

# **GARAGE MANAGEMENT SYSTEM**

**College Name:** Government Arts College Coimbatore

**College Code :** bru0012

**Team ID** : NM2025TMID23439

## **TEAM MEMBERS**

---

**TEAM LEADER NAME:** MONISHA.H

**EMAIL:** [monishaharidassm@gmail.com](mailto:monishaharidassm@gmail.com)

**TEAM MEMBER:** HASHEENA NOORJAHAN.H

**EMAIL:** [haseenanoorjahan4@gmail.com](mailto:haseenanoorjahan4@gmail.com)

**TEAM MEMBER:** HARINI.A

**EMAIL:** [hariniamarnath06@gmail.com](mailto:hariniamarnath06@gmail.com)

**TEAM MEMBER:** ANANTHAKUMAR.M

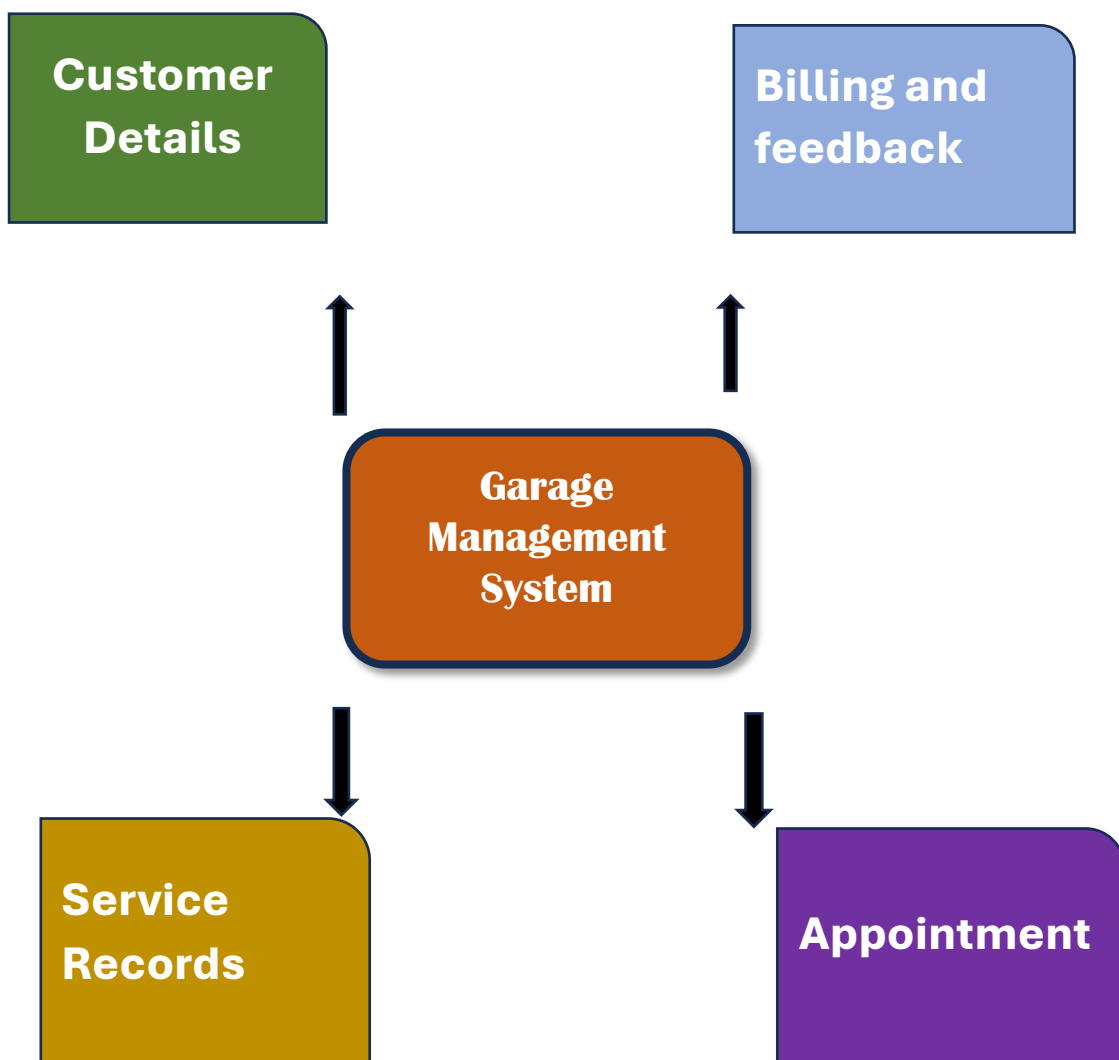
**EMAIL:** [ananth.cs123@gmail.com](mailto:ananth.cs123@gmail.com)

# 1. INTRODUCTION

## 1.1 Project Overview

### **Garage Management system**

The Garage Management System is a valuable tool for automotive repair facilities, helping them deliver top-notch service, increase operational efficiency, and build lasting customer relationships. With its user-friendly interface and powerful features, GMS empowers garages to thrive in a competitive market while ensuring a seamless and satisfying experience for both customers and staff.



**aaaaaa**

## 1.2 DEVELOPMENT PHASE

- Creating developer Account:

By using this URL -

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

**Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud.**

Sign up for your Developer Edition.

- ✓ Build apps fast with drag-and-drop tools
- ✓ Go further with Apex code
- ✓ Build AI agents with Agentforce
- ✓ Harmonize your data with Data Cloud
- ✓ Ground Agentforce with structured and unstructured data
- ✓ Integrate with anything using APIs

**Sign up for your Developer Edition**

A free Salesforce Platform environment with Agentforce and Data Cloud

First name: Monisha ✓ Last name: H ✓

Job title: DEVELOPER ✓ Work email: monishaharidassm@ ✓

Company: Government Arts colle ✓ Country/Region: India ✓

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

☐ I agree to the Main Services Agreement - Developer Services and Salesforce Program Agreement. I acknowledge, as described in the Developer Documentation: (1) the Developer Edition includes autonomous and other generative AI features; and (2) Salesforce may limit use of those features and the org, and may terminate any org that has been inactive for 45 days.

We value your privacy. To learn more, visit our [Privacy Statement](#).

## 1.2 Creating Objects

- 1) Customer Details
- 2) Appointment
- 3) Service Records
- 4) Billing and Feedback

# 1.Customer object

Setup

Home

Object Manager

Search Setup

Star

Plus

Cloud

Help

Settings

2

Profile

SETUP > OBJECT MANAGER

Customer Details

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Details

Description

API Name

Customer\_Detail\_\_c

Custom

✓

Singular Label

Customer Details

Plural Label

Customer Details

Enable Reports

✓

Track Activities

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit

Delete

# 2. Appointment object

Setup

Home

Object Manager

Search Setup

Star

Plus

Cloud

Help

Settings

2

Profile

SETUP > OBJECT MANAGER

Appointment

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Details

Description

API Name

Appointment\_\_c

Custom

✓

Singular Label

Appointment

Plural Label

Appointments

Enable Reports

✓

Track Activities

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit

Delete

### 3. Service Record Object

The screenshot shows the Salesforce Setup interface for the 'Service records' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The left sidebar lists various configuration options under 'Details', with 'Fields & Relationships' selected. The main content area displays the 'Details' for the 'Service records' object, including its API Name, Custom status, and various settings like 'Enable Reports' and 'Track Activities'.

