

GARAGE MANAGEMENT SYSTEM

College Name: CHIKKANNA GOVERNMENT ARTS COLLEGE

College Code: asbru06

TEAM ID: NM2025TMID26217

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1. INTRODUCTION

1.1 Project Overview

The Garage Management System (GMS) is designed to optimize automotive repair operations by simplifying service management, enhancing efficiency, and strengthening customer relationships. With an intuitive interface and robust features, it ensures a seamless experience for both customers and staff, enabling garages to remain competitive in the market.

1.2 Purpose

The purpose of the Garage Management System (GMS) is to streamline operations in automotive repair facilities by providing a user-friendly, efficient platform that enhances service quality, improves workflow management, and strengthens customer relationships.

2. DEVELOPMENT PHASE

Creating Developer Account:

By using this URL - <https://naanmudhalvan.smartzinternz.com>

Platform Login Credentials - Pr X Developer Edition with Agentforce X +

salesforce.com/form/developer-signup/?d=pb

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

Steps
1 Select Type
Customer Support

Sign up for your Developer Edition

A free Salesforce Platform environment with Agentforce and Data Cloud

First name: Deepika Last name: S

Job title: Developer Work email: deepiragava@gmail.co

Company: chikkana government 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.

● Created Objects : Customer Details, Appointments, Service records, Billing details and feedb ack

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes the Salesforce logo, a search bar labeled "Search Setup", and various global buttons. The main header reads "SETUP > OBJECT MANAGER" and "Customer Details". On the left, a sidebar lists various object configuration options under the "Details" tab. The main content area displays the "Customer Details" object's details, including its API name ("Customer_Details_c"), which is set to "Custom". Other settings shown include "Enable Reports" (checked), "Track Activities" (checked), "Track Field History" (checked), "Deployment Status" (set to "Deployed"), and "Help Settings" (set to "Standard salesforce.com Help Window").

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes the Salesforce logo, a search bar labeled "Search Setup", and various global buttons. The main header reads "SETUP > OBJECT MANAGER" and "Appointment". On the left, a sidebar lists various object configuration options under the "Details" tab. The main content area displays the "Appointment" object's details, including its API name ("Appointment_c"), which is set to "Custom". Other settings shown include "Enable Reports" (checked), "Track Activities", "Track Field History" (checked), "Deployment Status" (set to "Deployed"), and "Help Settings" (set to "Standard salesforce.com Help Window").

Setup > OBJECT MANAGER

Billing details and feedback

Details
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

Description	
API Name	<code>Billing_details_and_feedback_c</code>
Custom	<input checked="" type="checkbox"/>
Singular Label	<code>Billing details and feedback</code>
Plural Label	<code>Billing details and feedback</code>
Enable Reports	<input checked="" type="checkbox"/>
Track Activities	
Track Field History	
Deployment Status	<code>Deployed</code>
Help Settings	Standard salesforce.com Help Window

Edit Delete

Setup > OBJECT MANAGER

Service records

Details
Details

- Fields & Relationships
- Page Layouts
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- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules

Description	
API Name	<code>Service_records_c</code>
Custom	<input checked="" type="checkbox"/>
Singular Label	<code>Service records</code>
Plural Label	<code>Service records</code>
Enable Reports	<input checked="" type="checkbox"/>
Track Activities	
Track Field History	<input checked="" type="checkbox"/>
Deployment Status	<code>Deployed</code>
Help Settings	Standard salesforce.com Help Window

Edit Delete

● Created Custom Tabs for all the Objects that is been Created

Custom Tabs

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.

Category	Action	Label	Tab Style	Description
Custom Object Tabs	Edit Del	Appointments	Bottle	
	Edit Del	Billing details and feedback	Jewel	
	Edit Del	Customer Details	Diamond	
	Edit Del	Service records	Compass	
Web Tabs				
No Web Tabs have been defined				
Visualforce Tabs				
No Visualforce Tabs have been defined				
Lightning Component Tabs				
No Lightning component tabs have been defined				
Lightning Page Tabs				
No Lightning Page Tabs have been defined				

Action	Label	Tab Style	Description
Edit Del	Appointments	Bottle	
Edit Del	Billing details and feedback	Jewel	
Edit Del	Customer Details	Diamond	
Edit Del	Service records	Compass	

● Developed Lightning App with relevant tabs

The screenshot shows the Salesforce Setup interface with the "App Manager" selected in the sidebar. The main area displays the "Lightning Experience App Manager" page, which lists 26 items sorted by App Name. The columns include App Name, Developer Name, Description, Last Modified Date, App Type, and Visibility. The "All Tabs" app is at the top. Other visible apps include Analytics Studio, App Launcher, Approvals, Automation, Bolt Solutions, Community, Content, Data Cloud, Data Manager, Digital Experiences, Lightning Usage App, Marketing CRM Classic, and My Service Journey.

New Lightning App

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details

*App Name !
Garage Management Application

*Developer Name !
Garage_Management_Application

Description !
Enter a description...

App Branding

Image !

Primary Color Hex
Value !
#0070D2

Org Theme Options
 Use the app's image and color instead of the org's custom theme

Next

New Lightning App

App Options

Navigation and Form Factor i

* Navigation Style

- Standard navigation
 Console navigation

* Supported Form Factors

- Desktop and phone
 Desktop
 Phone

Setup and Personalization i

Setup Experience

- Setup (full set of Setup options)
 Service Setup
 Data Cloud Setup

App Personalization Settings

- Disable end user personalization of nav items in this app
 Disable temporary tabs for items outside of this app
 Use Omni-Channel sidebar

Back

Next

New Lightning App

Utility Items (Desktop Only)

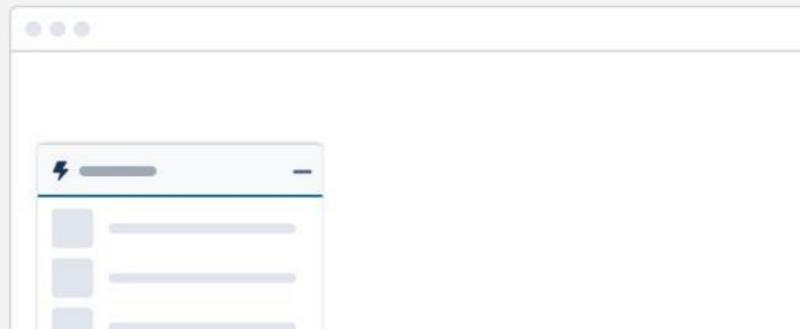
Give your users quick access to productivity tools and add background utility items to your app.

