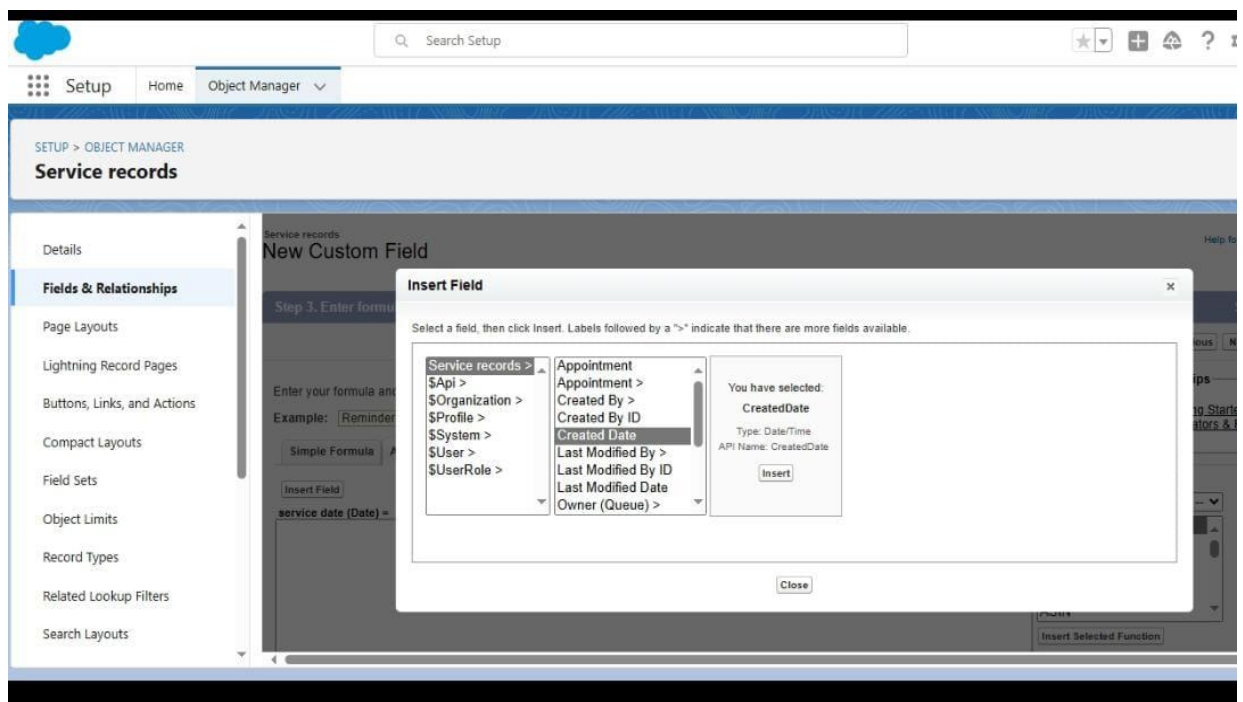
- click on Object Manager >> type object name(Customer Details) in search bar >> click on the object.
- Click on Field & Relationships>>New
- Select the data type as “Phone”
- Field Label: Phone number



- Field Name : gets auto generated then Click on Next >> Next >>save & new
- Same like as create the object named “Gmail”
- Then Create the Lookup Field on Service records Object
- Select “Look-up relationship” as data type and click Next
- Select the related object “ Appointment ” and click next



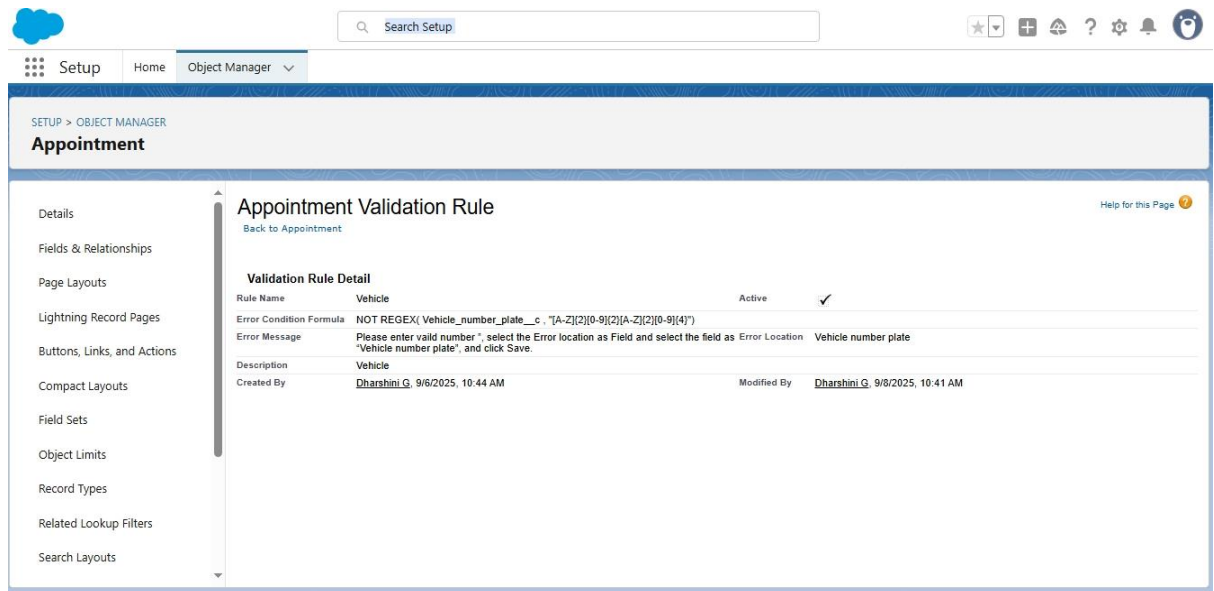
- Make it a required field so click on Required.
- Then create the Checkbox Field, date fields, currency fields, text fields, picklist fields and formula field for service records object