**Setup > OBJECT MANAGER**  
**Service records**

**Details** [Edit] [Delete]

Description

API Name  
**Service\_record\_\_c**

Custom  
✓

Singular Label  
**Service records**

Plural Label  
**Service records**

Enable Reports  
✓

Track Activities

Track Field History  
✓

Deployment Status  
**Deployed**

Help Settings  
Standard salesforce.com Help Window

### 4. Billing and Feedback Object

The screenshot shows the Salesforce Setup interface for the 'Billing details and feedback' object. The top navigation bar includes 'Setup', 'Home', and 'Object Manager'. The left sidebar lists various configuration options under 'Details', with 'Fields & Relationships' selected. The main content area displays the 'Details' for the 'Billing details and feedback' object, including its API Name, Custom status, and various settings like 'Enable Reports' and 'Track Activities'.

**Setup > OBJECT MANAGER**  
**Billing details and feedback**

**Details** [Edit] [Delete]

Description

API Name  
**Billing\_detail\_and\_feedback\_\_c**

Custom  
✓

Singular Label  
**Billing details and feedback**

Plural Label  
**Billing details and feedbacks**

Enable Reports  
✓

Track Activities  
✓

Track Field History

Deployment Status  
**Deployed**

Help Settings  
Standard salesforce.com Help Window

<https://orgfarm-11c3f81f55-dev-ed.develop.lightning.force.com/one/one.app#/setup/ObjectManager/01lgK00000280Xz/FieldsAndRelationships/view>

## 1.3 CREATING CUSTOM TABS

The screenshot shows the Salesforce Setup interface. The left sidebar has a search bar with "tabs" entered and a list of options under "User Interface", including "Rename Tabs and Labels" and "Tabs". The main content area is titled "Custom Tabs" and includes a "Help for this Page" link. Below the title, there is a paragraph explaining that custom tabs can be created to extend Salesforce functionality. A table titled "Custom Object Tabs" lists four tabs: "Appointments", "Billing details and feedbacks", "Customer Details", and "Service records". Each tab has an "Action" column with "Edit" and "Del" links, a "Label" column, a "Tab Style" column with a visual representation, and a "Description" column. The URL at the bottom of the browser window is `https://orgfarm-11c3f81f55-dev-ed.develop.lightning.force.com/lightning/setup/RenameTab/home`.

Action	Label	Tab Style	Description
<a href="#">Edit</a>   <a href="#">Del</a>	Appointments		Alarm clock
<a href="#">Edit</a>   <a href="#">Del</a>	Billing details and feedbacks		Credit card
<a href="#">Edit</a>   <a href="#">Del</a>	Customer Details		Gears
<a href="#">Edit</a>   <a href="#">Del</a>	Service records		Books

## 1.3 CREATING LIGHTNING APP

The screenshot shows the Salesforce Lightning App Builder interface. The top navigation bar includes "Lightning App Builder", "App Settings", "Pages", and "Garage Management Application". The left sidebar has a search bar and a list of options under "App Settings", including "App Details & Branding", "App Options", "Utility Items (Desktop Only)", "Navigation Items", and "User Profiles". The main content area is titled "App Details & Branding" and includes a paragraph explaining that users can give their Lightning app a name and description, upload an image, and choose the highlight color for its navigation bar. The "App Details" section has fields for "App Name" (Garage Management Application), "Developer Name" (Garage\_Management\_Application), and "Description" (Enter a description...). The "App Branding" section has an "Image" upload button, a "Primary Color Hex Value" dropdown (blue) with the value "#0070D2", and "Org Theme Options" (Use the app's image and color instead of the org's custom theme). The "App Launcher Preview" section shows a preview of the app launcher with a blue button labeled "GM" and the text "Garage Management Appli...". The URL at the top of the browser window is `orgfarm-11c3f81f55-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000006PvdxQAC&retUrl=https%3A%2F%2Forgfarm-11...`.

# 1.4 Configuring fields and relationships

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER

### Customer Details

Details

**Fields & Relationships**

6 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Customer Name	Name	Text(80)		✓
Gmail	Gmail__c	Email		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Phone number	Phone_number__c	Phone		

Related Lookup Filters

Setup Home Object Manager

Search Setup

SETUP > OBJECT MANAGER

### Appointment

Details

**Fields & Relationships**

11 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date	Appointment_Date__c	Date		
Appointment Name	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		
Customer Details	Customer_Details__c	Lookup(Customer Details)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Maintenance service	Maintenance_service__c	Checkbox		



Setup Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Service records

Details

**Fields & Relationships**  
8 Items, Sorted by Field Label

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Created By	CreatedById	Lookup(User)	
Last Modified By	LastModifiedById	Lookup(User)	
Owner	OwnerId	Lookup(User,Group)	✓
Quality Check Status	Quality_Check_Status__c	Checkbox	
service date	service_date__c	Formula (Date)	
Service records Name	Name	Auto Number	✓
Service Status	Service_Status__c	Picklist	

Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
Related Lookup Filters

Setup Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER

### Billing details and feedback

Details

**Fields & Relationships**  
8 Items, Sorted by Field Label

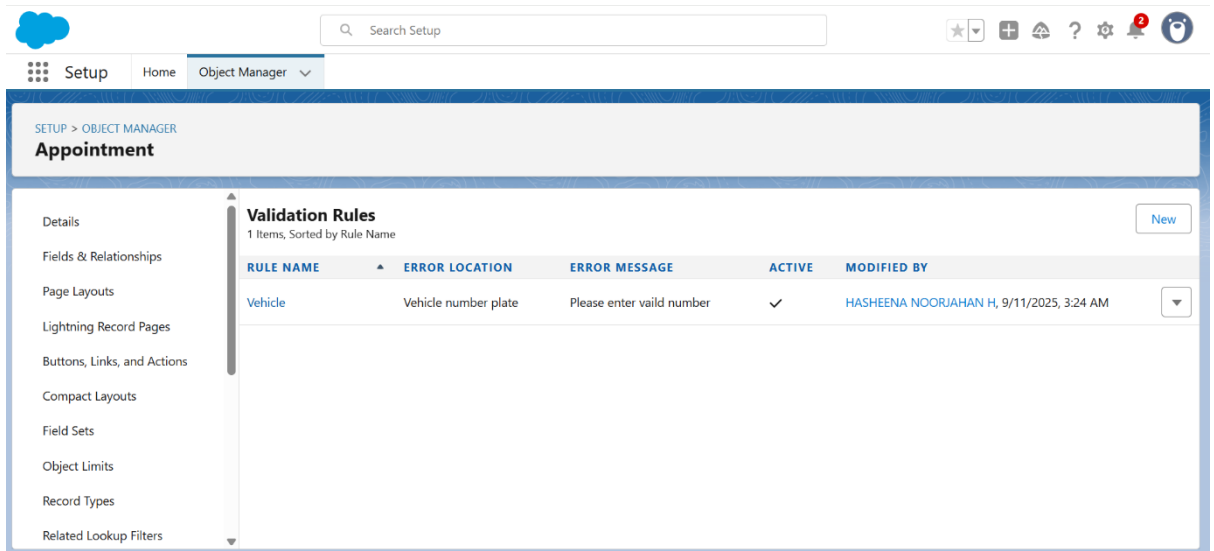
Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Billing detail and feedback nameName	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)	✓	
Payment Paid	Payment_Paid__c	Currency(18, 0)		
Payment Status	Payment_Status__c	Picklist		
Rating for service	Rating for service__c	Text(1)		