Add Utility Item

Utility Bar Alignment i

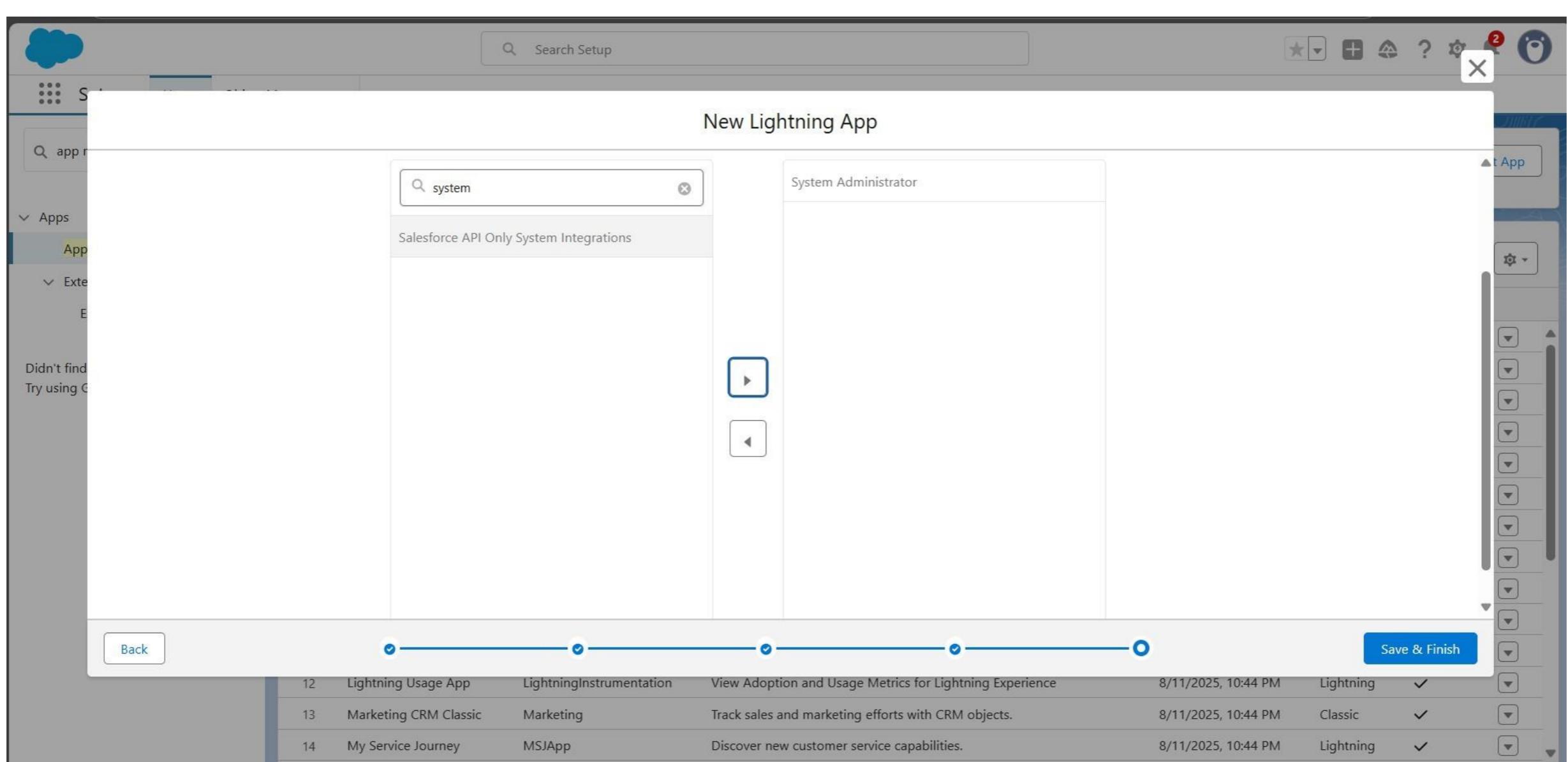
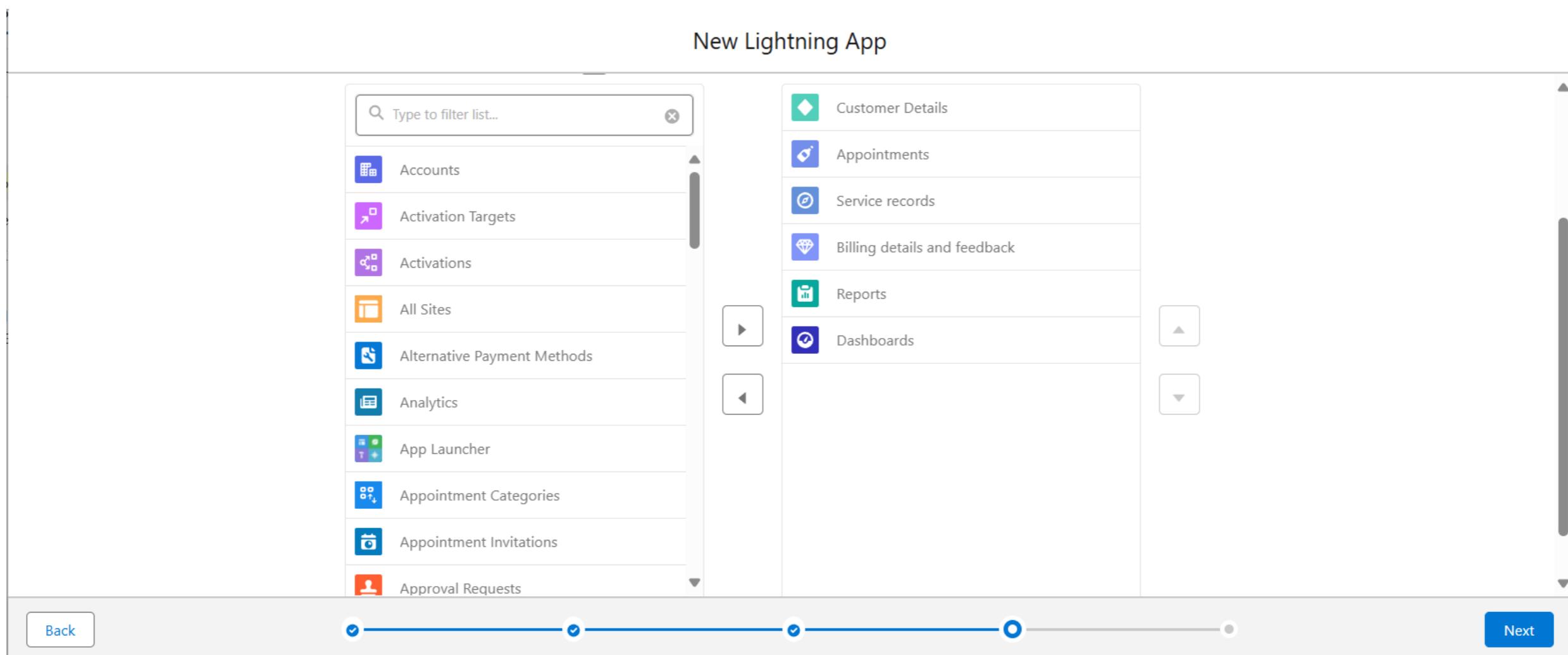
Default

The utility bar is a fixed footer that opens components in docked panels. Available only when the app is viewed in Lightning Experience on a desktop.



Back

Next



- Created the fields for: Customer Details Object, Lookup, Checkbox, Date Fields, Currency, Text, Picklist, Formula and Service Records Object

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

- Header:** Search Setup, Home, Object Manager.
- Breadcrumbs:** SETUP > OBJECT MANAGER.
- Section:** Customer Details.
- Left Sidebar:** Details, Fields & Relationships (selected), 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.
- Table:** Fields & Relationships (6 items, Sorted by Field Label).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Customer Details 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		▼

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

- Header:** Search Setup, Home, Object Manager.
- Breadcrumbs:** SETUP > OBJECT MANAGER.
- Section:** Appointment.
- Left Sidebar:** Details, Fields & Relationships (selected), 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.
- Table:** Fields & Relationships (5 items, Sorted by Field Label).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Name	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		▼
Customer Details	Customer_Details_c	Lookup(Customer Details)		✓
Last Modified By	LastModifiedById	Lookup(User)		▼
Owner	OwnerId	Lookup(User,Group)		✓

Setup > Object Manager

Service records

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

Details

Description	Enable Reports
API Name Service_records_c	✓
Custom	Track Activities
	Track Field History
✓ Singular Label Service records	✓
Plural Label Service records	Deployment Status Deployed
	Help Settings Standard salesforce.com Help Window

[Edit](#) [Delete](#)

Setup > Object Manager

Billing details and feedback

Details

- Fields & Relationships
- Page Layouts
- Lightning Record Pages
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- Record Types
- Related Lookup Filters
- Search Layouts
- List View Button Layout
- Restriction Rules
- Scoping Rules

Fields & Relationships
5 Items, Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Billing details and feedback Name	Name	Auto Number		✓
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Service records	Service_records_c	Lookup(Service records)		✓

Setup > Object Manager

Customer Details

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Customer Details 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		▼

Details

- Page Layouts
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- Scoping Rules

Setup > Object Manager

Appointment

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date	Appointment_Date_c	Date/Time		▼
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		▼
Owner	OwnerId	Lookup(User,Group)		✓
Repairs	Repairs_c	Checkbox		▼
Replacement Parts	Replacement_Parts_c	Checkbox		▼

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
- Scoping Rules

Setup > Object Manager > Service records

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment	Appointment_c	Lookup(Appointment)		✓
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 records Name	Name	Auto Number		✓

Setup > Object Manager > Billing details and feedback

Fields & Relationships

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Billing details and feedback Name	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)		
Service records	Service_records_c	Lookup(Service records)		✓

Setup > Object Manager

Billing details and feedback

Fields & Relationships		FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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	Billing details and feedback Name	Name	Auto Number		✓	▼
	Created By	CreatedBy	Lookup(User)			▼
	Last Modified By	LastModifiedBy	Lookup(User)			▼
	Owner	OwnerId	Lookup(User,Group)		✓	▼
	Payment Paid	Payment_Paid_c	Currency(18, 0)			▼
	Rating for service	Rating_for_service_c	Text(1)			▼
	Service records	Service_records_c	Lookup(Service records)		✓	▼

Setup > Object Manager

Service records

Fields & Relationships		FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
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	Appointment	Appointment_c	Lookup(Appointment)		✓	▼
	Created By	CreatedBy	Lookup(User)			▼
	Last Modified By	LastModifiedBy	Lookup(User)			▼
	Owner	OwnerId	Lookup(User,Group)		✓	▼
	Quality Check Status	Quality_Check_Status_c	Checkbox			▼
	Service records Name	Name	Auto Number		✓	▼
	Service Status	Service_Status_c	Picklist			▼