**Create a Validation Rule :**



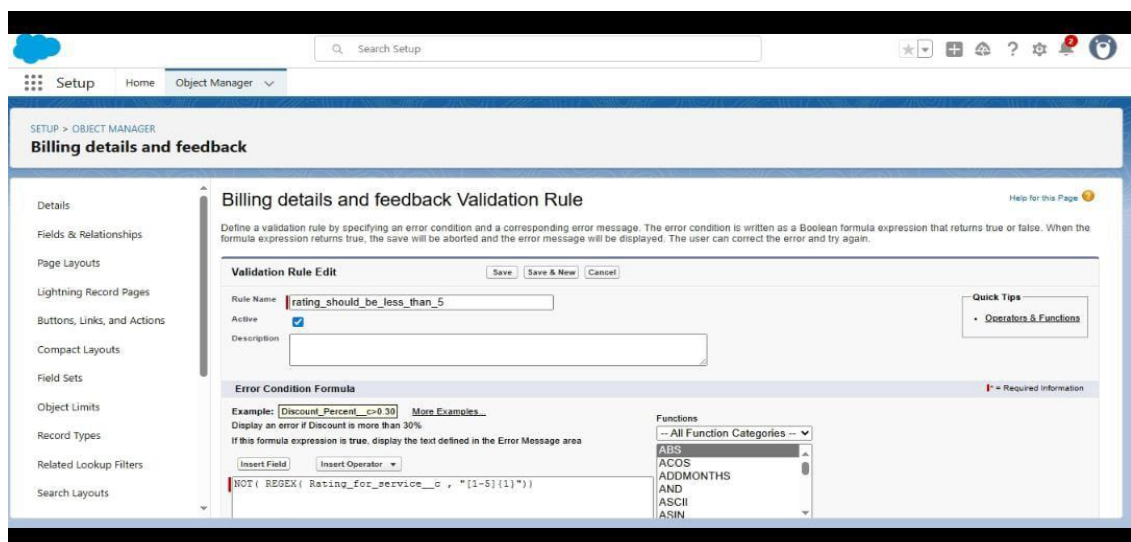
- In Appointment object click the validation rules
- Enter the Rule name as “ Vehicle ”.
- Insert the Error Condition Formula as : - NOT(REGEX( Vehicle\_number\_plate\_\_c , "[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}"))



The screenshot shows the Salesforce Setup interface. The left sidebar contains navigation links: Setup, Home, and Object Manager. The main content area is titled "Appointment Validation Rule" and includes a "Back to Appointment" link. The "Validation Rule Detail" section shows the following information:

Validation Rule Detail		Active	✓
Rule Name	Vehicle		
Error Condition Formula	NOT REGEX( Vehicle_number_plate__c , "[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}")		
Error Message	Please enter valid number , select the Error location as Field and select the field as Error Location Vehicle number plate "Vehicle number plate", and click Save.		
Description	Vehicle		
Created By	Dharshini G. 9/6/2025, 10:44 AM	Modified By	Dharshini G. 9/8/2025, 10:41 AM

- Same as To create a validation rule to an Billing details and feedback Object
- Enter the Rule name as “ rating\_should\_be\_less\_than\_5”.
- Insert the Error Condition Formula as : NOT( REGEX( Rating\_for\_service\_\_c , "[1-5]{1}"))
- Click save.



The screenshot shows the Salesforce Setup interface for creating a validation rule for the "Billing details and feedback" object. The left sidebar contains navigation links: Setup, Home, and Object Manager. The main content area is titled "Billing details and feedback Validation Rule" and includes a "Help for this Page" link. The "Validation Rule Edit" section shows the following information:

Validation Rule Edit		Save	Save & New	Cancel
Rule Name	rating_should_be_less_than_5			
Active	<input checked="" type="checkbox"/>			
Description				
Error Condition Formula				
<p>Example: <code>Discount_Percent__c &gt; 30</code> More Examples...</p> <p>Display an error if Discount is more than 30%</p> <p>If this formula expression is true, display the text defined in the Error Message area</p> <p>Insert Field Insert Operator</p> <p>NOT( REGEX( Rating_for_service__c , "[1-5]{1}"))</p>				
Functions				
<p>-- All Function Categories --</p> <p>ABS</p> <p>ACOS</p> <p>ADDMONTHS</p> <p>AND</p> <p>ASCII</p> <p>ASIN</p>				

Create a Duplicate rules :

- In Quick find box search for Matching rule.
- Give the Rule name : Matching customer details
- Define the match criteria as
  - 1.Gmail
  - 2.Phone number
- Click save
- Then click on the Activation

The screenshot shows the Salesforce Setup interface. In the left sidebar, the 'Setup' menu is open, and 'Matching Rules' is selected under 'Duplicate Management'. The main content area is titled 'Matching Rules'. The 'Rule Name' is 'Matching customer details' and the 'Unique Name' is 'Matching\_customer\_details'. The 'Matching Criteria' section is expanded, showing a table with columns for 'Field', 'Matching Method', and 'Match Blank Fields'. The table contains two rows: 'Gmail' with 'Exact' matching method, and 'Phone number' with 'Exact' matching method. The 'Match Blank Fields' column has checkboxes for each row, and the 'AND' column has checkboxes for each row. The 'Previous', 'Save', and 'Cancel' buttons are at the bottom right.