Page Layouts  
Lightning Record Pages  
Buttons, Links, and Actions  
Compact Layouts  
Field Sets  
Object Limits  
Record Types  
Related Lookup Filters

## 1.5 To create a validation rule

- To an Appointment Object



SETUP > OBJECT MANAGER

### Appointment

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

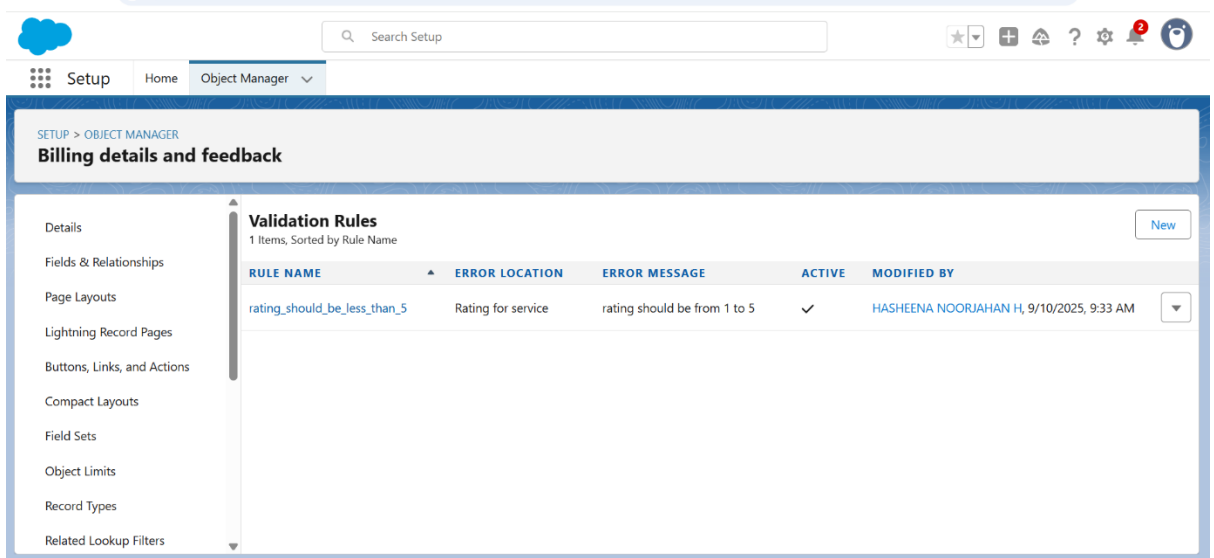
#### Validation Rules

1 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Vehicle	Vehicle number plate	Please enter valid number	✓	HASHEENA NOORJAHAN H, 9/11/2025, 3:24 AM

New

- **To an Billing and feedback Object**



SETUP > OBJECT MANAGER

### Billing details and feedback

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

#### Validation Rules

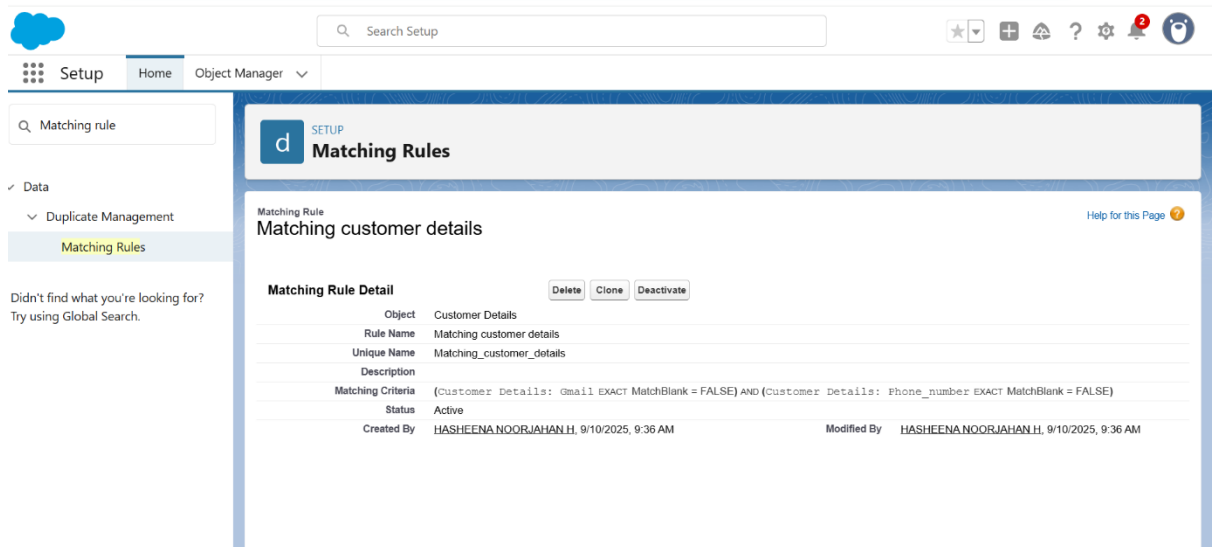
1 Items, Sorted by Rule Name

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
rating_should_be_less_than_5	Rating for service	rating should be from 1 to 5	✓	HASHEENA NOORJAHAN H, 9/10/2025, 9:33 AM

