

# Garage Management system

**Project Title** : Garage Management system  
**College** : Kg College of arts and science  
**Team ID** : NM2025TMID23758  
**Team Size** : 4

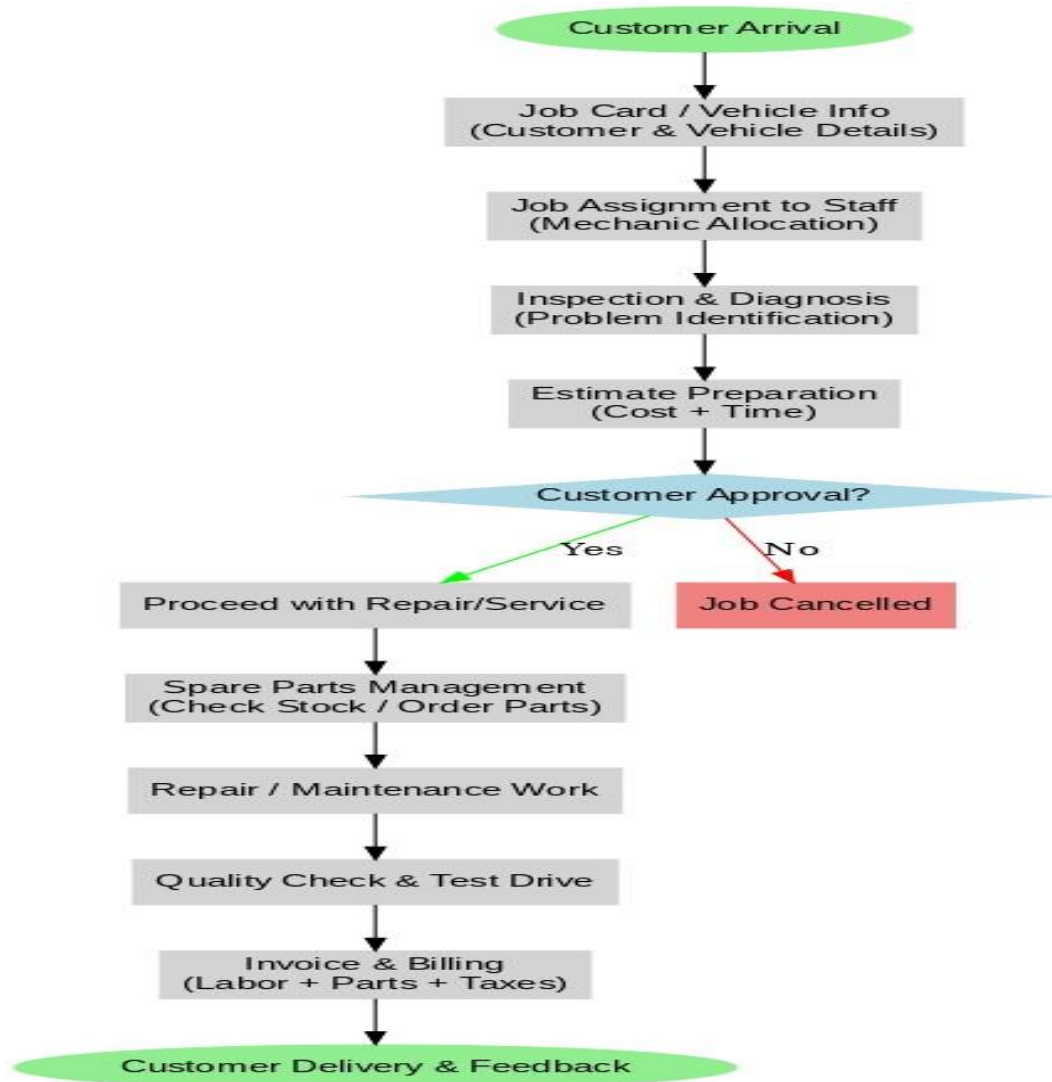
## Team Member Details:

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**Email** : [2326ka46@kgcas.com](mailto:2326ka46@kgcas.com)
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4. **Team Member** : Shahataj Z  
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## INTRODUCTION:

### 1.1 Project Overview

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.



## 1.2 Purpose

The purpose of the Garage Management System is to streamline and automate the daily operations of automotive repair facilities. It provides a centralized platform for managing customer details, vehicle information, job assignments,

repair workflows, spare parts inventory, billing, and customer feedback. By digitizing these processes, GMS enhances operational efficiency, reduces errors, ensures timely service delivery, and improves customer satisfaction. Ultimately, it empowers garages to deliver high-quality service, maintain better resource utilization, and thrive in a competitive automotive service industry.

## DEVELOPMENT PHASE

### Creating Developer Account:

By using this URL: <https://developer.salesforce.com/signup>

The screenshot shows the Salesforce Developer Edition sign-up page. The left side features a purple background with the text "Build enterprise-quality apps fast and get hands-on with Agentforce and Data Cloud." Below this, it says "Sign up for your Developer Edition." and lists several benefits: "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", and "Integrate with anything using APIs". There are also two cartoon robot characters and a "Steps" section with "1 Select type" and options for "Customer Support", "Sales Coach", and "Sales Development".

The right side is a white form titled "Sign up for your Developer Edition" with the subtitle "A free Salesforce Platform environment with Agentforce and Data Cloud". The form contains the following fields and information:

- First name: Sameena
- Last name: S
- Job title: Garage Management
- Work email: 2326kb45@kgcas.co
- Company: Kg College Of Arts and
- Country/Region: India

Below the form, there is a checkbox for "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." and a checkbox for "I'm not a robot". At the bottom of the form is a "Sign Me Up" button.

Created objects:

Screenshot of the Salesforce Object Manager interface. The browser address bar shows the URL: `orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/home`. The page title is "Object Manager". A search bar is visible. A dropdown menu is open, showing options: "New Object", "RECENT RECORDS", "Billing details and feedback:", "Service records", "Appointment", "Customer Details", and "Customer Detail". The main table lists various objects with columns: LABEL, NAME, TYPE, DESCRIPTION, LAST MODIFIED, and DEPLOYED. The table includes objects like Account, Activity, Address, Agent Work, Alternative Payment Method, API Anomaly Event Store, Appointment, Appointment Category, Appointment Invitation, Appointment Invitee, Appointment Topic Time Slot, Approval Submission, Approval Submission Detail, Approval Work Item, and Asset. The "Appointment" object is highlighted, showing it was last modified on 9/13/2025 and is deployed.