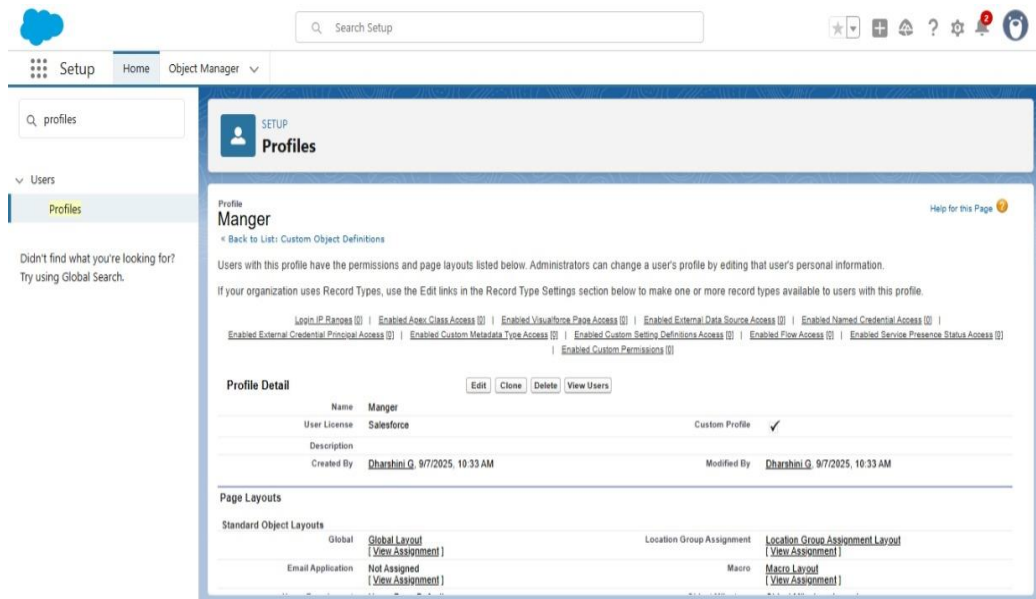
- Now create a Duplicate rule for Customer details object

The screenshot shows the Salesforce Setup interface for 'Duplicate Rules'. In the left sidebar, the 'Setup' menu is open, and 'Duplicate Rules' is selected under 'Duplicate Management'. The main content area is titled 'Duplicate Rules'. The 'Rule Details' section is expanded, showing the 'Rule Name' as 'Customer Detail duplicate' and the 'Object' as 'Customer Details'. The 'Record-Level Security' section has 'Enforce sharing rules' selected. The 'Actions' section is expanded, showing 'Action On Create' with 'Allow', 'Alert', and 'Report' selected, and 'Action On Edit' with 'Allow' selected. The 'Alert Text' field is 'Use one of these records?'. The 'Matching Rules' section is expanded, showing 'Compare Customer Details With' as 'Customer Details' and 'Matching Rule' as 'Matching customer details'. The 'Previous', 'Save', and 'Cancel' buttons are at the bottom right.

## Manager profile

### To create a new profile

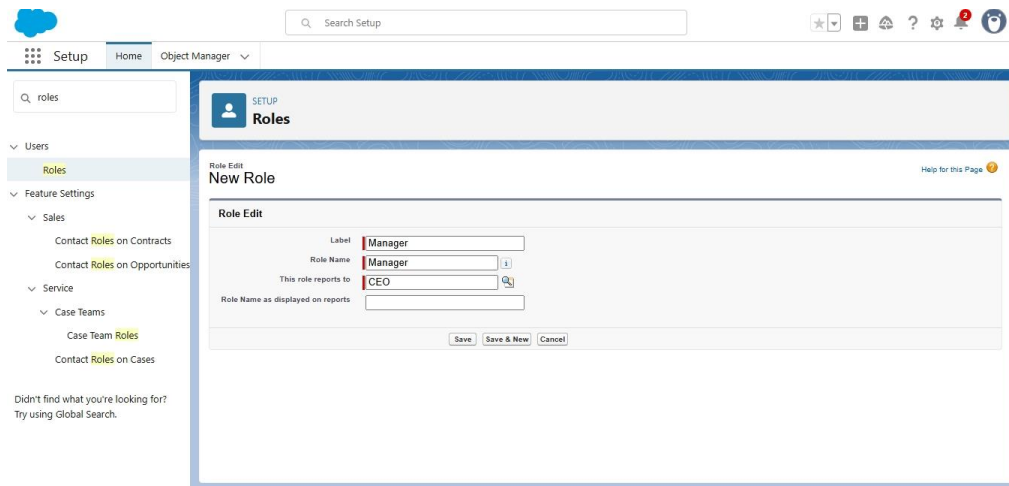
- Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard User) >> enter profile name (Manager) >> Save.
- While still on the profile page, then click Edit.



- Scroll down to Custom Object Permissions and Give access permissions for Appointments, Billing details and feedback , service records and customer details object.
- Then create a sales person profile like as Manager profile.

### Create Manager Role

- In quick find >> Search for Roles >> click on set up roles.
- Click on Expand All and click on add role under whom this role works.
- Give Label as “Manager” and Role name gets auto populated. Then click on Save.