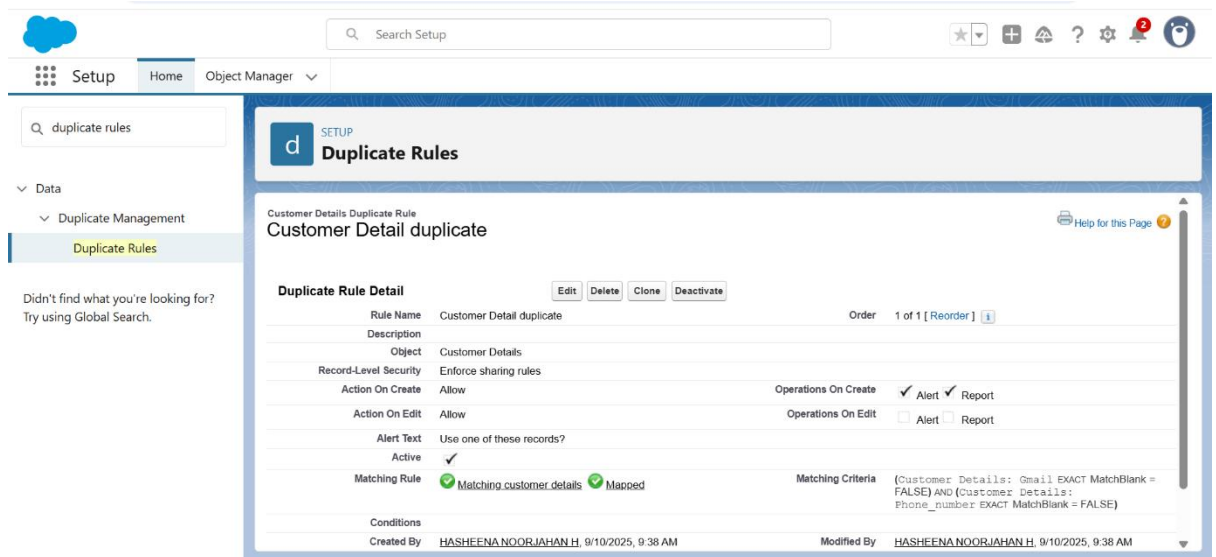
New

## **1.6 DUPLICATE RULE**

- ***To create a matching rule to an Customer details Object***

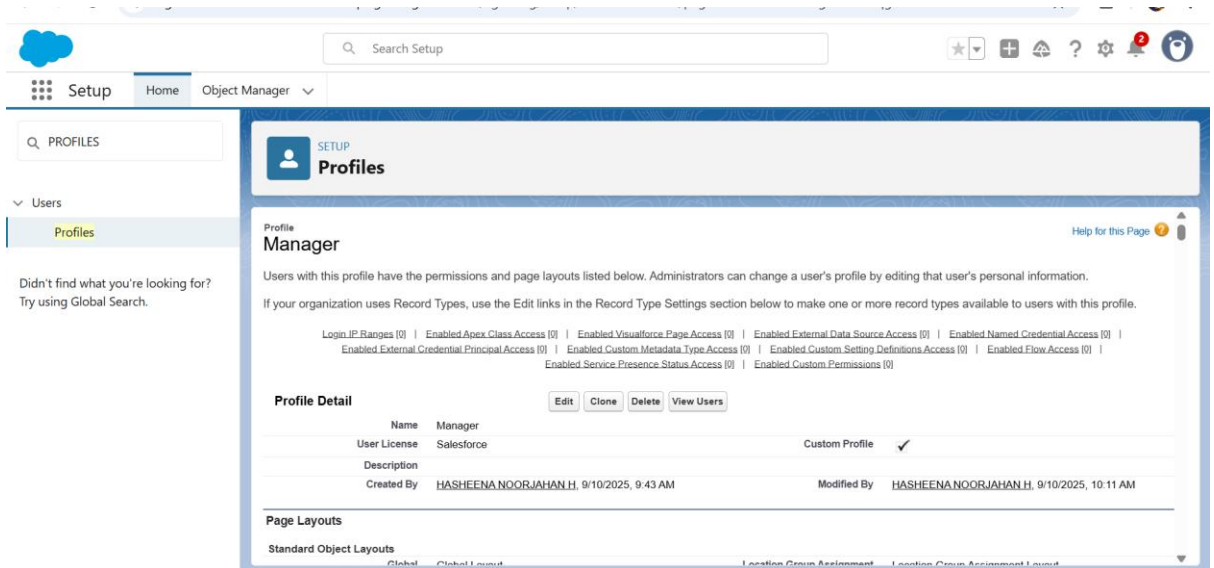


- **To create a Duplicate rule to an Customer details Object**

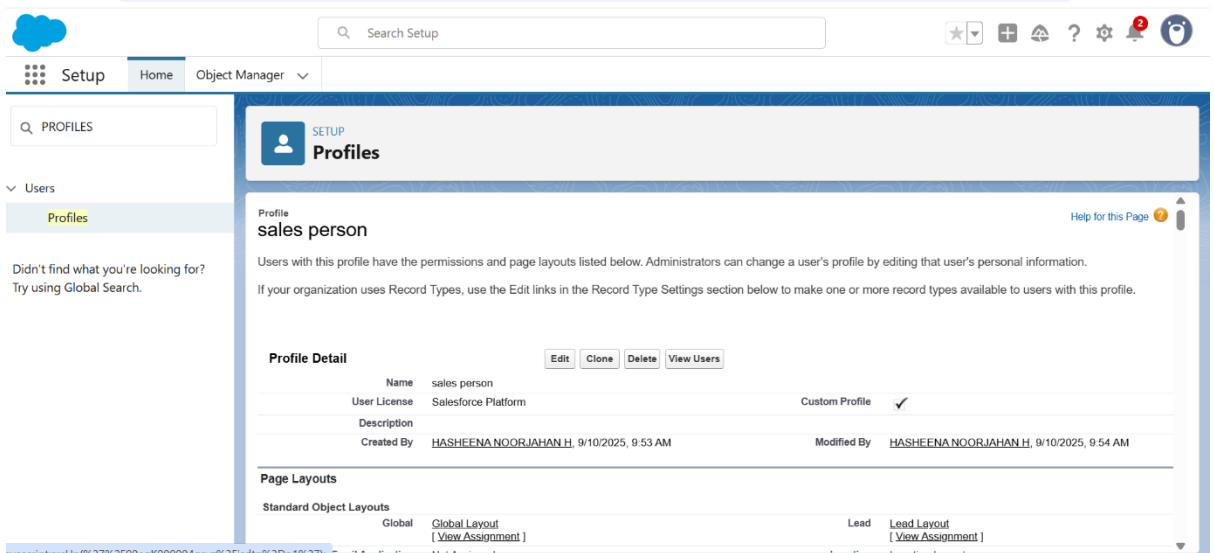


## 1.7 PROFILES

- **Creating Manager Profile**

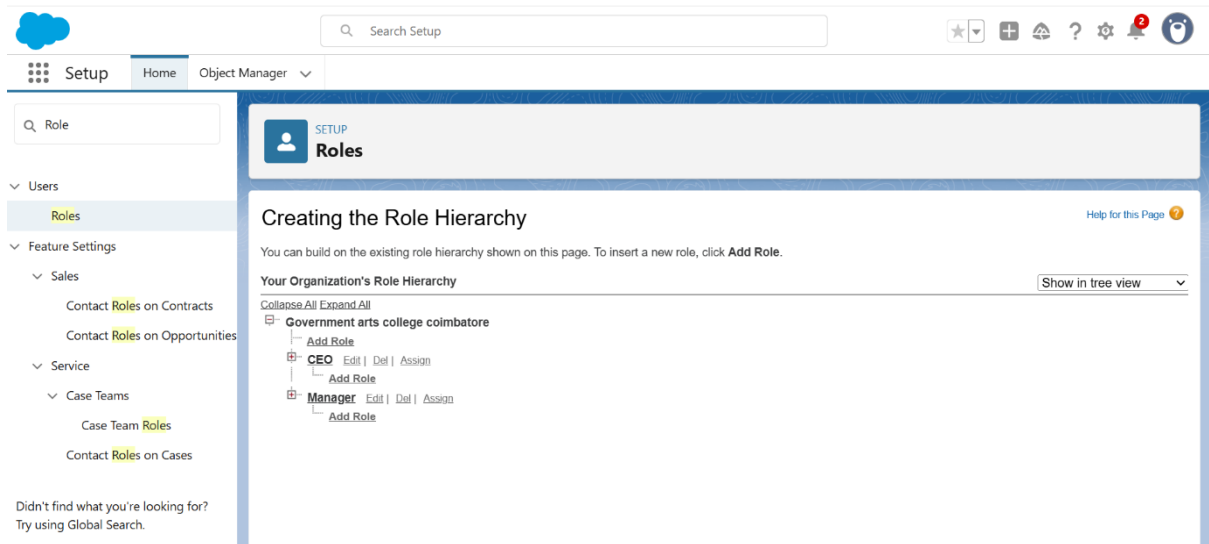
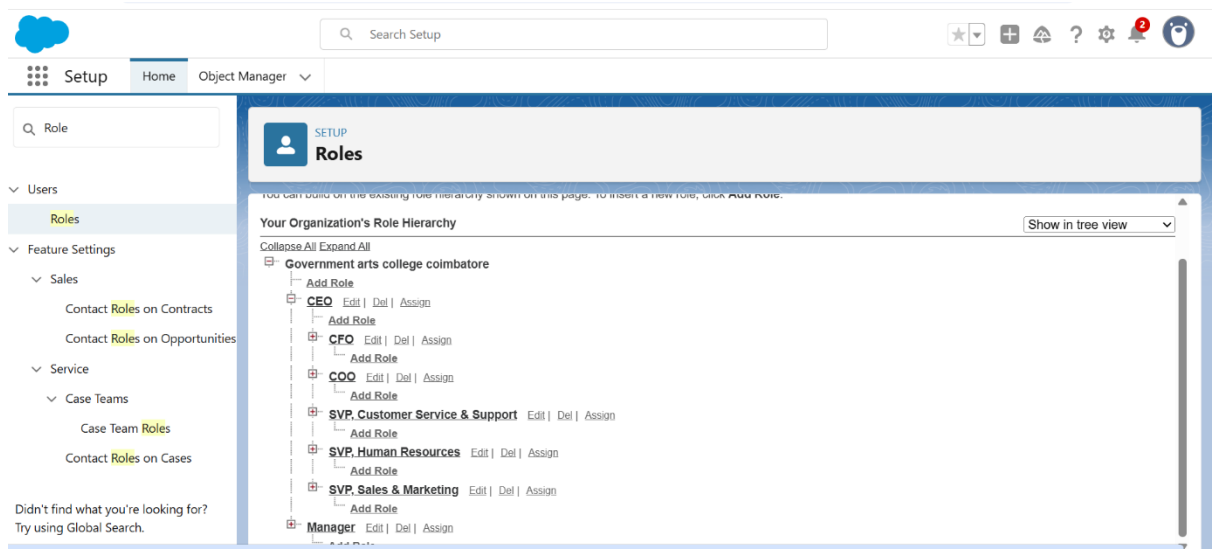


- ***Creating sales person profile***



## **1.8 ROLE & ROLE HIERARCHY**

- **Creating Manager Role & Another roles**



## 1.9 USERS

- **Creating users**

**Users**

View: All Users | Edit | Create New View

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>   Edit	Chatter Expert	Chatter	chatty.00d9k00000apqmuaj.gubb1lojkdBg@chatter.salesforce.com		✓	Chatter Free User
<input type="checkbox"/>   Edit	EPIC_OrgFarm	OEPIG	epic.02f10f418582@orgfarm.salesforce.com		✓	System Administrator
<input type="checkbox"/>   Edit	Mikaelson_Niklaus	nmika	haseenanoorjahan4@gmail.com	Manager	✓	Manager