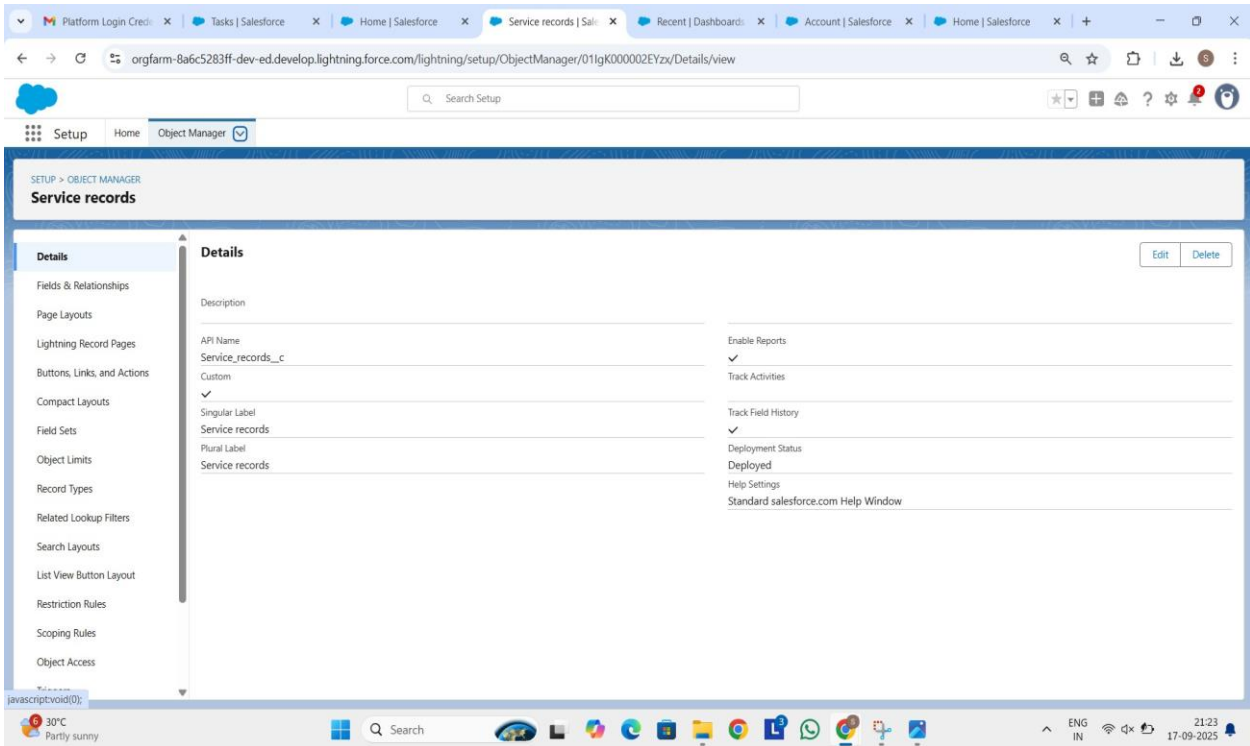
LABEL	NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Account	Account	Standard Object			
Activity	Activity	Standard Object			
Address	Address	Standard Object			
Agent Work	AgentWork	Standard Object			
Alternative Payment Method	AlternativePaymentMethod	Standard Object			
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object			
Appointment	Appointment_c	Custom Object		9/13/2025	✓
Appointment Category	AppointmentCategory	Standard Object			
Appointment Invitation	AppointmentInvitation	Standard Object			
Appointment Invitee	AppointmentInvitee	Standard Object			
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object			
Approval Submission	ApprovalSubmission	Standard Object			
Approval Submission Detail	ApprovalSubmissionDetail	Standard Object			
Approval Work Item	ApprovalWorkItem	Standard Object			
Asset	Asset	Standard Object			

Billing details and feedback:

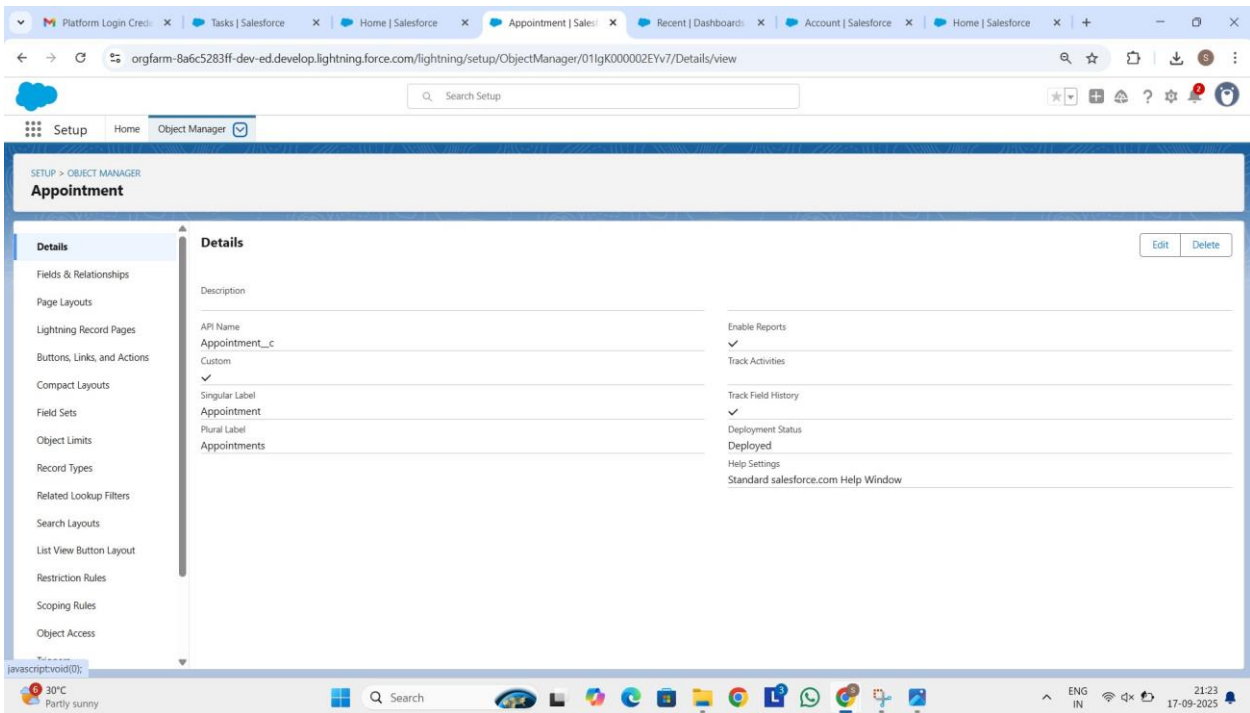
Screenshot of the Salesforce Object Manager interface showing the "Billing details and feedback" details page. The browser address bar shows the URL: `orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000002EZ1Z/Details/view`. The page title is "Billing details and feedback". A sidebar on the left lists various configuration options: 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, and Object Access. The main content area shows the "Details" for the "Billing details and feedback" object. It includes fields for Description, API Name (Billing\_details\_and\_feedback\_c), Custom (checked), Singular Label (Billing details and feedback), Plural Label (Billing details and feedback), and a list of settings: Enable Reports (checked), Track Activities (checked), Track Field History (checked), Deployment Status (Deployed), Help Settings (Standard salesforce.com Help Window), and Standard salesforce.com Help Window.