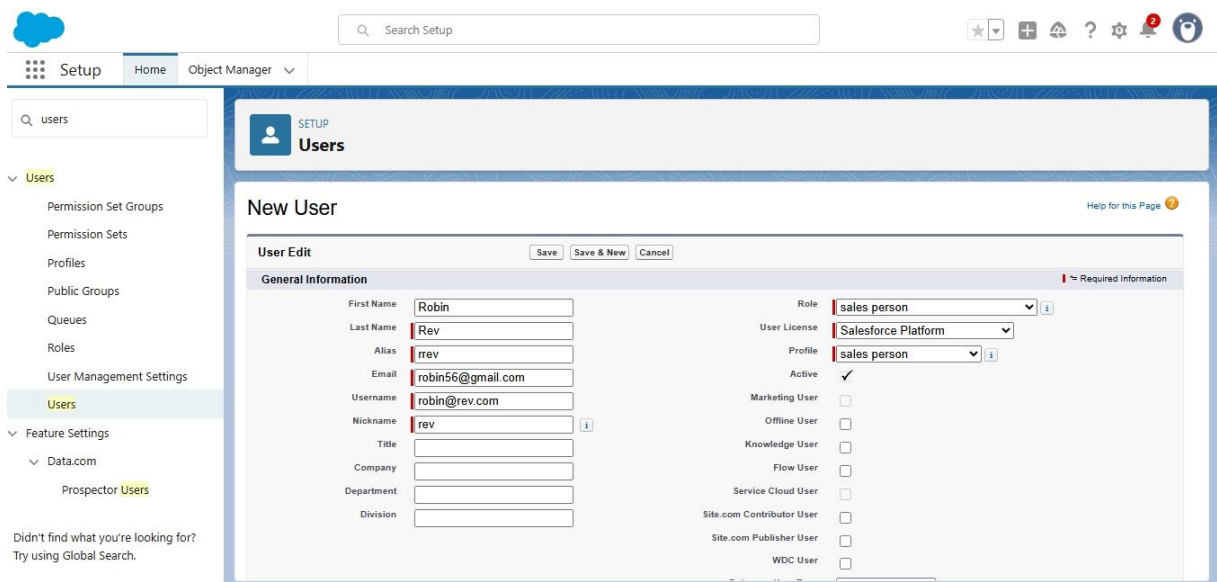


The screenshot shows the Salesforce Setup interface with the 'Roles' page selected. The left sidebar contains a search bar with 'roles' and a list of navigation items: Users, Roles (highlighted), Feature Settings, Sales, Service, and Case Teams. The main content area is titled 'New Role' and contains a 'Role Edit' form. The form fields are: Label (Manager), Role Name (Manager), This role reports to (CEO), and Role Name as displayed on reports. At the bottom of the form are buttons for 'Save', 'Save & New', and 'Cancel'.

- Create the another rule under the manager then give the lable name as “sales person” and click save

## Create the User :

- Go to setup >> type users in quick find box >> select users >> click New user.
- Fill the fields



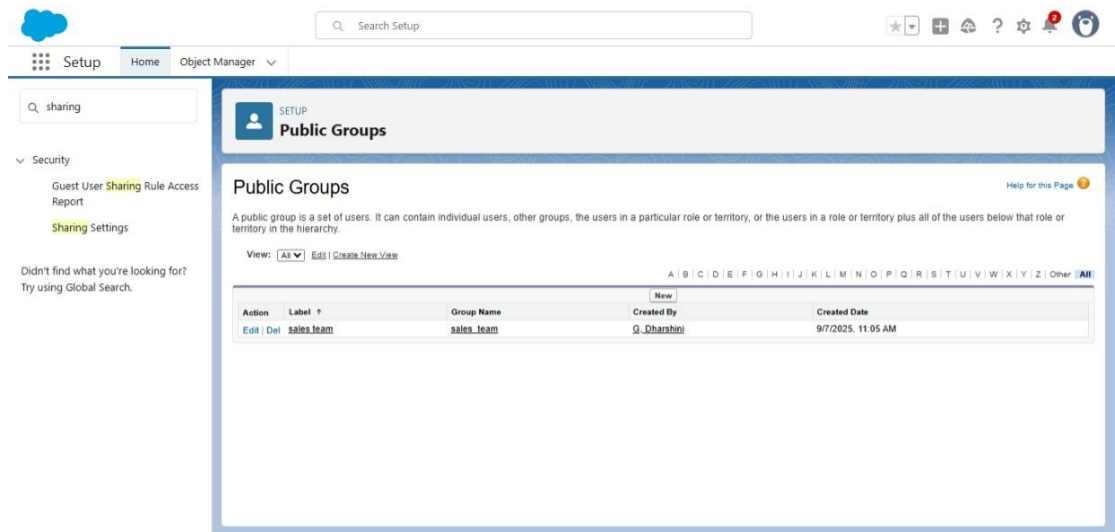
The screenshot shows the Salesforce Setup interface with the 'Users' page selected. The left sidebar contains a search bar with 'users' and a list of navigation items: Users (highlighted), Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, Feature Settings, Data.com, and Prospectors. The main content area is titled 'New User' and contains a 'User Edit' form. The form is divided into two sections: 'General Information' and 'User License'. The 'General Information' section includes fields for First Name (Robin), Last Name (Rev), Alias (rrev), Email (robin56@gmail.com), Username (robin@rev.com), Nickname (rev), Title, Company, Department, and Division. The 'User License' section includes a dropdown for Role (sales person), a dropdown for User License (Salesforce Platform), a dropdown for Profile (sales person), and a checkbox for Active (checked). There are also checkboxes for Marketing User, Offline User, Knowledge User, Flow User, Service Cloud User, Site.com Contributor User, Site.com Publisher User, and WDC User. At the bottom of the form are buttons for 'Save', 'Save & New', and 'Cancel'.