<input type="checkbox"/>   Edit	neil_keneil	kneil	haseenanoorjahan4@gmail.com	sales.person	✓	sales.person
<input type="checkbox"/>   Edit	NOORJAHAN.H.HASHEENA	has	haseenanoorjahan4243@agentforce.com		✓	System Administrator
<input type="checkbox"/>   Edit	User_Integration	integ	integration@00d9k00000apqmuaj.com		✓	Analytics Cloud Integration User
<input type="checkbox"/>   Edit	User_Security	sec	insightssecurity@00d9k00000apqmuaj.com		✓	Analytics Cloud Security User
<input type="checkbox"/>   Edit	Wade_Neil	nwade	waden@gmail.com	sales.person	✓	sales.person

New User | Reset Password(s) | Add Multiple Users

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other All

## 1.10 PUBLIC GROUPS

- *Creating New Public Group*

**Public Groups**

Group: sales team | Help for this Page

Edit | Delete | View Summary

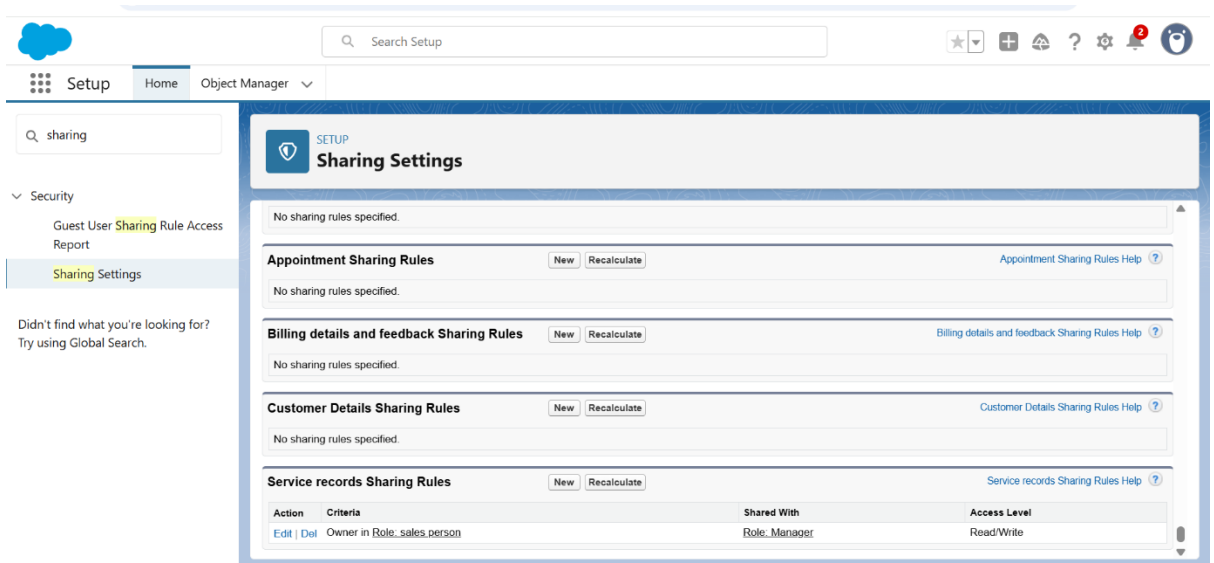
Label	sales team
Group Name	sales_team
Grant Access Using Hierarchies	✓
Description	
Created By	HASHEENA.NOORJAHAN.H, 9/10/2025, 10:26 AM
Modified By	HASHEENA.NOORJAHAN.H, 9/10/2025, 10:26 AM