Field	Value
Description	
API Name	Billing_details_and_feedback_c
Custom	✓
Singular Label	Billing details and feedback
Plural Label	Billing details and feedback
Enable Reports	✓
Track Activities	✓
Track Field History	✓
Deployment Status	Deployed
Help Settings	Standard salesforce.com Help Window
Standard salesforce.com Help Window	

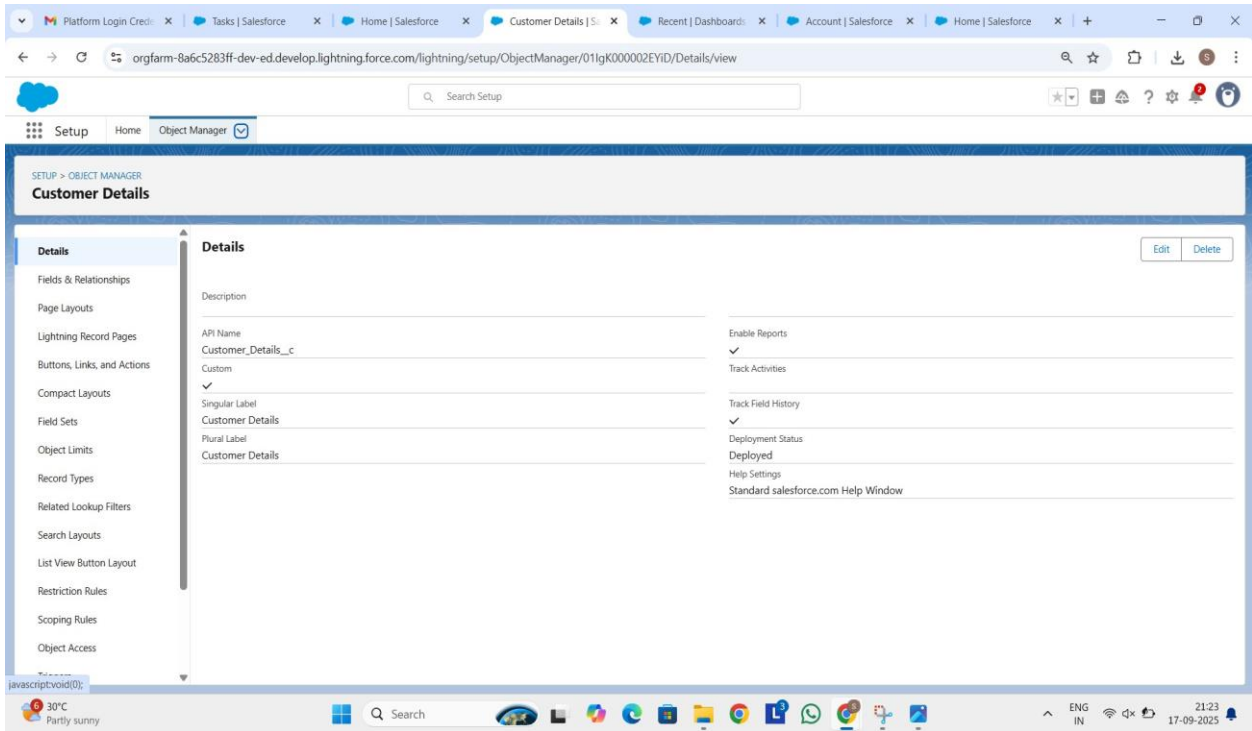
Service records:



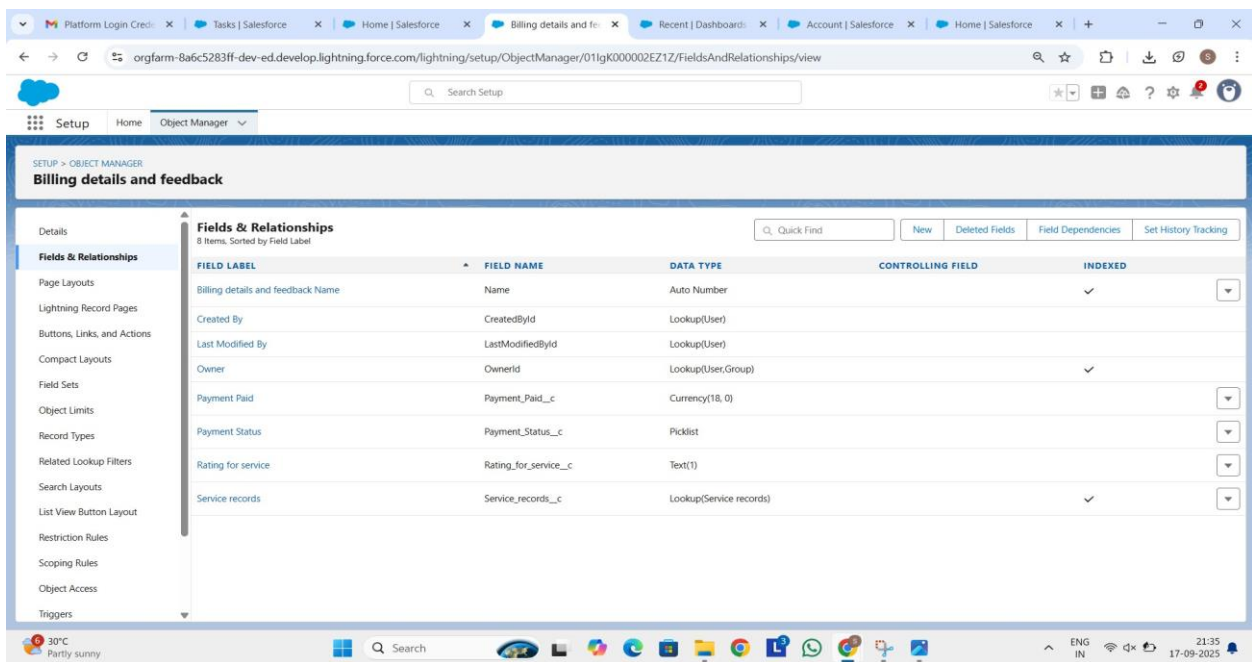
Appointment:



Customer Details:



Configured fields and relationship:  
Billing details and feedback:



Service records:



Platform Login Cred... x Tasks | Salesforce x Home | Salesforce x Service records | Sal... x Recent | Dashboards x Account | Salesforce x Home | Salesforce x +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000002EYzz/FieldsAndRelationships/view

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

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 date	service_date__c	Formula (Date)		
Service records Name	Name	Auto Number		✓
Service Status	Service_Status__c	Picklist		

30°C Partly sunny

Search

ENG IN 21:40 17-09-2025

Appointment:

Platform Login Cred... x Tasks | Salesforce x Home | Salesforce x Appointment | Sales... x Recent | Dashboards x Account | Salesforce x Home | Salesforce x +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000002EYv7/FieldsAndRelationships/view

Search Setup

Setup Home Object Manager

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		
Owner	OwnerId	Lookup(User,Group)		✓
Repairs	Repairs__c	Checkbox		
Replacement Parts	Replacement_Parts__c	Checkbox		
Service Amount	Service_Amount__c	Currency(18, 0)		
Vehicle number plate	Vehicle_number_plate__c	Text(10) (Unique Case Insensitive)		✓

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Search

ENG IN 21:41 17-09-2025

Customer Details:

Platform Login Cred... x Tasks | Salesforce x Home | Salesforce x Customer Details | x Recent | Dashboard x Account | Salesforce x Home | Salesforce x + -

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01lgK000002EYID/FieldsAndRelationships/view

Setup Home Object Manager

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		

30°C Partly sunny Search ENG IN 21:42 17-09-2025

Developed Lightning App:

Platform Login Cred... x Tasks | Salesforce x Home | Salesforce x Lightning Usage x App Manager | x Recent | Dashboard x Account | Salesforce x Home | Salesforce x + -