Setup > Object Manager

Billing details and feedback

Fields & Relationships					
8 Items, Sorted by Field Label					
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Billing details and feedback Name	Name	Auto Number		✓	<input type="button" value="▼"/>
Created By	CreatedById	Lookup(User)			<input type="button" value="▼"/>
Last Modified By	LastModifiedById	Lookup(User)			<input type="button" value="▼"/>
Owner	OwnerId	Lookup(User,Group)		✓	<input type="button" value="▼"/>
Payment Paid	Payment_Paid__c	Currency(18, 0)			<input type="button" value="▼"/>
Payment Status	Payment_Status__c	Picklist			<input type="button" value="▼"/>
Rating for service	Rating_for_service__c	Text(1)			<input type="button" value="▼"/>
Service records	Service_records__c	Lookup(Service records)		✓	<input type="button" value="▼"/>

Setup > Object Manager

Service records

Fields & Relationships					
8 Items, Sorted by Field Label					
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED	
Appointment	Appointment__c	Lookup(Appointment)		✓	<input type="button" value="▼"/>
Created By	CreatedById	Lookup(User)			<input type="button" value="▼"/>
Last Modified By	LastModifiedById	Lookup(User)			<input type="button" value="▼"/>
Owner	OwnerId	Lookup(User,Group)		✓	<input type="button" value="▼"/>
Quality Check Status	Quality_Check_Status__c	Checkbox			<input type="button" value="▼"/>
service date	service_date__c	Formula (Date)			<input type="button" value="▼"/>
Service records Name	Name	Auto Number		✓	<input type="button" value="▼"/>
Service Status	Service_Status__c	Picklist			<input type="button" value="▼"/>

- Created the Validation rule for: Appointment object, Billing Details and Feed back objects.

The screenshot shows the Salesforce Object Manager interface for the 'Appointment' object. The left sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, etc. The main area displays a table titled 'Validation Rules' with one item:

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
Vehicle	Vehicle number plate	Please enter valid number	✓	Sandhiya sri V, 9/5/2025, 10:43 PM

The screenshot shows the Salesforce Object Manager interface for the 'Billing details and feedback' object. The left sidebar lists various setup options. The main area displays a table titled 'Validation Rules' with one item:

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	✓	Sandhiya sri V, 9/5/2025, 12:39 AM

● Create duplicate rules to Customer details Object for: Matching and Duplicate.

Matching Rule Detail

Object	Customer Details
Rule Name	Matching customer details
Unique Name	Matching_customer_details
Description	
Matching Criteria	(Customer Details: Gmail EXACT MatchBlank = FALSE) AND (Customer Details: Phone_number EXACT MatchBlank = FALSE)
Status	Active
Created By	Sandhiya sri V, 9/5/2025, 12:43 AM
Modified By	Sandhiya sri V, 9/5/2025, 12:43 AM

Duplicate Rule Detail

Rule Name	Customer Detail duplicate
Description	
Object	Customer Details
Record-Level Security	Enforce sharing rules
Action On Create	Allow
Action On Edit	Allow
Alert Text	Use one of these records?
Active	<input type="checkbox"/>
Matching Rule	<input checked="" type="checkbox"/> Matching customer details <input checked="" type="checkbox"/> Mapped
Conditions	
Created By	Sandhiya sri V, 9/5/2025, 12:46 AM
Modified By	Sandhiya sri V, 9/5/2025, 12:46 AM

● Created Profiles for: Manager and Sales Person.

The screenshot shows the Salesforce Setup interface with the 'Profiles' tab selected. The search bar at the top left contains the text 'profi'. The main content area displays the 'Profile Detail' for the 'Manager' profile. The profile details are as follows:

- Name:** Manager
- User License:** Salesforce
- Description:** (empty)
- Created By:** Sandhiya.sri V, 9/5/2025, 12:48 AM
- Modified By:** Sandhiya.sri V, 9/5/2025, 11:18 AM

Below the profile details, the 'Page Layouts' section is expanded, showing standard object layouts for various objects like Global, Email Application, Home Page Layout, Account, Alternative Payment Method, Appointment Invitation, and Asset. Each layout is linked to a specific assignment or template.

This screenshot is identical to the one above, showing the 'Manager' profile detail in the Salesforce Setup interface. The profile name is 'Manager', user license is 'Salesforce', and it was created by 'Sandhiya.sri V' on 9/5/2025. The 'Page Layouts' section is also visible, displaying the standard object layouts for various objects.

● Created Roles and Role Hierarchy for: Manager and Another.

The screenshot shows the Salesforce Setup interface with the 'Role' search term entered in the search bar. The 'Manager' role is selected under the 'Roles' section of the 'Users' category. The 'Role Detail' section displays the following information:

- Label:** Manager
- This role reports to:** CEO
- Modified By:** Sandhya.sri.V 9/5/2025, 1:29 AM
- Opportunity Access:** Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities
- Case Access:** Users in this role can edit all cases associated with accounts that they own, regardless of who owns the cases

The 'Users in Manager Role' section shows one user assigned to the role:

Action	Full Name	Alias	Username	Active
Edit	Niklaus Mikaelson	Alias	srcw2326144@srcw.ac.in	✓

The screenshot shows the Salesforce Setup interface with the 'Role' search term entered in the search bar. The 'Manager' role is selected under the 'Roles' section of the 'Users' category. The 'Role Detail' section displays the following information:

- Label:** Manager
- This role reports to:** CEO
- Modified By:** Sandhya.sri.V 9/5/2025, 1:29 AM
- Opportunity Access:** Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities
- Case Access:** Users in this role can edit all cases associated with accounts that they own, regardless of who owns the cases

The 'Users in Manager Role' section shows one user assigned to the role:

Action	Full Name	Alias	Username	Active
Edit	Niklaus Mikaelson	Alias	srcw2326144@srcw.ac.in	✓

● Created Users and Another user.

User Edit

General Information

First Name	Niklaus	Role	Manager
Last Name	Mikaelson	User License	Salesforce
Alias	Alias	Profile	Manager
Email	sandhiyavenkatesan32@gmail.com	Active	<input checked="" type="checkbox"/>
Username	srcw2326144@srcw.ac.in	Marketing User	<input type="checkbox"/>
Nickname	User175706161623554975	Offline User	<input type="checkbox"/>
Title		Knowledge User	<input type="checkbox"/>
Company		Flow User	<input type="checkbox"/>
Department		Service Cloud User	<input type="checkbox"/>
Division		Site.com Contributor User	<input type="checkbox"/>
		Site.com Publisher User	<input type="checkbox"/>
		WDC User	<input type="checkbox"/>
		Data.com User Type	None

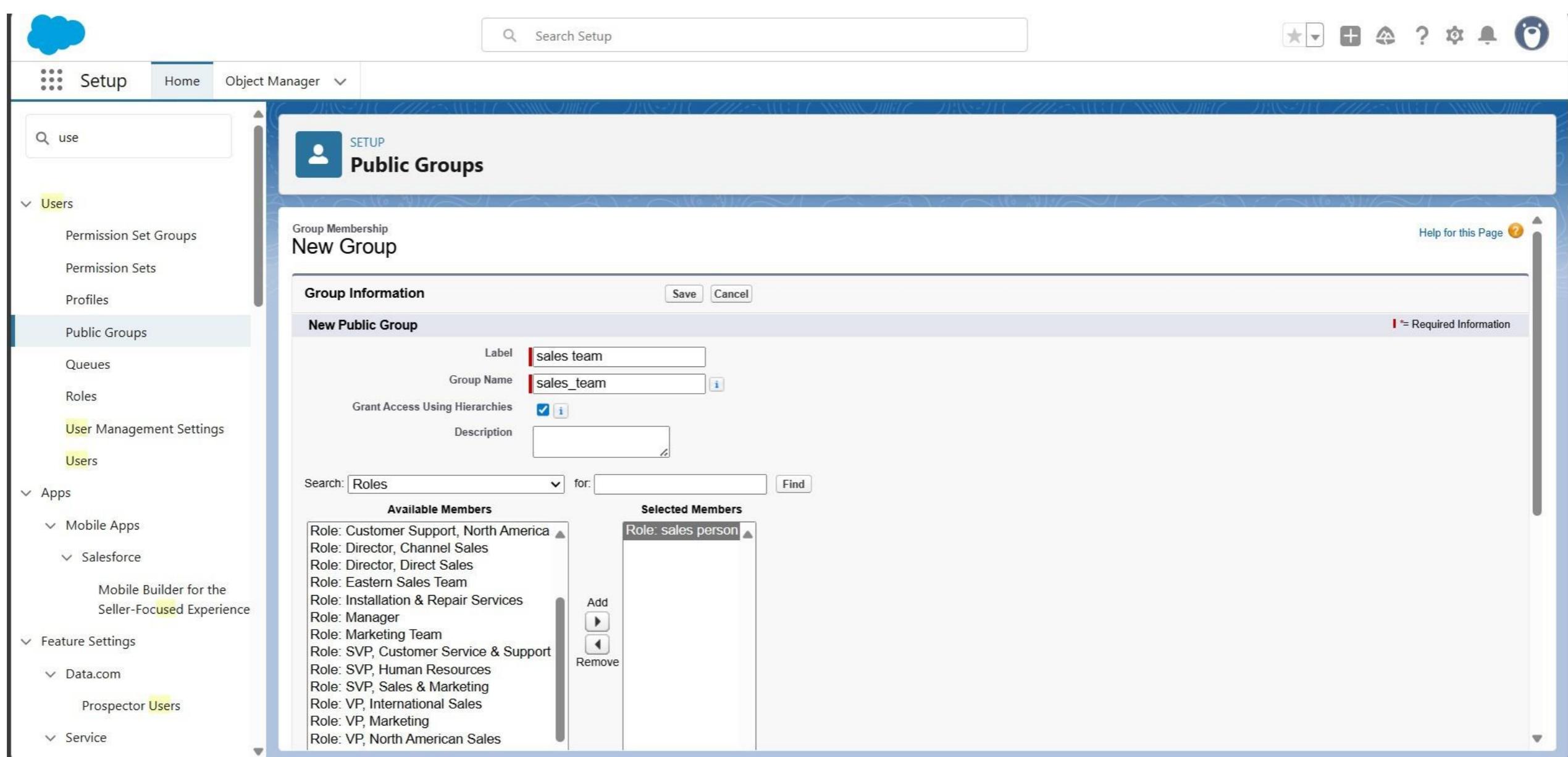
On this page you can create, view, and manage users.