View All Users

Name	Type
sales.person	Role

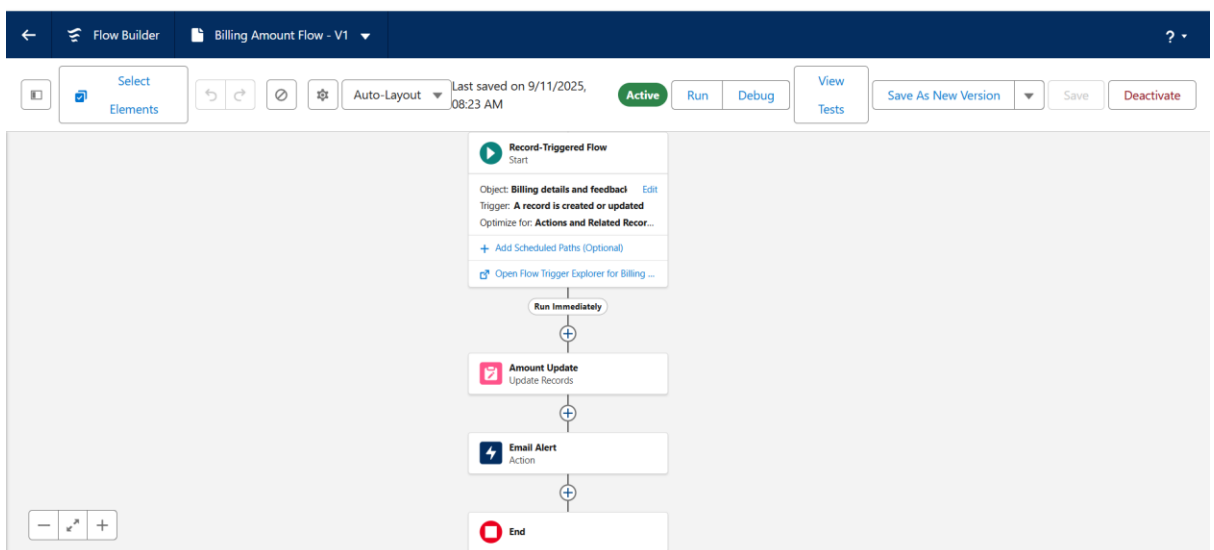
## 1.12 SHARING SETTING

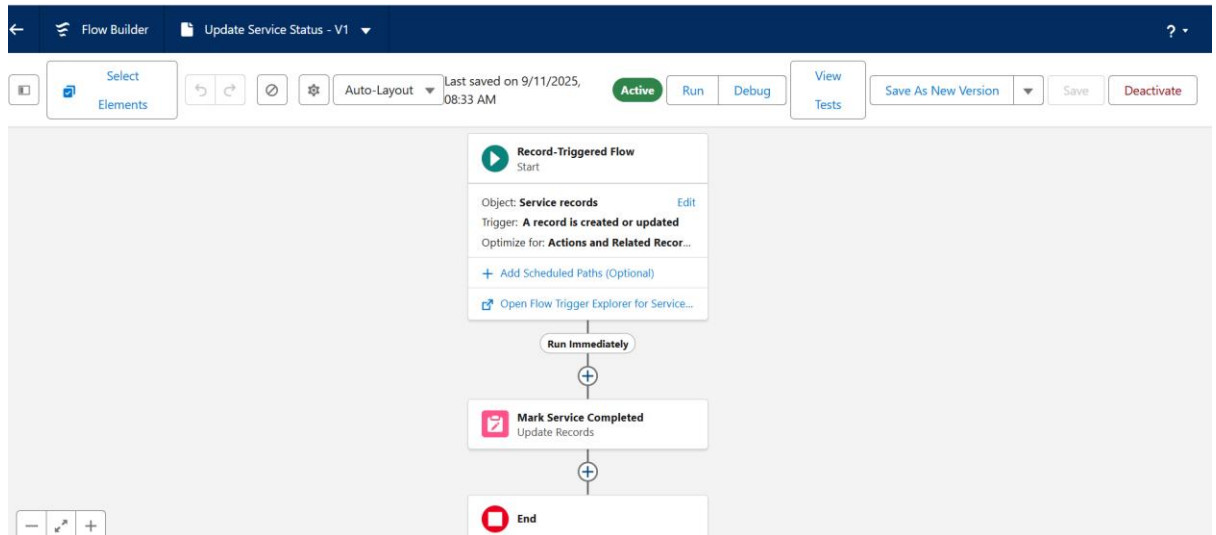
- **Create Sharing settings**



## 1.13 FLOWS

- **Creating Billing flow & Another Flow**





## 1.14 APEX TRIGGER

- *Apex Handler*

*ApexDistributionHandler*

*Code:*

```
public class AmountDistributionHandler {
    public static void amountDist(list<Appointment__c> listApp){
        list<Service_records__c> serList = new list <Service_records__c>();
        for(Appointment__c app : listApp){
            if(app.Maintenance_service__c == true && app.Repairs__c == true
                && app.Replacement_Parts__c == true
                app.Service_Amount__c = 10000;
        }
        else if(app.Maintenance_service__c == true &&
            app.Repairs__c == true){
            app.Service_Amount__c = 500