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/NavigationMenus/home

Setup Home Object Manager

Lightning Experience App Manager

New Lightning App New External Client App

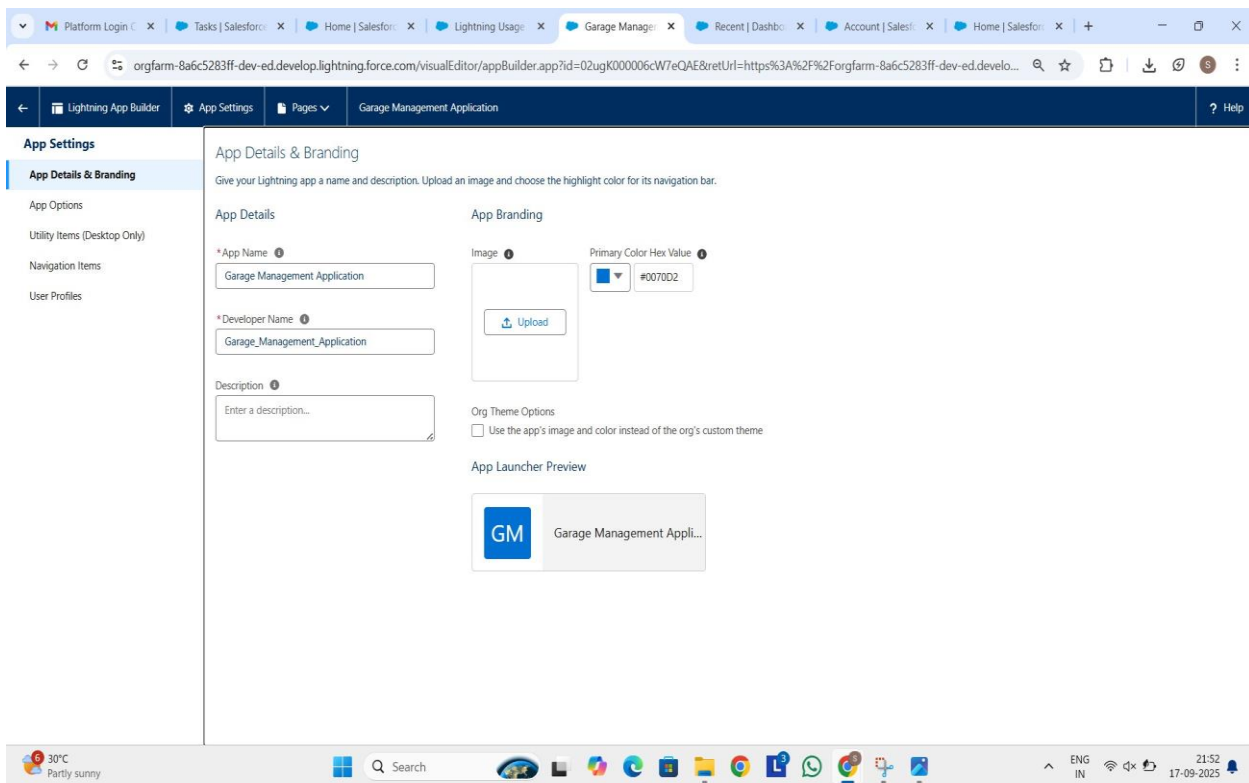
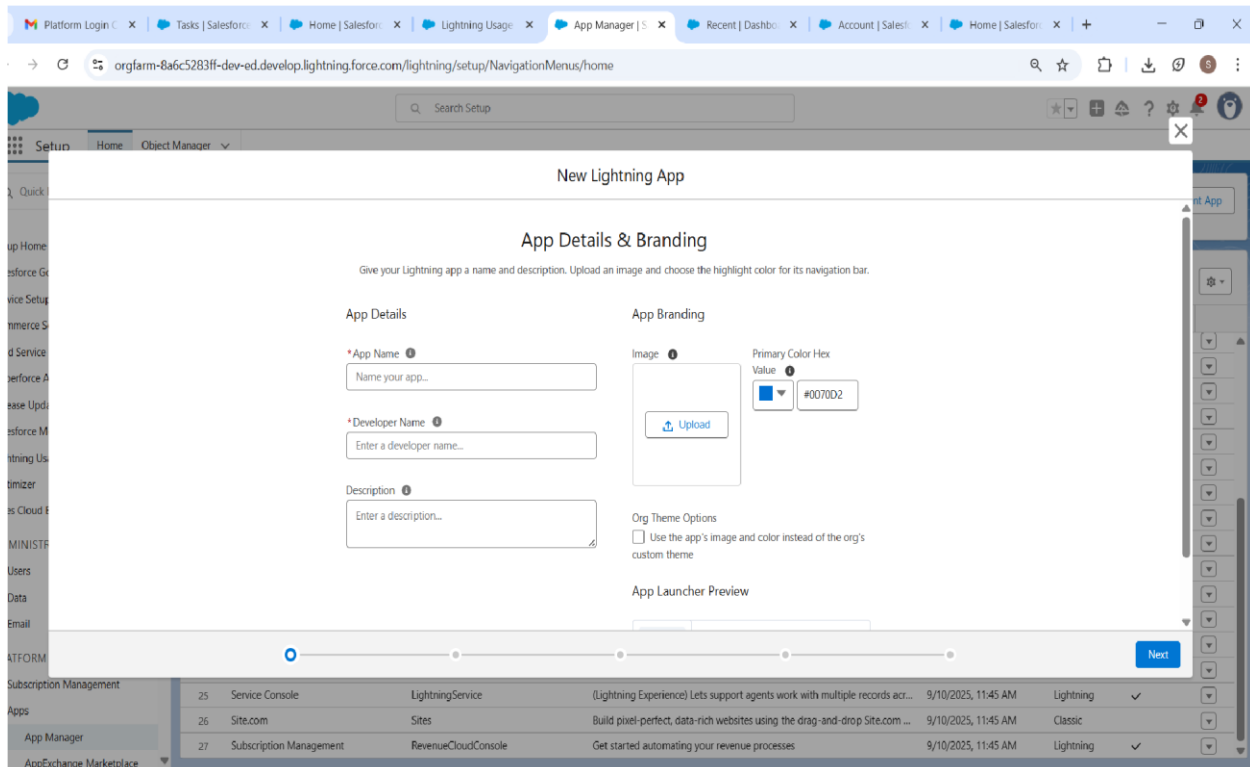
27 Items • Sorted by App Name • Filtered by All appmenutems - TabSet Type, App Type

App Name ↑	Developer Name	Description	Last Modified Date	App Type	Visible L...
11 Digital Experiences	SalesforceCMS	Manage content and media for all of your sites.	9/10/2025, 11:45 AM	Lightning	✓
12 Garage Management Application	Garage_Management_Application		9/13/2025, 11:08 PM	Lightning	✓
13 Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightning Experience	9/10/2025, 11:45 AM	Lightning	✓
14 Marketing CRM Classic	Marketing	Track sales and marketing efforts with CRM objects.	9/10/2025, 11:45 AM	Classic	✓
15 My Service Journey	MSIAApp	Discover new customer service capabilities.	9/10/2025, 11:45 AM	Lightning	✓
16 Platform	Platform	The fundamental Lightning Platform	9/10/2025, 11:45 AM	Classic	✓
17 Queue Management	QueueManagement	Create and manage queues for your business.	9/10/2025, 11:45 AM	Lightning	✓
18 Sales	Sales	The world's most popular sales force automation (SFA) solution	9/10/2025, 11:45 AM	Classic	✓
19 Sales	LightningSales	Manage your sales process with accounts, leads, opportunities, and more	9/10/2025, 11:45 AM	Lightning	✓
20 Sales Cloud Mobile	SalesCloudMobile	New seller focused mobile first experience	9/10/2025, 11:45 AM	Lightning	✓
21 Sales Console	LightningSalesConsole	(Lightning Experience) Lets sales reps work with multiple records on one s...	9/10/2025, 11:45 AM	Lightning	✓
22 Salesforce Chatter	Chatter	The Salesforce Chatter social network, including profiles and feeds	9/10/2025, 11:45 AM	Classic	✓
23 Salesforce Scheduler Setup	LightningScheduler	Set up personalized appointment scheduling.	9/10/2025, 11:49 AM	Lightning	✓
24 Service	Service	Manage customer service with accounts, contacts, cases, and more	9/10/2025, 11:45 AM	Classic	✓
25 Service Console	LightningService	(Lightning Experience) Lets support agents work with multiple records acr...	9/10/2025, 11:45 AM	Lightning	✓
26 Site.com	Sites	Build pixel-perfect, data-rich websites using the drag-and-drop Site.com ...	9/10/2025, 11:45 AM	Classic	✓
27 Subscription Management	RevenueCloudConsole	Get started automating your revenue processes	9/10/2025, 11:45 AM	Lightning	✓

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 > Apps App Manager AppExchange Marketplace

30°C Partly sunny Search ENG IN 21:49 17-09-2025





Platform Login | Tasks | Salesforce | Home | Salesforce | Lightning Usage | Garage Manager | Recent | Dashbo | Account | Sales | Home | Salesforce | +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000006cW7eQAE&retUrl=https%3A%2F%2Fforfarm-8a6c5283ff-dev-ed.develo...