- Create another users using the above steps.

## Creating New Public Group :

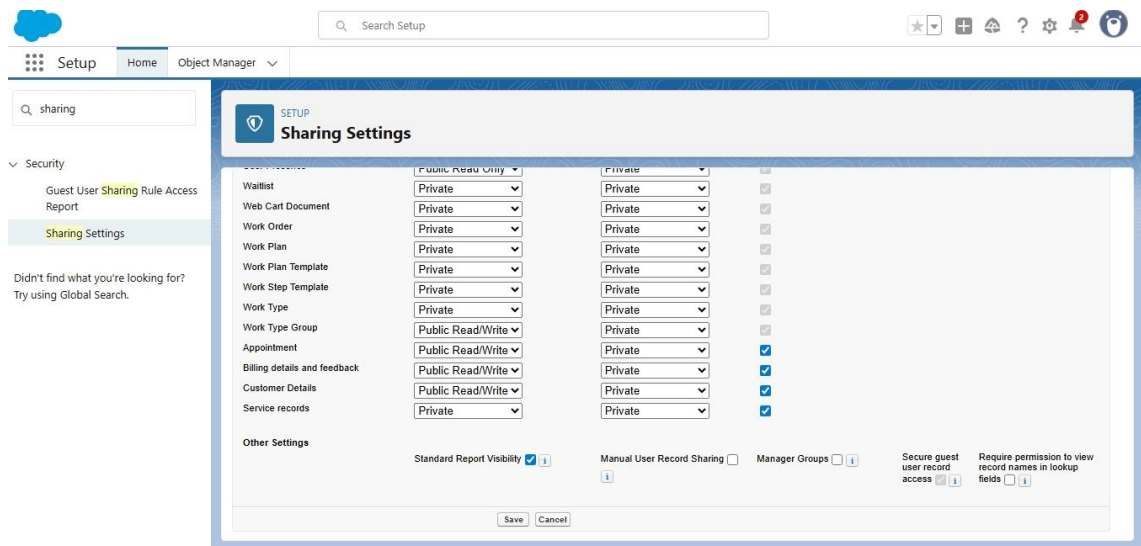
- Go to setup >> type users in quick find box >> select public groups >> click New.

- Label name as “Sales team”



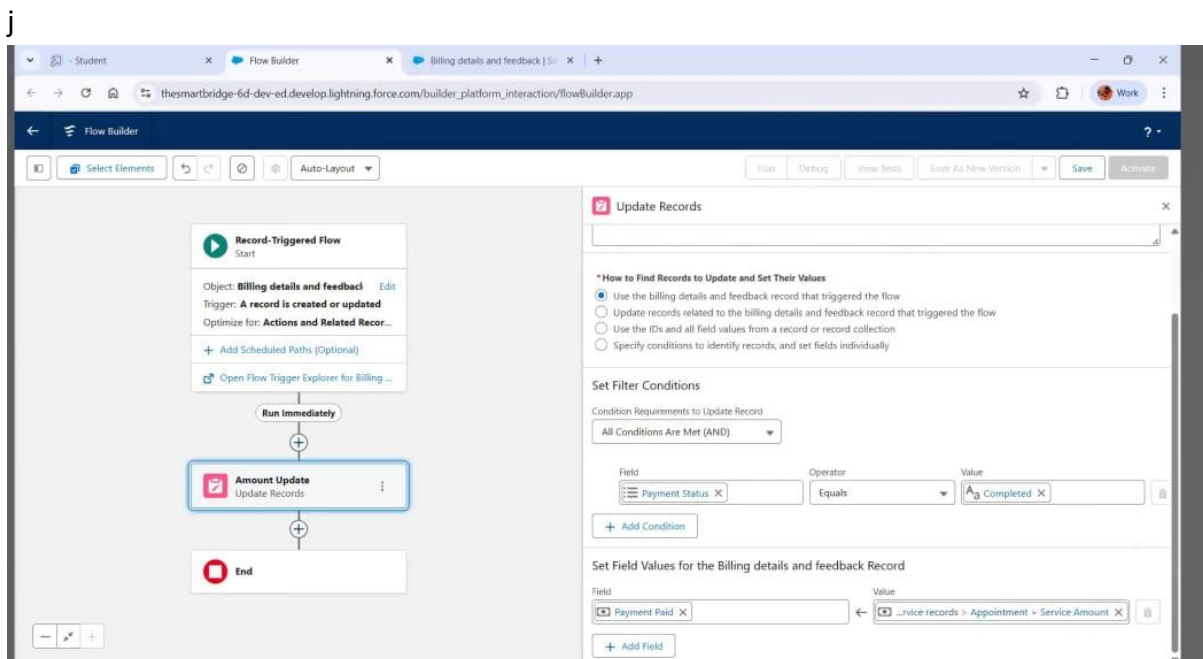
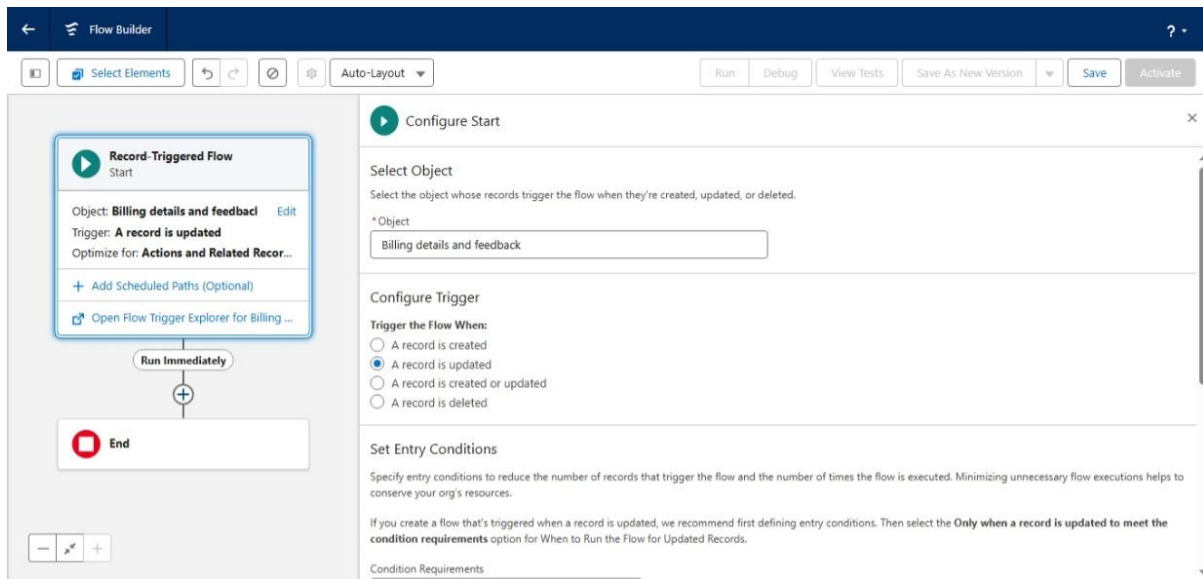
## Creating the Sharing settings :