To get more licenses, use the Your Account app. [Let's Go](#)

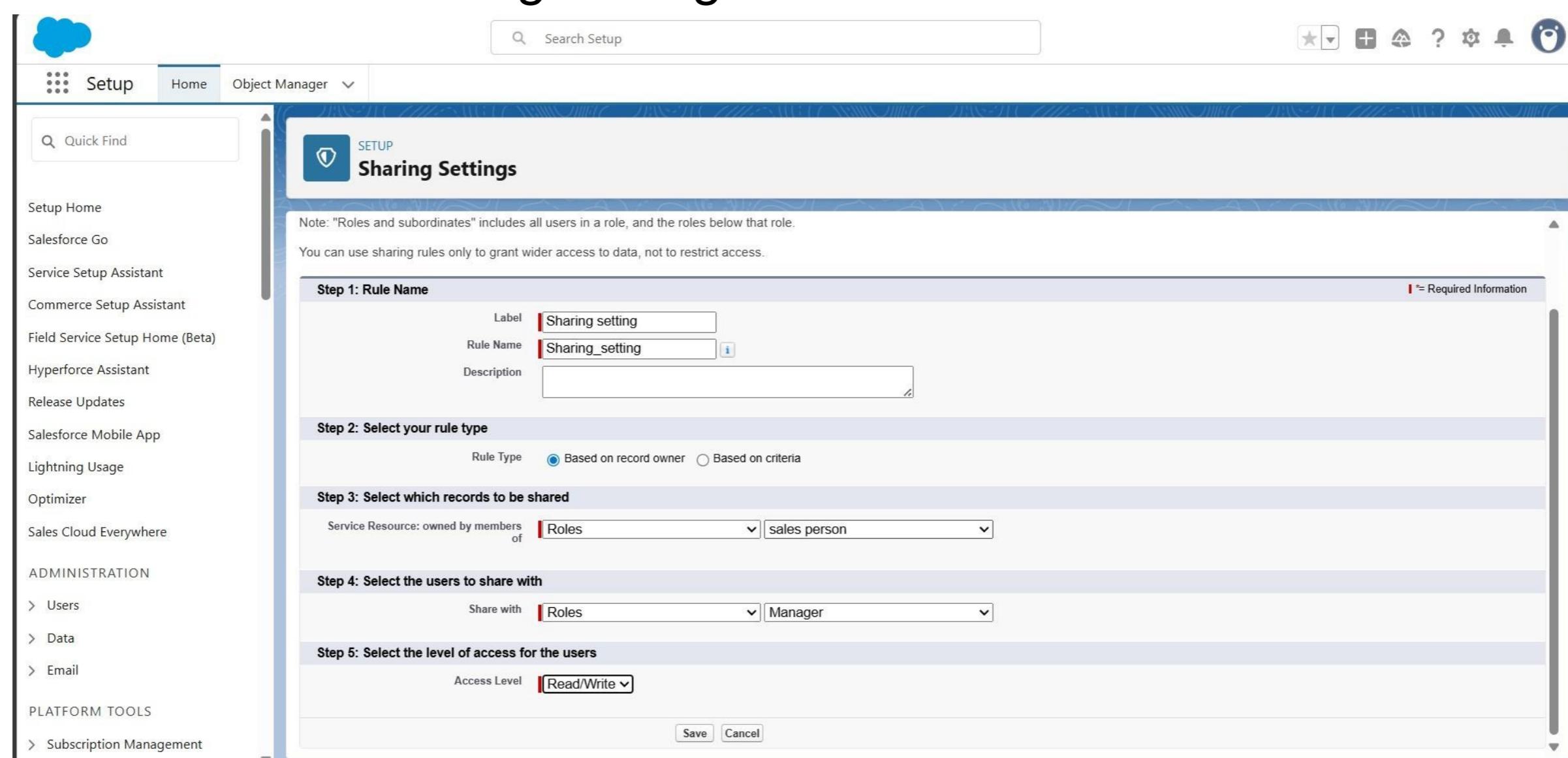
View: All Users | [Edit](#) | [Create New View](#)

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/> Edit	Chatter Expert	Chatter	chatty.00dgk00000aesbnuax.mpxpknslukho@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/> Edit	EPIC_OrgFarm	QEPIC	epic.ef3bbeff40b64@orgfarm.salesforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/> Edit	kumar_vijay	vkuma	sandhiyavenkatesan32@gmail.com		<input checked="" type="checkbox"/>	sales person
<input type="checkbox"/> Edit	Mikaelson_Niklaus	Alias	srcw2326144@srcw.ac.in	Manager	<input checked="" type="checkbox"/>	Manager
<input type="checkbox"/> Edit	sri_sandhiya	ssri	srcw2326106@srcw.ac.in		<input checked="" type="checkbox"/>	sales person
<input type="checkbox"/> Edit	User_Integration	integ	integration@00dgk00000aesbnuax.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/> Edit	User_Security	sec	insightssecurity@00dgk00000aesbnuax.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User
<input type="checkbox"/> Edit	V_Sandhiya_sri	src	srcw2326144137@agentforce.com		<input checked="" type="checkbox"/>	System Administrator

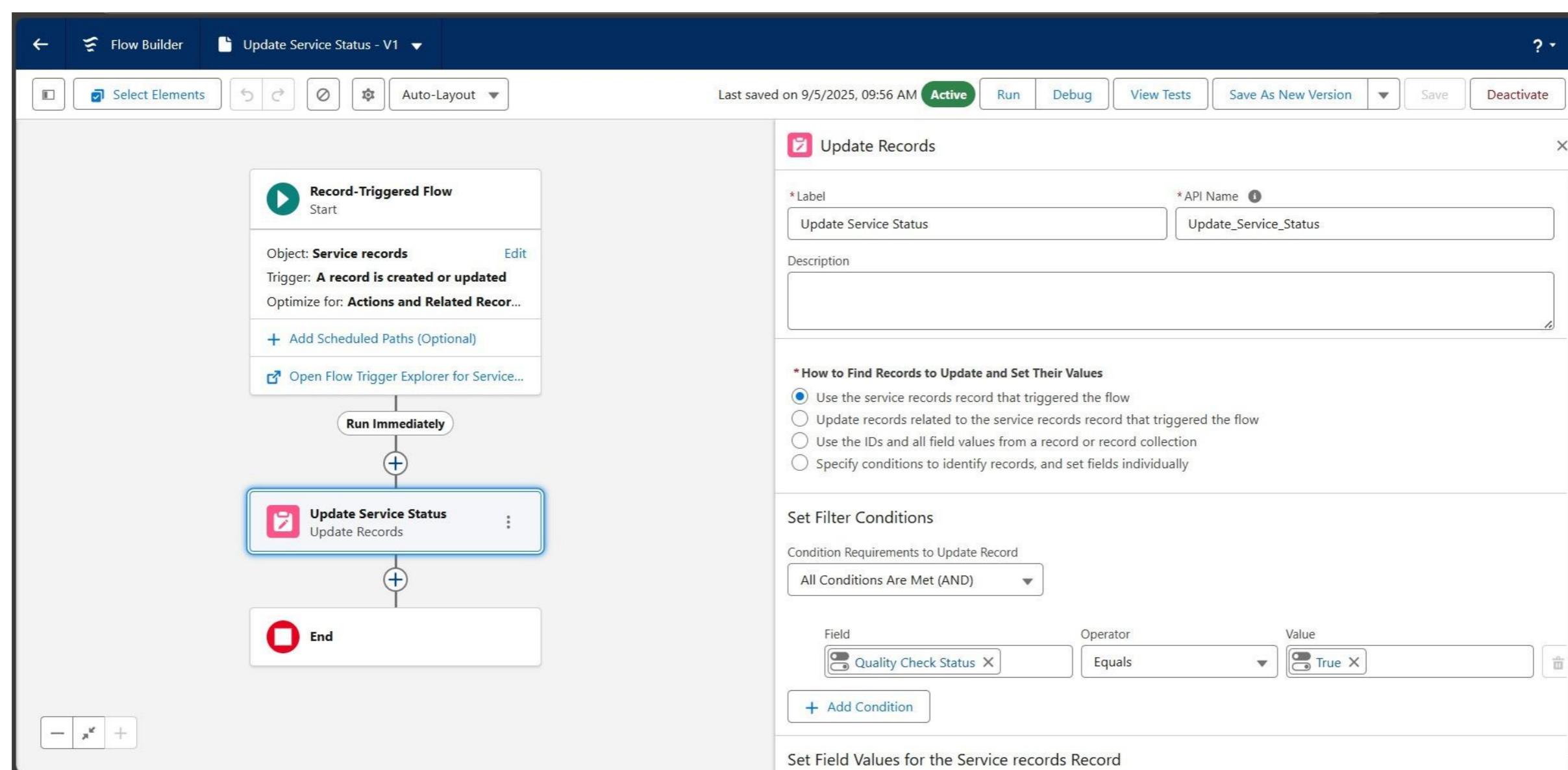
● Created new Public Groups.