Lightning App Builder | App Settings | Pages | Garage Management Application | Help

### App Settings

- App Details & Branding
- App Options**
- Utility Items (Desktop Only)
- Navigation Items
- User Profiles

#### App Options

##### Navigation and Form Factor

**\* Navigation Style**

- ☒ Standard navigation
- ☐ Console navigation

**\* Supported Form Factors**

- ☒ Desktop and phone
- ☐ Desktop
- ☐ Phone

##### Setup and Personalization

**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

30°C Partly sunny | Search | ENG IN | 21:53 17-09-2025

Platform Login | Tasks | Salesforce | Home | Salesforce | Lightning Usage | Garage Manager | Recent | Dashbo | Account | Sales | Home | Salesforce | +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000006cW7eQAE&retUrl=https%3A%2F%2Fforfarm-8a6c5283ff-dev-ed.develo...

Lightning App Builder | App Settings | Pages | Garage Management Application | Help

### App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)**
- Navigation Items
- User Profiles

#### 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: Default

Search...

**Standard (24)**

- Chatter Feed
- Chatter Publisher
- Connection Status
- CRM Analytics Dashboard
- Einstein Next Best Action
- Flow
- History
- Invoice Preview
- List View
- LWC CRM Analytics Dashboard

that opens components in docked panels. Available only when the app is viewed in Lightning Experience on a desktop.

To enable the utility bar for this app, add a utility item.

30°C Partly sunny | Search | ENG IN | 21:54 17-09-2025

Platform Login | Tasks | Salesforce | Home | Salesforce | Lightning Usage | Garage Manager | Recent | Dashboard | Account | Salesforce | Home | Salesforce | +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000006cW7eQAE&retUrl=https%3A%2F%2Forgfarm-8a6c5283ff-dev-ed.develo...

Lightning App Builder | App Settings | Pages | Garage Management Application | Help

### App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)
- Navigation Items**
- User Profiles

#### Navigation Items

Choose the items to include in the app, and arrange the order in which they appear. Users can personalize the navigation to add or move items, but users can't remove or rename the items that you add. Some navigation items are available only for phone or only for desktop. These items are dropped from the navigation bar when the app is viewed in a format that the item doesn't support.

Available Items

Search: Type to filter list...

- Accounts
- Activation Targets
- Activations
- All Sites
- Alternative Payment Methods
- Analytics
- App Launcher
- Appointment Categories
- Appointment Invitations
- Approval Requests
- Approval Submission Details
- Approval Submissions

Selected Items

- Customer Details
- Appointments
- Service records
- Billing details and feedback
- Reports
- Dashboards

30°C Partly sunny | Search | ENG IN | 22:00 17-09-2025

Platform Login | Tasks | Salesforce | Home | Salesforce | Lightning Usage | Garage Manager | Recent | Dashboard | Account | Salesforce | Home | Salesforce | +

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/visualEditor/appBuilder.app?id=02ugK000006cW7eQAE&retUrl=https%3A%2F%2Forgfarm-8a6c5283ff-dev-ed.develo...

Lightning App Builder | App Settings | Pages | Garage Management Application | Help

### App Settings

- App Details & Branding
- App Options
- Utility Items (Desktop Only)
- Navigation Items
- User Profiles**

#### User Profiles

Choose the user profiles that can access this app.

Available Profiles

Search: Type to filter list...

- Analytics Cloud Integration User
- Analytics Cloud Security User
- Anypoint Integration
- Authenticated Website
- Authenticated Website
- B2B Reordering Portal Buyer Profile
- Contract Manager
- Custom: Marketing Profile
- Custom: Sales Profile
- Custom: Support Profile
- Customer Community Login User
- Customer Community Plus Login User
- Customer Community Plus User

Selected Profiles

- System Administrator
- Manager
- Sales Person

javascript:void(0); | 30°C Partly sunny | Search | ENG IN | 22:01 17-09-2025

Implemented flow for billing details and feedback:

Platform | Tasks | Home | Lightning | Flows | Flows | Flows | billing | Recent | Account | Home

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/builder\_platform\_interaction/flowBuilder.app?flowId=301gK00000KCR5IQAH

Flow Builder | billing amount flow - V1

Last saved on 9/14/2025, 06:12 PM | Active | Run | Debug | View Tests | Save As New Version | Save | Deactivate

Select Elements | Auto-Layout

**Record-Triggered Flow**  
Start  
Object: **Billing details and feedback** | Edit  
Trigger: **A record is created or updated**  
Optimize for: **Actions and Related Records**  
+ Add Scheduled Paths (Optional)  
Open Flow Trigger Explorer for Billing ...

Run Immediately

**Amount Update**  
Update Records

**Email Alert**  
Action

**End**

30°C Partly sunny | Search | ENG IN | 22:07 17-09-2025

Platform | Tasks | Home | Lightning | Flows | Flows | Flows | billing | Recent | Account | Home

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/builder\_platform\_interaction/flowBuilder.app?flowId=301gK00000KCR5IQAH

Flow Builder | billing amount flow - V1

Last saved on 9/14/2025, 06:12 PM | Active | Run | Debug | View Tests | Save As New Version | Save | Deactivate

Select Elements | Auto-Layout

**Record-Triggered Flow**  
Start  
Object: **Billing details and feedback** | Edit  
Trigger: **A record is created or updated**  
Optimize for: **Actions and Related Records**  
+ Add Scheduled Paths (Optional)  
Open Flow Trigger Explorer for Billing ...