- In quick find box select the share setting records
- Change the OWD setting of the service record object to private



## Create a Flow :

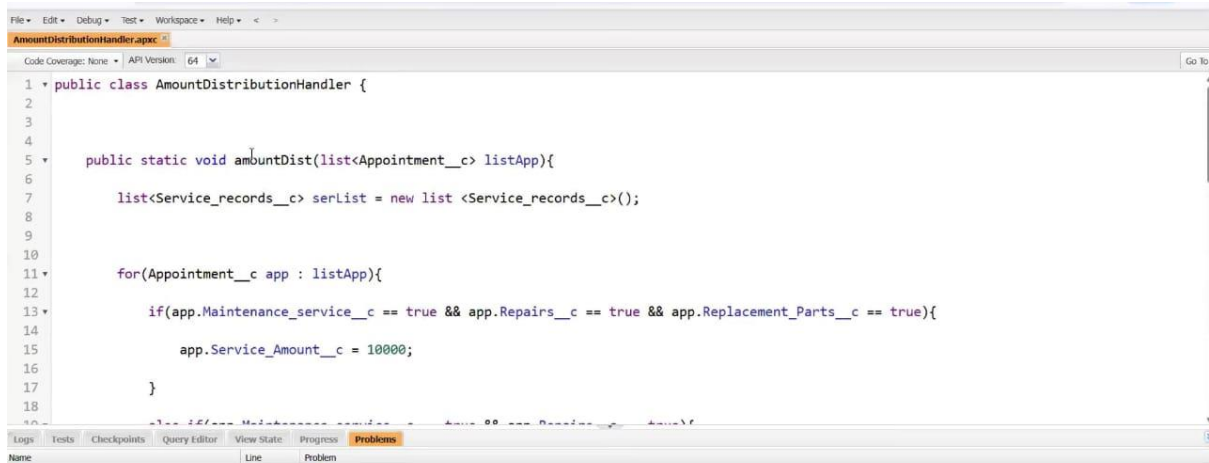
- Type flow in Quick find box then click the new flow
- Select the object as “Billing details and feedback”



- Create the label name as “Amount update”
- Give the details same as above the picture.
- Then create the another Flows

## Apex Trigger :

- Click the Developer console Then create new Apex class
- Name the class as “AmountDistributorHandler”
- 4. Copy the code in the instruction page.

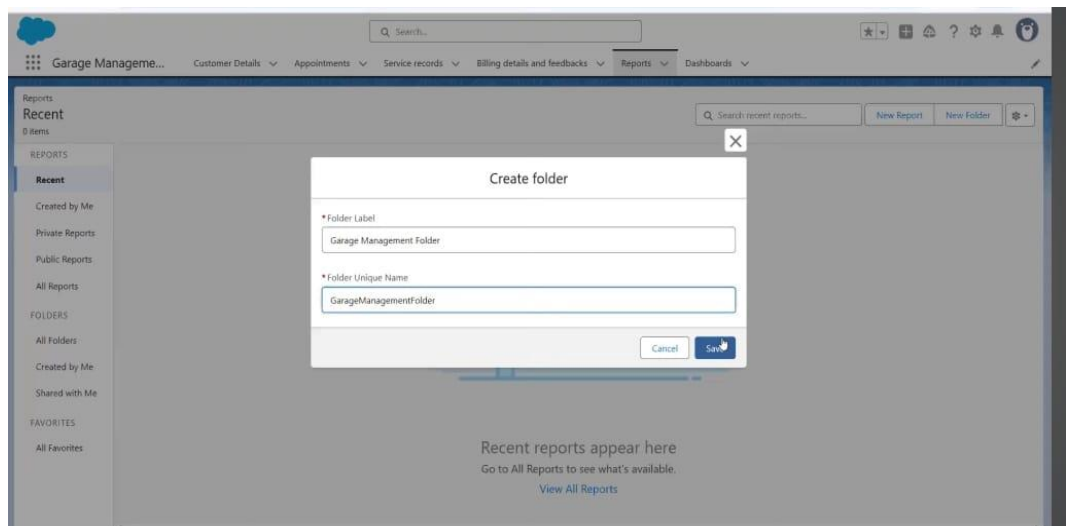


```
1 public class AmountDistributionHandler {
2
3
4
5 public static void amountDist(list<Appointment__c> listApp){
6
7     list<Service_records__c> serlist = new list <Service_records__c>();
8
9
10
11 for(Appointment__c app : listApp){
12
13     if(app.Maintenance_service__c == true && app.Repairs__c == true && app.Replacement_Parts__c == true){
14
15         app.Service_Amount__c = 10000;
16
17     }
18
19 }
```