```



```

    else if(app.Maintenance_service__c == true &&
app.Replacement_Parts__c == true){
    app.Service_Amount__c = 8000;
}

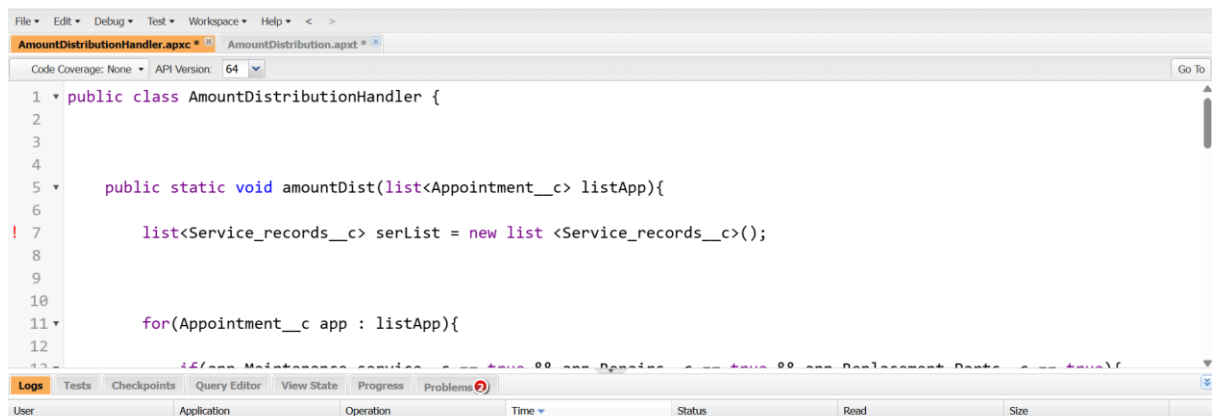
else if(app.Repairs__c == true && app.Replacement_Parts__c ==
true){
    app.Service_Amount__c = 7000;
}

else if(app.Maintenance_service__c == true){
    app.Service_Amount__c = 2000;
}

else if(app.Repairs__c == true){
    app.Service_Amount__c = 3000;
}

else if(app.Replacement_Parts__c == true){
    app.Service_Amount__c = 5000;
}}

```



## ApexDistribution

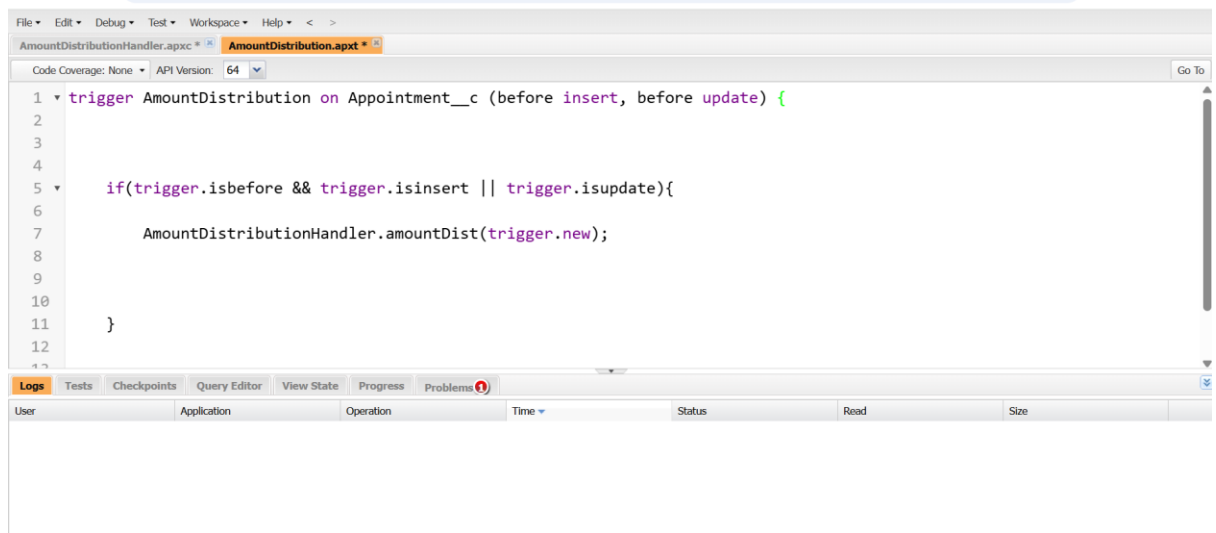
### Code:

**trigger AmountDistribution on Appointment\_\_c (before  
insert, before update) {**

**if(trigger.isbefore && trigger.isinsert || trigger.isupdate){**  
**AmountDistributionHandler.amountDist(trigger.new);**