Run Immediately

**Amount Update**  
Update Records

**Email Alert**  
Action

**End**

**Update Records**

\*Label: Amount Update \*API Name: Amount\_Update

Description

**\*How to Find Records to Update and Set Their Values**

- ☒ Use the billing details and feedback record that triggered the flow
- ☐ Update records related to the billing details and feedback record that triggered the flow
- ☐ Use the IDs and all field values from a record or record collection
- ☐ Specify conditions to identify records, and set fields individually

**Set Filter Conditions**

Condition Requirements to Update Record: All Conditions Are Met (AND)

Field	Operator	Value
Payment Status	Equals	Completed

+ Add Condition

**Set Field Values for the Billing details and feedback Record**

Field	Value
Payment Paid	...vice records > Appointment > Service Amount

30°C Partly sunny | Search | ENG IN | 22:09 17-09-2025

The screenshot shows the Salesforce Flow Builder interface. The flow is titled "billing amount flow - V1". The flow steps are:

- Record-Triggered Flow** (Start)
- Run Immediately**
- Amount Update** (Update Records)
- Email Alert** (Action)
- End**

The right sidebar shows the configuration for the "Send Email" action:

- \*Label**: Email Alert
- \*API Name**: Email\_Alert
- Description**: (Empty)
- Configure Recipient Details**:
  - Recipient Address List**: Appointment > Customer Details > Gmail
  - Recipient Address Collection**: Enter value or search resources...
  - CC Recipient Address List**: Enter value or search resources...

## Created Apex Class:

The screenshot shows the Salesforce Setup page for Apex Classes. The page displays the following information:

- Apex Classes** section:
  - Percent of Apex Used: 0.02%
  - Estimate your organization's code coverage: (Link)
  - View: All | Create New View
- Table of Apex Classes**:
 

Action	Name	Namespace Prefix	API Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
<a href="#">Edit</a>   <a href="#">Del</a>   <a href="#">Security</a>	AmountDistributionHandler	Amount	64.0	Active	1,069	Sameena S, 9/14/2025, 6:19 AM	<input type="checkbox"/>
- Dynamic Apex Classes** section:
  - View: All | Create New View
  - Table with columns: Class Name, Namespace Prefix, API Version, Created By, Last Modified By.
  - No records to display.

Screenshot of the Salesforce Setup page for Apex Classes. The page shows the details for the class **AmountDistributionHandler**, including its name, namespace prefix, creation date, and status. The class body is displayed, showing a public class definition with a static method `amountDist(List<Appointment__c> listApp)` that iterates through a list of appointments and performs calculations based on their status and service type.

Apex Class Detail

Name	AmountDistributionHandler	Status	Active
Namespace Prefix		Code Coverage	0% (0/16)
Created By	Sameena S.	Last Modified By	Sameena S.
	9/14/2025, 6:01 AM		9/14/2025, 6:19 AM

Class Body

```
1 public class AmountDistributionHandler {
2
3     public static void amountDist(List<Appointment__c> listApp) {
4         for (Appointment__c app : listApp) {
5             if (app.Maintenance_Service__c == true && app.Repairs__c == true && app.Replacement_Parts__c == true) {
6                 app.Service_Amount__c = 10000;
7             } else if (app.Maintenance_Service__c == true && app.Repairs__c == true) {
8                 app.Service_Amount__c = 5000;
9             } else if (app.Maintenance_Service__c == true && app.Replacement_Parts__c == true) {
10                 app.Service_Amount__c = 8000;
11             } else if (app.Repairs__c == true && app.Replacement_Parts__c == true) {
12                 app.Service_Amount__c = 7000;
13             } else if (app.Maintenance_Service__c == true) {
14                 app.Service_Amount__c = 2000;
15             } else if (app.Repairs__c == true) {
16                 app.Service_Amount__c = 3000;
17             } else if (app.Replacement_Parts__c == true) {
18                 app.Service_Amount__c = 5000;
19             }
20         }
21     }
22 }
```

## Created Triggers:

Screenshot of the Salesforce Setup page for Apex Triggers. The page shows the details for the trigger **AmountDistribution**, including its name, namespace prefix, sObject type, API version, status, size, and last modified date. The page also displays a table of all triggers in the organization.

Apex Triggers

This page allows you to view and modify all the triggers in your organization. To create a new trigger, navigate to the appropriate sObject triggers page.

Percent of Apex Used: 0.02%  
You are currently using 1,284 characters of Apex Code (excluding comments and @isTest annotated classes) in your organization, out of an allowed limit of 6,000,000 characters. Note that the amount in use includes both Apex Classes and Triggers defined in your organization.

Compile all triggers

View: All Create New View

Action	Name	Namespace Prefix	sObject Type	API Version	Status	Size Without Comments	Last Modified By	Has Trace Flags
Edit   Del	AmountDistribution		Appointment	64.0	Active	215	Sameena S.	



Screenshot of the Salesforce Setup page for Apex Triggers. The browser address bar shows the URL: `orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/ApexTriggers/page?address=%2F01qgK0000028nHB`. The left sidebar shows the navigation menu with "Apex Triggers" selected. The main content area displays the "Apex Trigger Detail" for the trigger named "AmountDistribution".

**Apex Trigger Detail**

Name	AmountDistribution	Object Type	Appointment
Code Coverage	0% (0/2)	Status	Active
Created By	Sameena S.	Last Modified By	Sameena S.
Created Date	9/14/2025, 6:02 AM	Last Modified Date	9/14/2025, 6:21 AM
Namespace Prefix			

**Apex Trigger** | Version Settings | Trace Flags

```
1 trigger AmountDistribution on Appointment__c (before insert, before update) {
2   if (Trigger.isBefore && (Trigger.isInsert || Trigger.isUpdate)) {
3     AmountDistributionHandler.amountDist(Trigger.new);
4   }
5 }
```

## Created Public Groups:

Screenshot of the Salesforce Setup page for Public Groups. The browser address bar shows the URL: `orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/setup/PublicGroups/home`. The left sidebar shows the navigation menu with "Public Groups" selected. The main content area displays the "Public Groups" list.

**Public Groups**

A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.

View: All | Edit | Create New View

Action	Label	Group Name	Created By	Created Date
Edit   Del	sales team	sales_team	S. Sameena	9/14/2025, 1:15 AM

The screenshot shows the Salesforce Setup interface for the 'Roles' section. The left sidebar contains navigation options like 'Setup', 'Home', and 'Object Manager'. The main content area displays the 'sales person' role details. Below the role name, there's a table listing users assigned to this role. The table has columns for 'Action', 'Full Name', 'Alias', 'Username', and 'Active'.