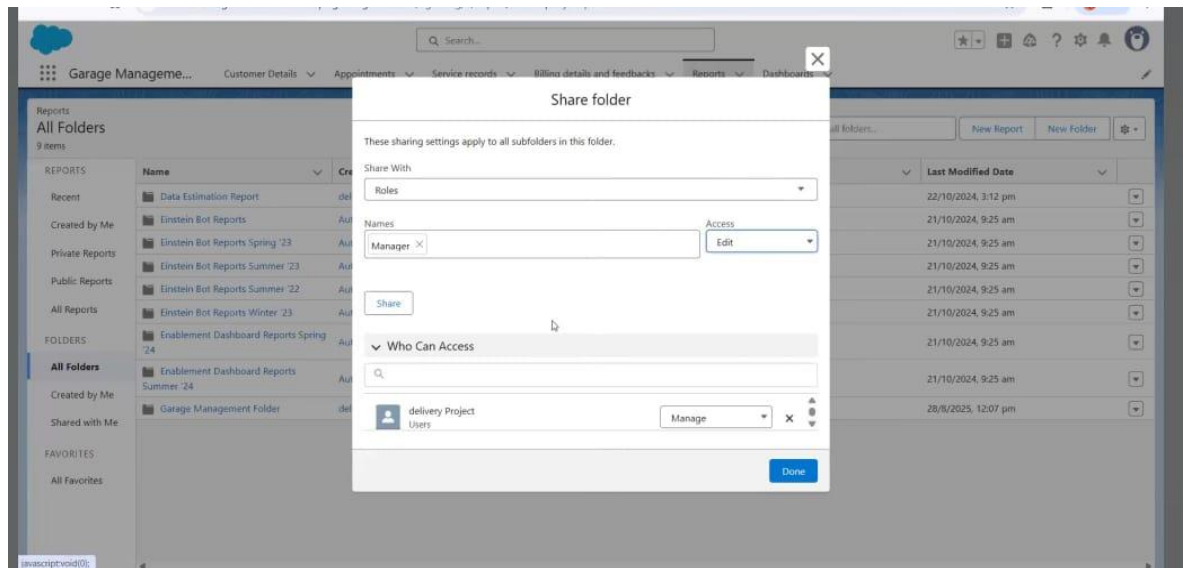
- Then the create the Apex Trigger and copy the code in instruction page.

## Create a Report Folder :

- Click on the app launcher and search for reports.
- Click on the report tab, click on new folder.
- Give the Folder label as “Garage Management Folder”, Folder unique name will be auto populated then Click save