● Created the Sharing Setting.



● Created Flow - Billing amount flow.



- Developed Apex Triggers:
Created Apex Class called AmountDistribution Handler.

Developer Console - Personal - Microsoft Edge

https://orgfarm-8e864f6e0a-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

AmountDistributionHandler.apxc AmountDistribution.apxt

Code Coverage: None API Version: 64 Go To

```
1 public class AmountDistributionHandler {  
2     |  
3     public static void amountDist(list<Appointment__c> listApp){  
4         |  
5         list<Service_records__c> serList = new list <Service_records__c>();  
6         |  
7         |  
8         |  
9         for(Appointment__c app : listApp){  
10             |  
11             if(app.Maintenance_service__c == true && app.Repairs__c == true && app.Replacement_Parts__c == true){  
12                 |  
13                 app.Service_Amount__c = 10000;  
14             }  
15             |  
16             else if(app.Maintenance_service__c == true && app.Repairs__c == true){  
17                 |  
18                 app.Service_Amount__c = 5000;  
19             }  
20         }  
21     }  
22 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time ▾	Status	Read	Size

Filter Click here to filter the log list

Created an Apex trigger called AmountDistribution.

Developer Console - Personal - Microsoft Edge

https://orgfarm-8e864f6e0a-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >

AmountDistributionHandler.apxc AmountDistribution.apxt

Code Coverage: None API Version: 64 Go To

```
1 trigger AmountDistribution on Appointment__c (before insert, before update) {  
2  
3     if(trigger.isbefore && trigger.isinsert || trigger.isupdate){  
4         AmountDistributionHandler.amountDist(trigger.new);  
5     }  
6 }  
7  
8  
9
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time ▾	Status	Read	Size
------	-------------	-----------	--------	--------	------	------

● Created Report folders, Report type, Report and shared Report folder.

The screenshot shows the Salesforce Reports page with a 'Recent' section on the left. A modal window titled 'Create folder' is open in the center. It contains fields for 'Folder Label' (Garage Management Folder) and 'Folder Unique Name' (GarageManagementFolder). At the bottom are 'Cancel' and 'Save' buttons. The background shows a list of reports and folders.

The screenshot shows the Salesforce Reports page with a 'All Folders' section on the left. A modal window titled 'Share folder' is open in the center. It has sections for 'Share With' (Roles: Manager, Access: View), 'Who Can Access' (Vekarnika B Users), and a 'Done' button at the bottom. The background shows a list of folders.

Setup Home

Salesforce Go

Service Setup Assistant

Commerce Setup Assistant

Field Service Setup Home (Beta)

Hyperforce Assistant

Release Updates

Salesforce Mobile App

Lightning Usage

Optimizer

Sales Cloud Everywhere

ADMINISTRATION

- > Users
- > Data
- > Email

PLATFORM TOOLS

- > Subscription Management

Quick Find

Search Setup

Select related objects to define which records are included in reports using this report type.

A Customer Details Primary Object

B Appointments A to B Relationship:

- Each "A" record must have at least one related "B" record.
- "A" records may or may not have related "B" records.

C Service records B to C Relationship:

- Each "B" record must have at least one related "C" record.
- "B" records may or may not have related "C" records.

D Billing details and feedback C to D Relationship:

Billing details and feedback

Cancel Save

Setup Home Object Manager

report

Feature Settings

- Analytics
- Reports & Dashboards
- Access Policies
- Historical Trending
- Report Types**
- Reporting Snapshots
- Reports and Dashboards
- Settings

Security

- Guest User Sharing Rule Access
- Report

Didn't find what you're looking for?
Try using Global Search.

Details

Display Label	Service information
API Name	Service_information
Description	Service information
Created By	Sandhiya sri V, 9/6/25, 6:51 PM
Store in Cat...	other
Deploymen...	Deployed
Modified By	Sandhiya sri V, 9/6/25, 6:51 PM

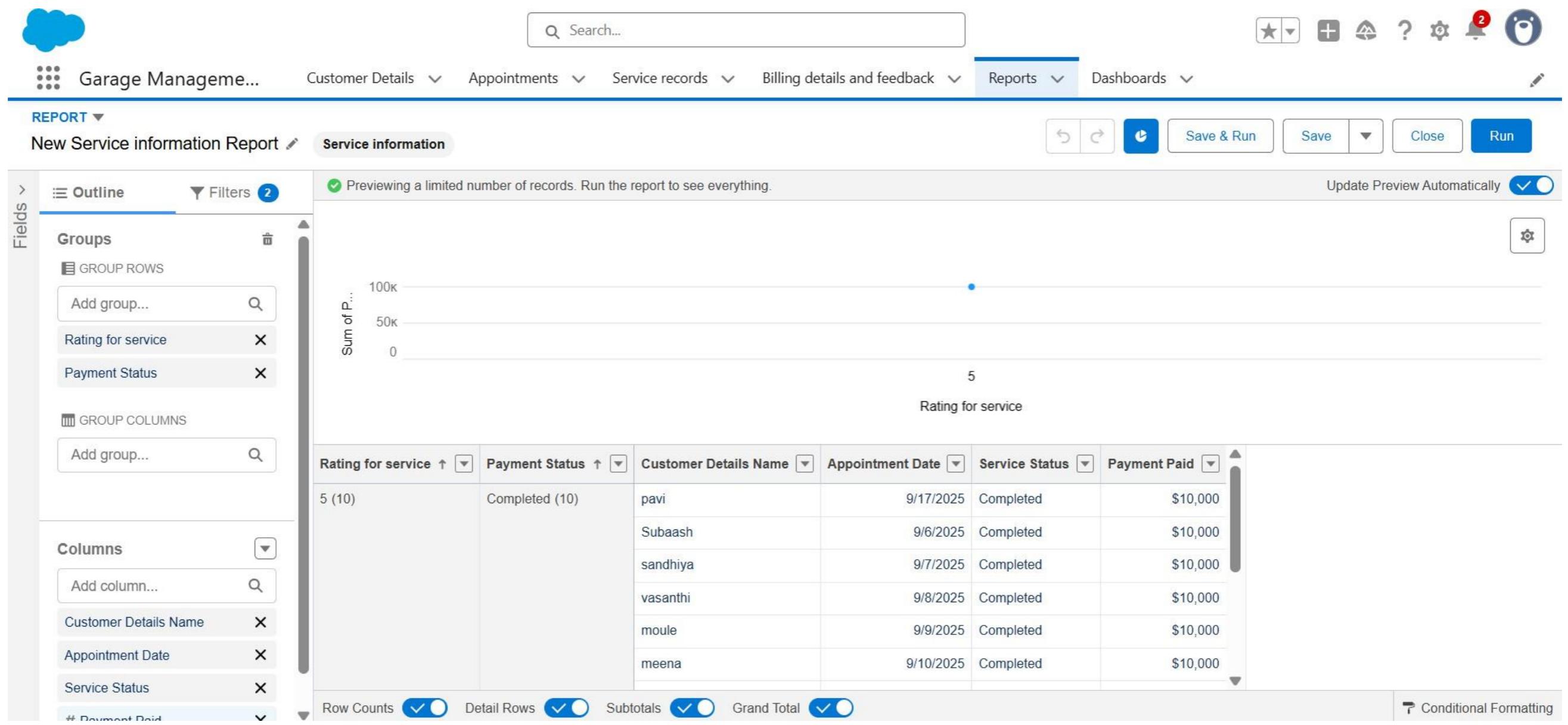
Object Relationships

Customer Details (A)

- with at least one related record from Appointments (B)
- with at least one related record from Service records (C)
- with at least one related record from Billing data (D)

Fields

Source Object	Included Fields
Customer Details	10
Appointments	16
Service records	12
Billing details and feedback	12



● Created Dashboards and Dashboard folders.