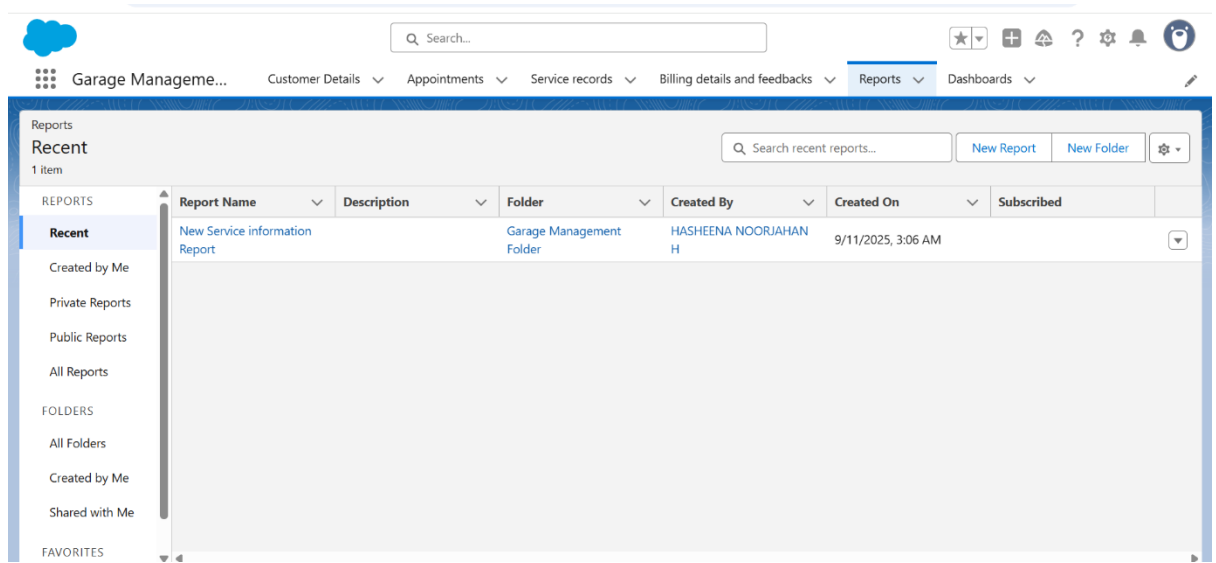
**}**

**}**

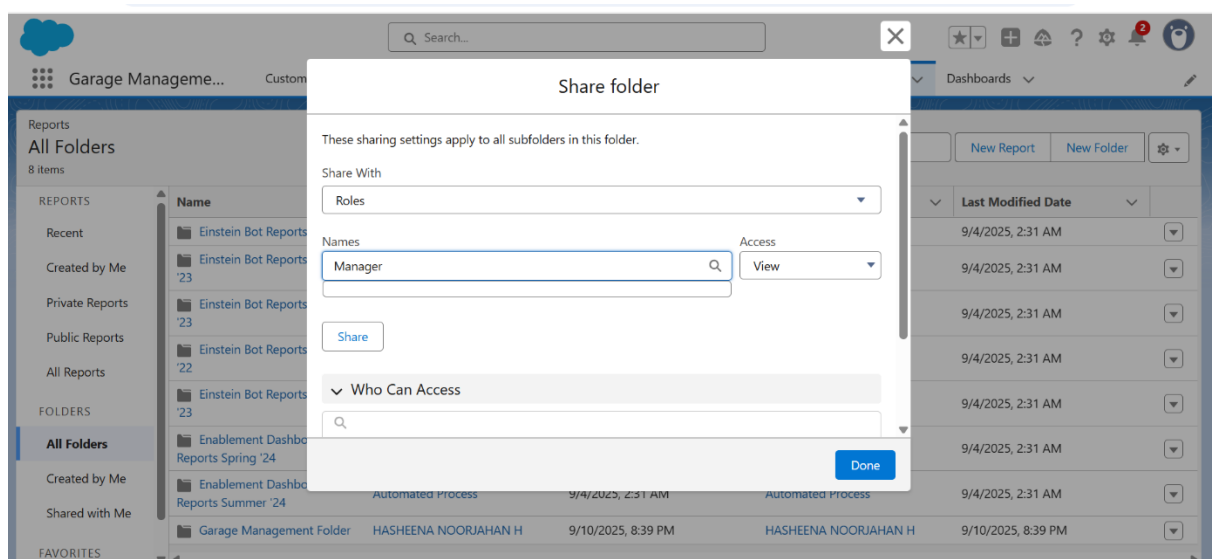


## **1.15 REPORTS**

- ***Create a Report Folder***

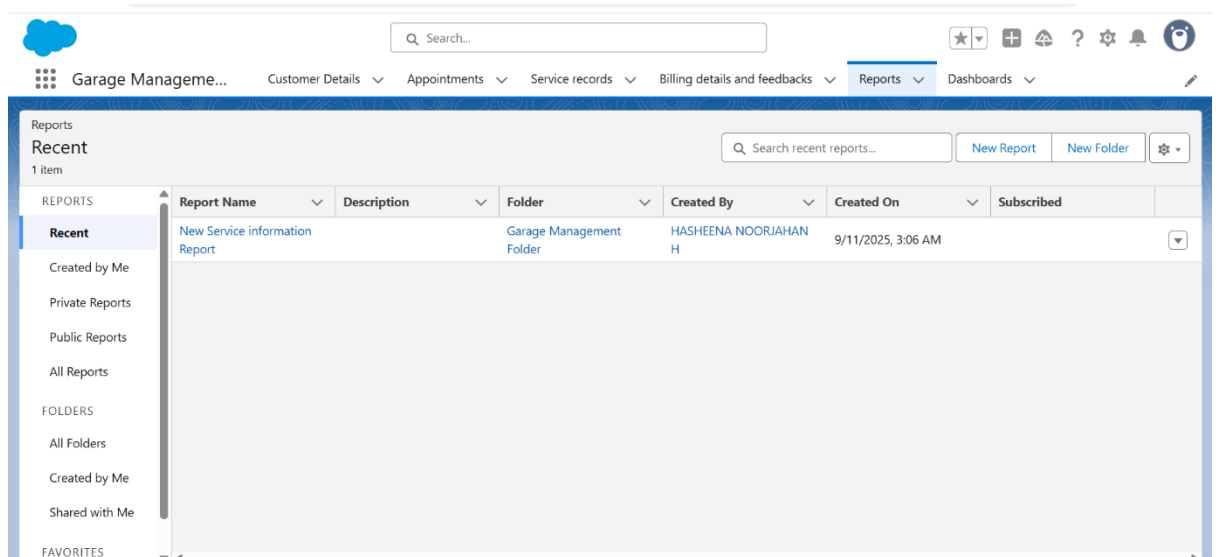


- ***Sharing a Report Folder***



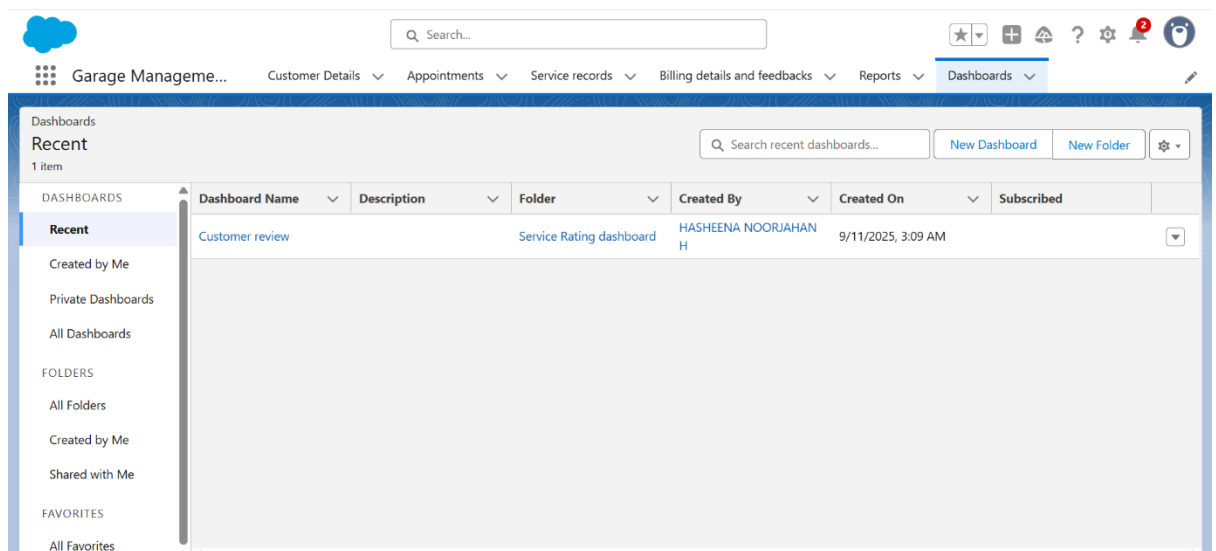
- ***Create a Report Type***






## 1.16 DASHBOARD

- ***Creating Dashboard & Dashboard Folder***










## 1.17 USER ADOPTION

- ***Creating Records***




Search...



Garage Manage...

Customer DetailsAppointmentsService recordsBilling details and feedbacksReportsDashboards

Customer Details

Recently Viewed

NewImportChange OwnerAssign Label


2 items • Updated a few seconds ago

Search this list...








Customer Name

1☐Neil

2☐Wade




Search...



Garage Manage...

Customer DetailsAppointmentsService recordsBilling details and feedbacksReportsDashboards

Appointments

Recently Viewed

NewImportChange OwnerAssign Label


2 items • Updated a few seconds ago

Search this list...








Appointment Name

1☐app-005

2☐app-004




Search...



Garage Manage...

Customer DetailsAppointmentsService recordsBilling details and feedbacksReportsDashboards

Service records

Recently Viewed

NewImportChange OwnerAssign Label

2 items • Updated a few seconds ago

Search this list...

Service records Name

1☐ser-002

2☐ser-001

# **CONCLUSION**

The conclusion of effective garage management is achieving a competitive advantage through increased operational efficiency, streamlined workflows, and enhanced customer satisfaction by leveraging digital systems like [Garage Management Systems \(GMS\)](#).