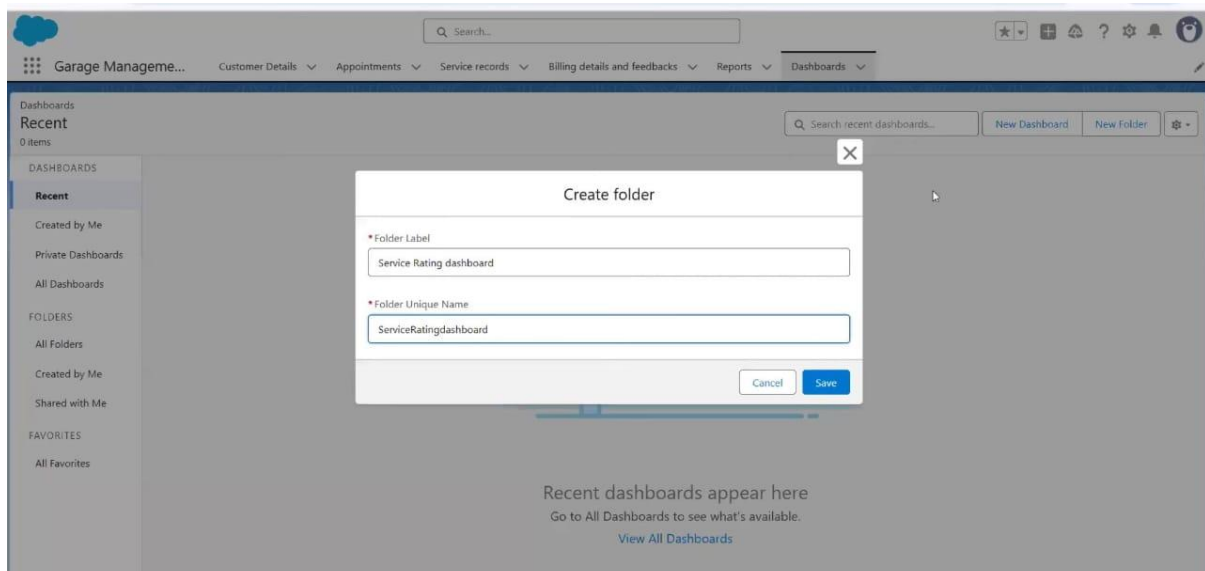




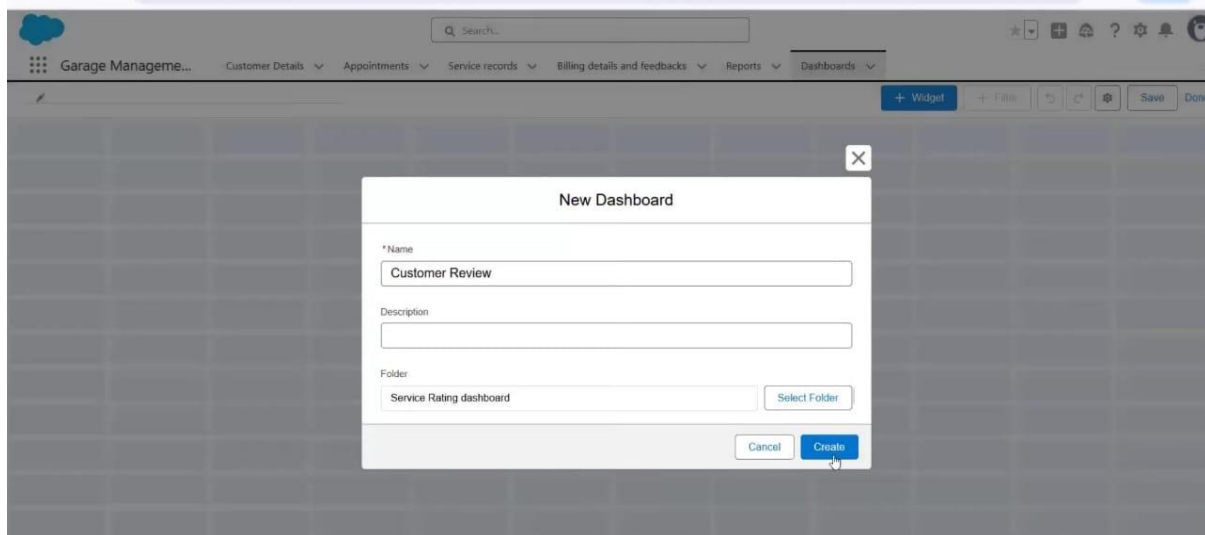
- Then create the Report type and Report

## Create Dashboard Folder :

- Click on the app launcher and search for dashboard.
- Click on dashboard tab.
- Click new folder, give the folder label as “ Service Rating dashboard”.
- Folder unique name will be auto populated and Click save.

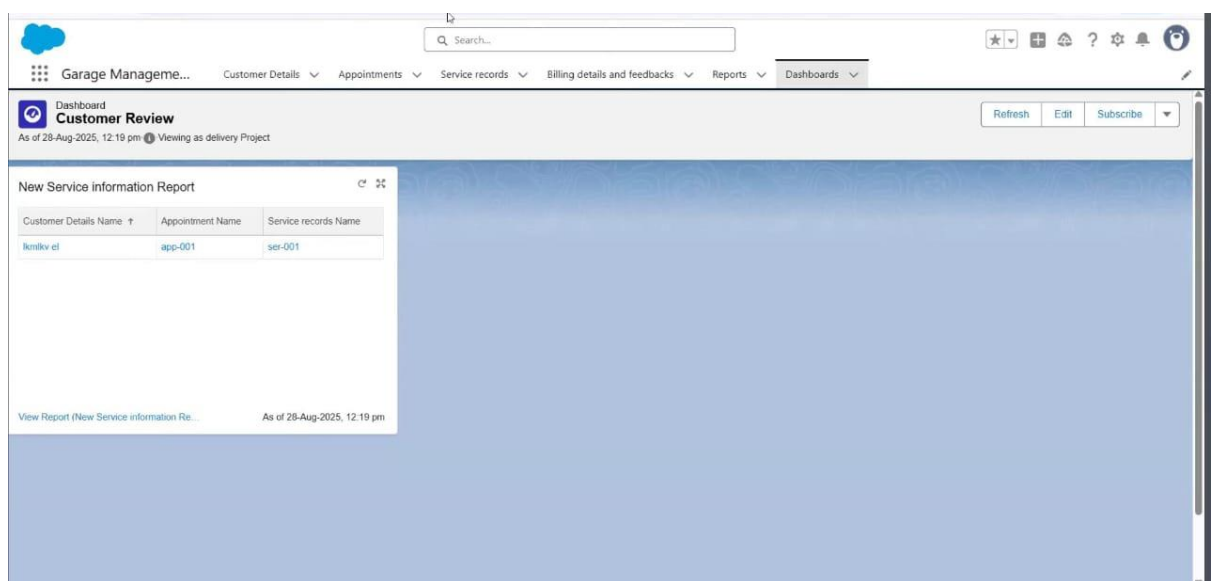


- Now create the dashboard



## Creating Records :

- To create a record in the follow objects follow these steps.
- Click on the app launcher located at the left side of the screen.
- Search for “ Garage Management” and click on it.
- Click on the “ Consumer details tab” and fill the details then click save.



- Then create the Appointment record and service record.
- Now automatically Service status will be moved to completed.

## Conclusion :

The Garage Management System makes garage work easier by storing customer and vehicle details in one place. It saves time, reduces mistakes, and helps in giving better service. This project is useful for managing daily garage activities in a simple and effective way

**THANK YOU**