The screenshot shows the Garage Management System interface with a dashboard titled "Recent".

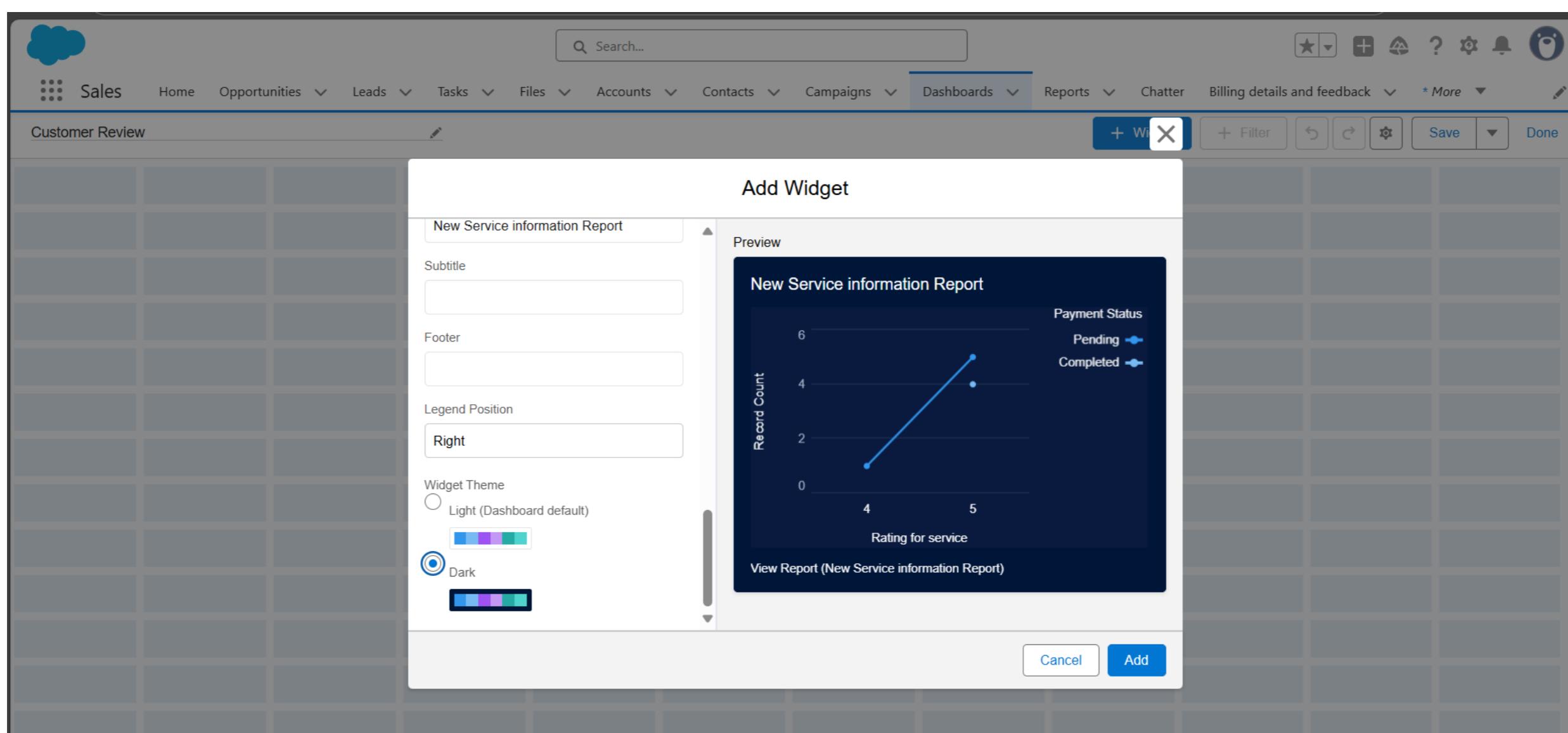
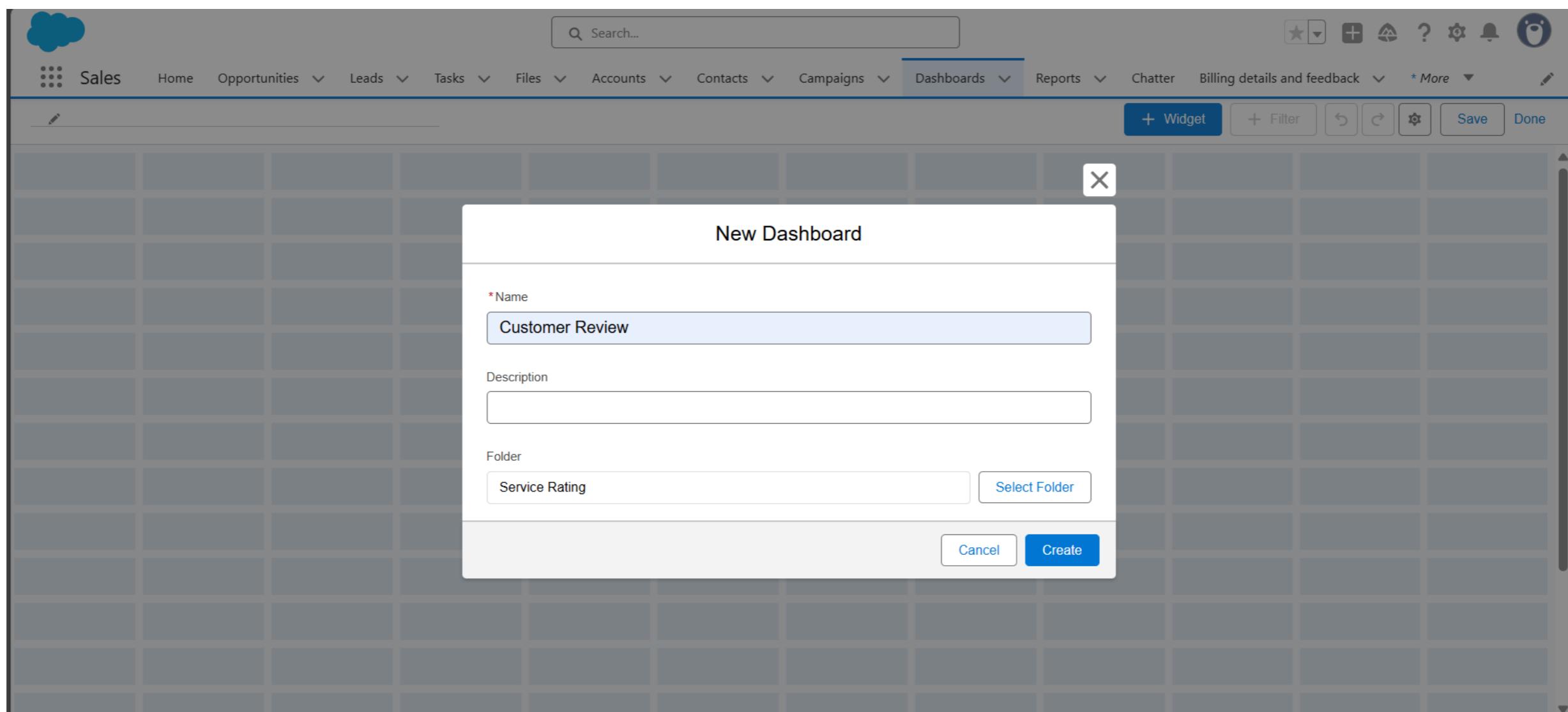
Recent Dashboards:

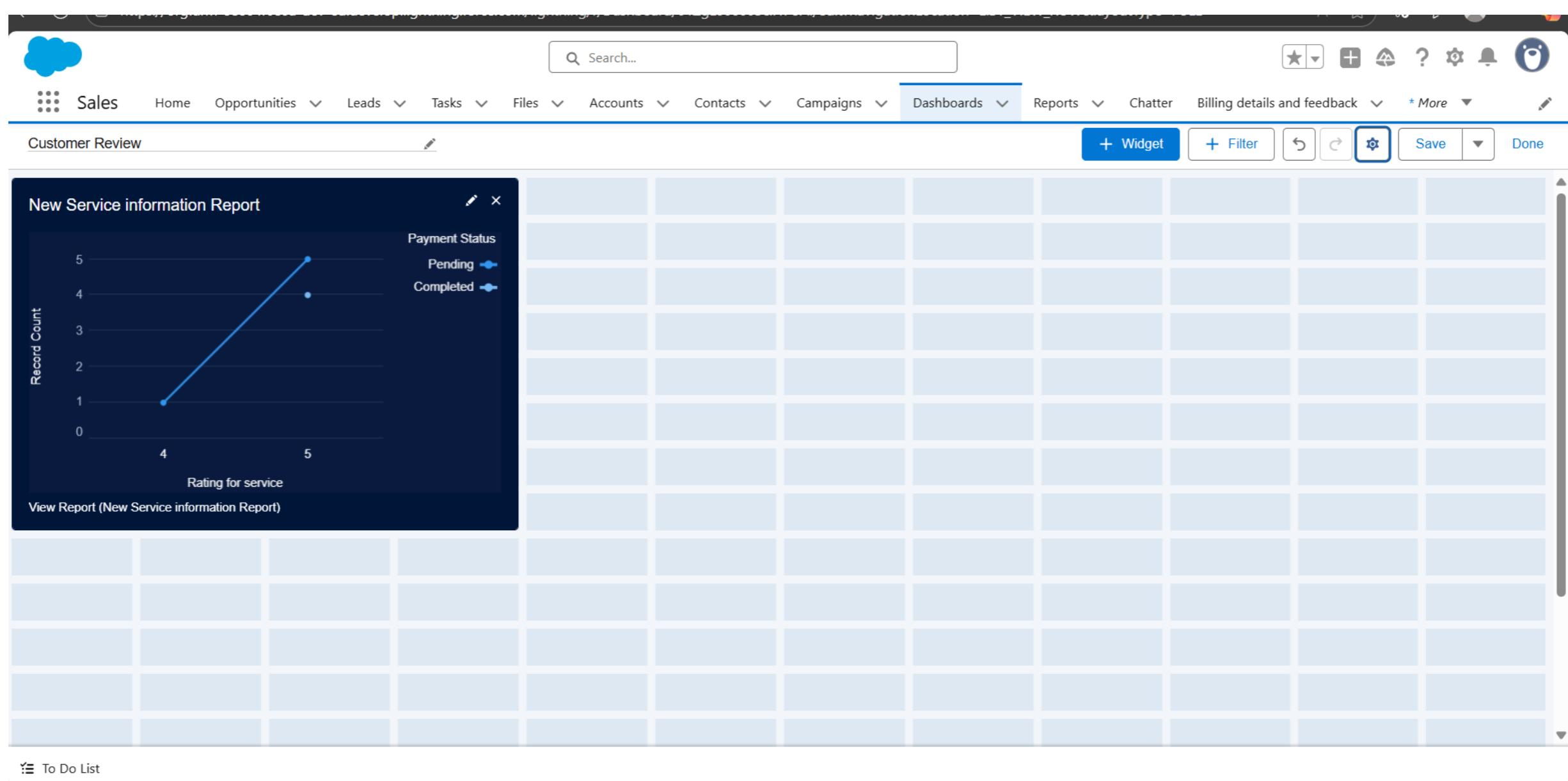
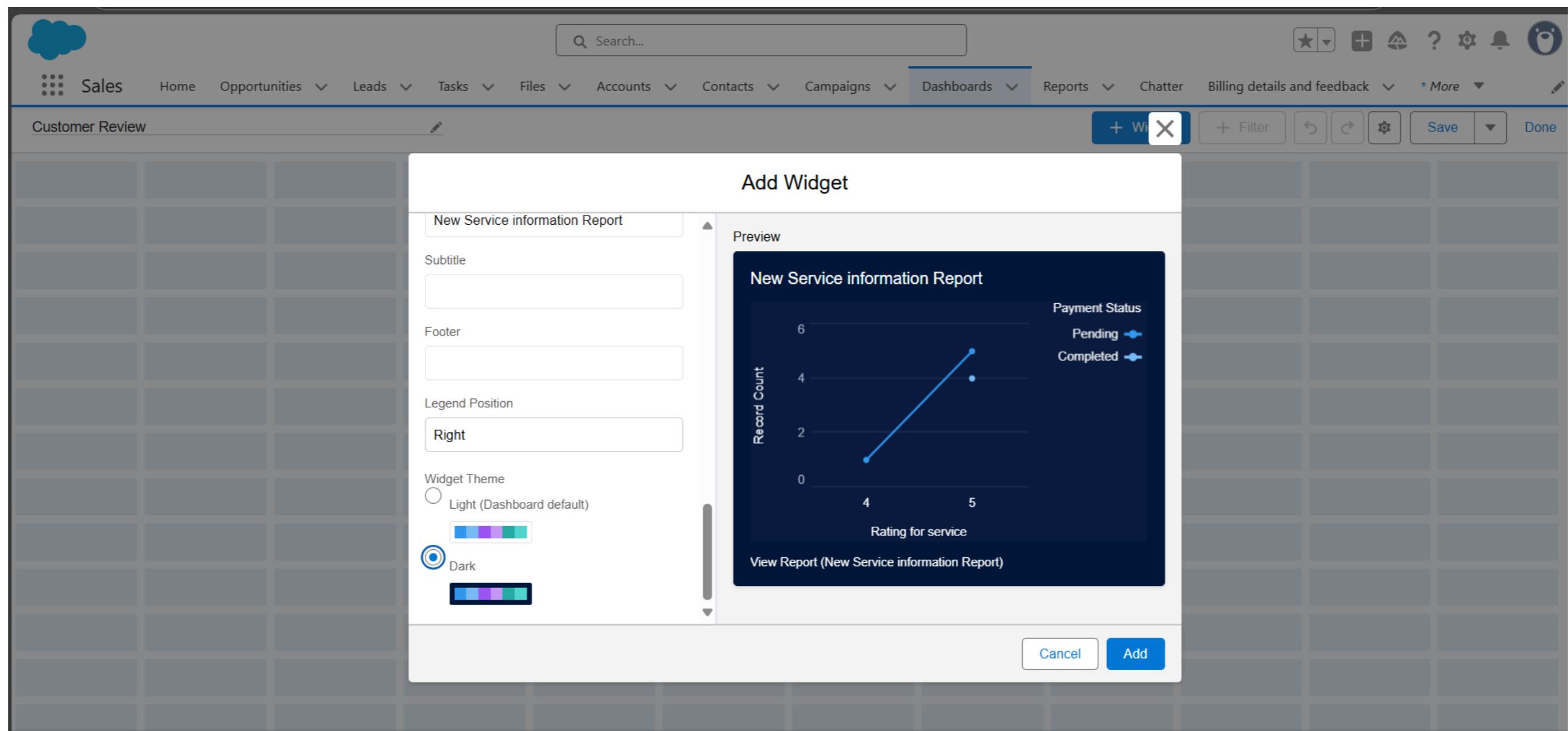
DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Customer review	Service Rating dashboard	Sandhiya sri V	9/6/2025, 8:00 AM	✓	

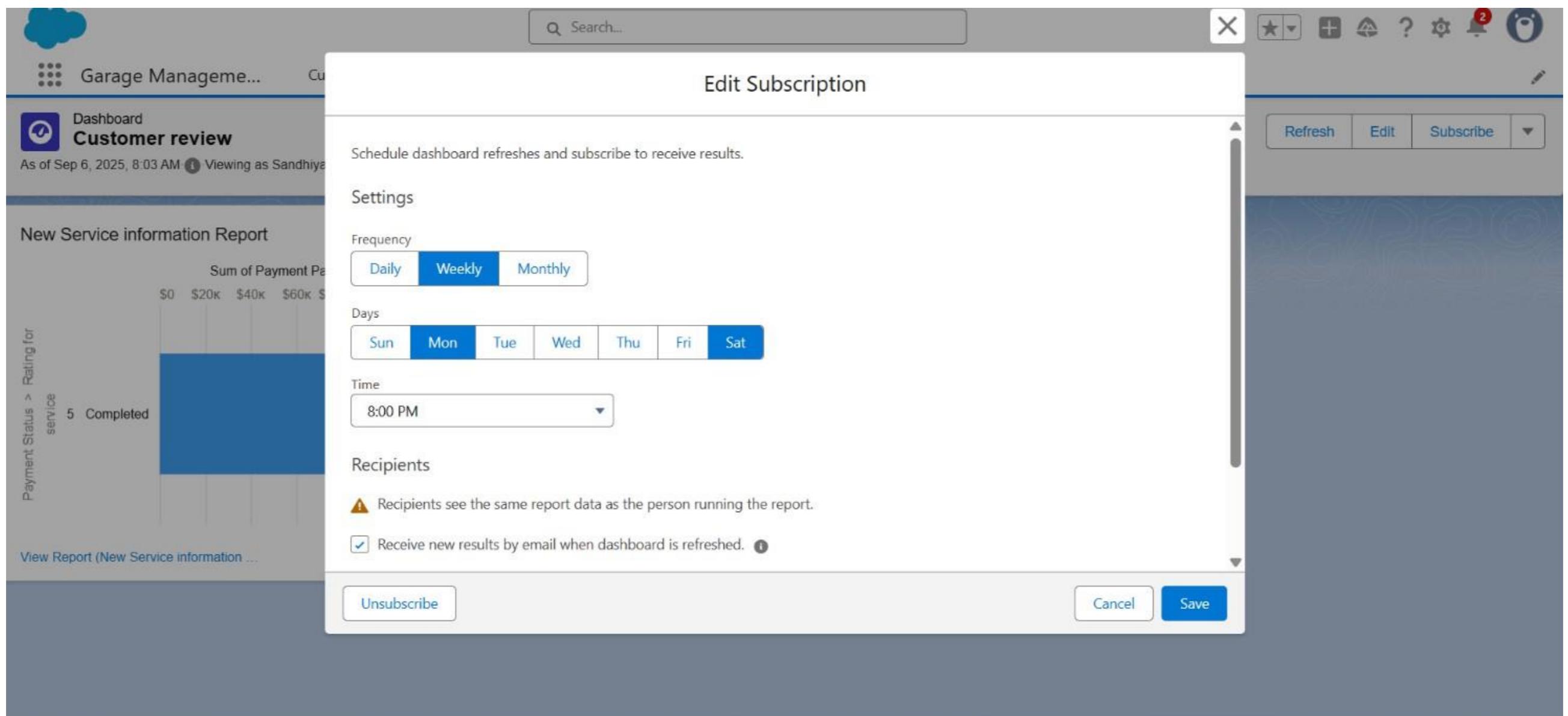
Navigation:

- Dashboards
- Recent
- 1 item
- Created by Me
- Private Dashboards
- All Dashboards
- FOLDERS
- All Folders
- Created by Me
- Shared with Me
- FAVORITES
- All Favorites

System status bar at the bottom right shows ENG IN, 08:55 PM, 06-09-2025.







1. ADVANTAGES & DISADVANTAGES

Advantages of Garage Management System:

- **Centralized Data Management** – All customer, vehicle, and service records are stored in one place, improving accessibility and reducing data duplication.
- **Improved Customer Experience** – Automated service reminders, transparent billing, and quick updates enhance customer trust and satisfaction.
- **Operational Efficiency** – Streamlines job scheduling, inventory tracking, and billing, reducing manual effort and errors.
- **Scalability** – Built on Salesforce, the system can easily expand with additional modules or features as the business grows.

g r o w s.

- **Integration Capabilities** – Seamlessly integrates with CRM, payment systems, and other Salesforce apps for smooth workflows.
- **Analytics & Reporting** – Real-time dashboards and reports help managers track performance, revenue, and customer trends.

Disadvantages of Garage Management System:

- **Cost of Implementation** – Licensing, customization, and ongoing Salesforce subscription costs may be high for small garages.
 - **Learning Curve** – Staff may require training to adapt to Salesforce's interface and features.
 - **Customization Dependency** – Advanced requirements often need Salesforce developers/consultants, increasing dependency.
 - **Internet Reliance** – Being a cloud-based system, uninterrupted internet is essential for smooth operations.
 - **Overhead for Small Businesses** – Smaller repair shops may find the system more complex than needed for basic operations.
-

3. CONCLUSION

The Garage Management System streamlines operations, enhances customer satisfaction, and supports business growth, making it a reliable solution for modern automotive repair facilities.

4. RESULTS

Output Screenshots

The screenshot shows the Salesforce Home page for the Sales team. The top navigation bar includes links for Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, Groups, Calendar, and More. A search bar is at the top right. The main content area features several key performance indicators (KPIs):

- Plan My Accounts:** Shows 0 Accounts owned by me. It includes three activity status counts: 0 Upcoming Activity (green), 0 Past Activity (blue), and 0 No Activity (red). A "View Accounts" button is present.
- Grow Relationships:** Shows 0 Contacts owned by me and created in the last 90 days. It includes three activity status counts: 0 Upcoming Activity (green), 0 Past Activity (blue), and 0 No Activity (red). A "View Contacts" button is present.
- Build Pipeline:** Shows Leads owned by me and created in the last 30 days. It includes a progress bar indicating 0 Upcoming Activity (green).
- My Goals:** Allows users to set personal weekly or monthly goals for emails, calls, and meetings. It features a plus sign icon and a checkmark icon.
- Today's Events:** Displays a calendar-like interface showing events for the day, represented by icons of a sun, mountains, and birds.

On the left, there is an App Launcher with a search bar containing "Ga". Below it, sections for Apps (Garage Management Application) and Items (Capability Navigator, Data Use Legal Basis, Engagement Channel Types, Legal Entities, Payment Gateway Logs) are listed. A "View Opportunities" button is also present.

The screenshot shows the Garage Management application interface. The top navigation bar includes links for Customer Details, Appointments, Service records, Billing details and feedback, Reports, Dashboards, and more. A search bar is at the top right. On the left, a sidebar titled "Recently Viewed" lists 11 items, with "Customer Details Name" currently selected. The main content area displays a "New Customer Details" dialog box:

New Customer Details

* = Required Information

Information

*Customer Details Name	Mac
Phone number	5678765567
Gmail	Mac@gmail.com

Owner: Sandhiya sri V

Buttons at the bottom: Cancel, Save & New, Save

The background shows a list of customer names from the recently viewed list.

Edit app-039

* = Required Information

Appointment Name	Owner
app-039	Sandhiya sri V
Customer Details	
Mac	
Phone number	
Appointment Date	9/5/2025
Maintenance service	<input checked="" type="checkbox"/>
Repairs	<input checked="" type="checkbox"/>
Replacement Parts	<input type="checkbox"/>
Service Amount	\$5,000

Cancel Save & New Save

New Service records

* = Required Information

Information	Owner
Service records Name	Sandhiya sri V
Phone number	
*Appointment	app-039
Quality Check Status	<input type="checkbox"/>
Service Status	Started

Cancel Save & New Save

This screenshot shows a service record detail page for 'ser-022' in a 'Garage Management' system. The top navigation bar includes links for Customer Details, Appointments, Service records (selected), Billing details and feedback, Reports, and Dashboards. The main content area has tabs for 'Related' and 'Details'. Under 'Details', fields include Service records Name (ser-022), Owner (Sandhiya sri V), Phone number, Appointment (app-039), Quality Check Status (checked), Service Status (Completed), service date (9/6/2025), Created By (Sandhiya sri V, 9/6/2025, 8:21 AM), and Last Modified By (Sandhiya sri V, 9/6/2025, 8:21 AM). To the right is an 'Activity' section with a toolbar, filters (All time, All activities, All types), and a message stating 'No activities to show. Get started by sending an email, scheduling a task, and more.' It also notes 'No past activity. Past meetings and tasks marked as done show up here.'

This screenshot shows a service record detail page for 'ser-022' in a 'Garage Management' system. The top navigation bar includes links for Customer Details, Appointments, Service records (selected), Billing details and feedback, Reports, and Dashboards. The main content area has tabs for 'Related' and 'Details'. Under 'Details', fields include Service records Name (ser-022), Owner (Sandhiya sri V), Phone number, Appointment (app-039), Quality Check Status (checked), Service Status (Completed), service date (9/6/2025), Created By (Sandhiya sri V, 9/6/2025, 8:21 AM), and Last Modified By (Sandhiya sri V, 9/6/2025, 8:21 AM). To the right is an 'Activity' section with a toolbar, filters (All time, All activities, All types), and a message stating 'No activities to show. Get started by sending an email, scheduling a task, and more.' It also notes 'No past activity. Past meetings and tasks marked as done show up here.'

5. APPENDIX

- **Source Code: Provided in Apex Classes and Triggers**

To create apex class (AmountDistributionHandler)

```
public class AmountDistributionHandler {  
  
    public static void amountDist(list<Appointment__c> listApp){  
  
        list<Service_records_c> serList = new list  
<Service_record s_c>();  
  
        for(Appointment_c app : listApp){  
  
            if(app.Maintenance_service_c == true && app.Repairs_c == true &&  
app.ReplaceParts_c == true){  
  
                app.Service_Amount_c = 10000;  
  
            }  
  
            else if(app.Maintenance_service_c == true && app.Repairs_c ==  
true){  
  
                app.Service_Amount_c = 5000;  
  
            }  
  
            else if(app.Maintenance_service_c== true  
&& app.ReplaceParts_c == true){  
        }
```

```
app.Service_Amount_c = 80 00;
```

```
}
```

```
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;
```

```
}
```

```
}
```

}

}

AmountDistribution - Apex Trigger:

```
trigger AmountDistribution on Appointment__c (before insert,  
before update) {  
  
    if(trigger.isbefore && trigger.isinsert || trigger.isupdate){  
  
        AmountDistributionHandler.amountDist(trigger.new);  
  
    }  
  
}
```