Action	Full Name	Alias	Username	Active
Edit	Rabeekah Johnson	rjohn	sams32700@gmail.com	✓
Edit	Elijah Smith	esmit	sarvusami@gmail.com	✓

## Custom Report Types:

The screenshot shows the Salesforce Setup interface for the 'Custom Report Type' section. The left sidebar contains navigation options like 'Setup', 'Home', and 'Object Manager'. The main content area displays the 'Service information' custom report type details. It includes a 'Details' section with fields like 'Display Label', 'API Name', 'Description', 'Created By', 'Store in Category', 'Deployment Status', and 'Modified By'. It also includes a 'Fields' section with a table listing source objects and included fields. Finally, it shows an 'Object Relationships' diagram illustrating the relationships between objects A, B, C, and D.

Source Object	Included Fields
Customer Details	9
Appointments	13
Service records	10
Billing details and feedback	10

## Dashboard:

Platform Login Cred... x Tasks | Salesforce x Recent | Dashboards x Home | Salesforce x Lightning Usage | S... x Flows | Salesforce x Flows | Salesforce x + -

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/o/Dashboard/home?queryScope=mru

Search...

Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar People Cases Forecasts

Dashboards

Recent

1 item

Q Search recent dashboards... New Dashboard New Folder

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Customer Review		Service Rating dashboard	Sameena S	9/16/2025, 11:51 PM	
Created by Me						
Private Dashboards						
All Dashboards						
FOLDERS						
All Folders						
Created by Me						
Shared with Me						
FAVORITES						
All Favorites						

To Do List

30°C Partly sunny Search 22:29 17-09-2025

Platform Login Cred... x Tasks | Salesforce x Customer Review | x Home | Salesforce x Lightning Usage | S... x Flows | Salesforce x Flows | Salesforce x + -

orgfarm-8a6c5283ff-dev-ed.develop.lightning.force.com/lightning/r/Dashboard/01ZgK000003mqc5UAA/view?queryScope=userFolders

Search...

Sales Home Opportunities Leads Tasks Files Accounts Contacts Campaigns Dashboards Reports Chatter Groups Calendar People Cases Forecasts

Customer Review

New Service information Report

We can't draw this chart because there is no data.

View Report (New Service information Report)

Add Filter

\* Select Field to Filter By (Required)

Appointment Date

1 equivalent field

Display Name

Appointment Date

Filter Values (0)

1 New Filter Value

Add Filter Value

Operator

equals

Date Type

Calendar

Value

Pick a date

Add More Date

Display Text

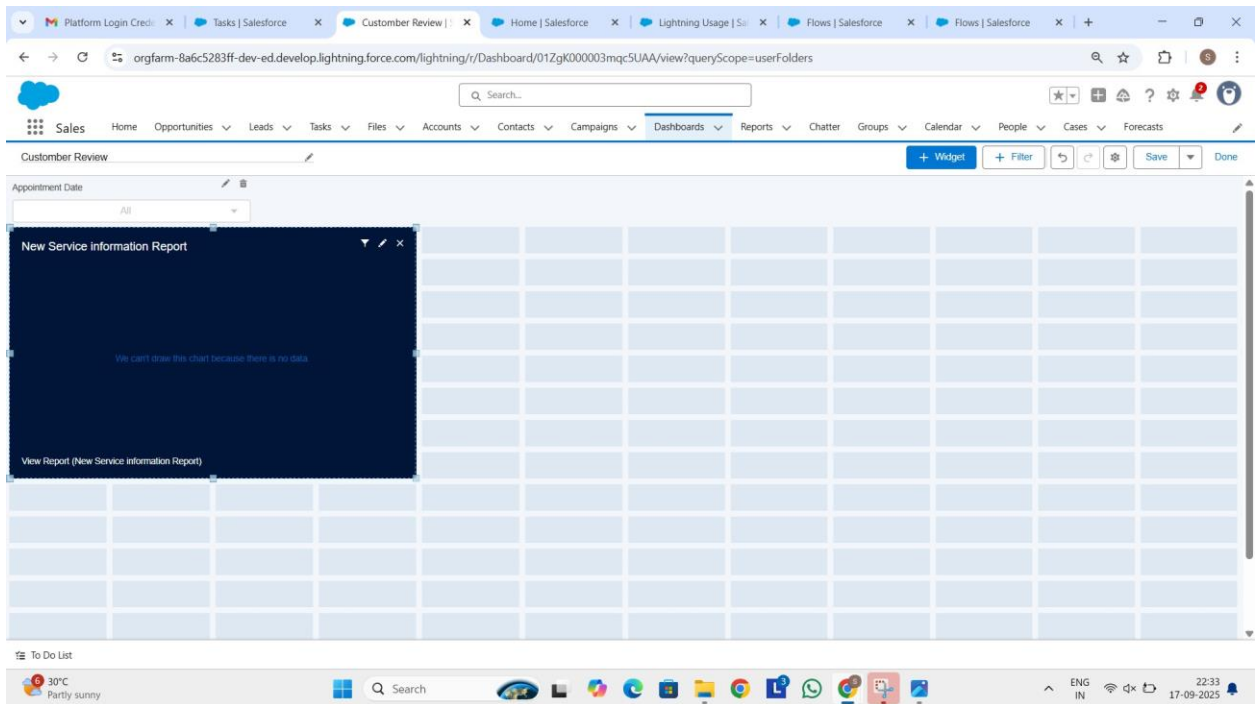
New Filter Value

Cancel Apply

Cancel Add

To Do List

30°C Partly sunny Search 22:31 17-09-2025



## **Advantages:**

### **Improved Efficiency:**

Automates job cards, billing, and inventory, reducing manual workload.

### **Better Customer Service:**

Stores service history, sends reminders, and ensures timely updates.

### **Accurate Billing:**

Reduces errors in labor charges, parts costs, and taxes.

### **Inventory Control:**

Tracks spare parts availability and prevents stockouts or overstocking.

### **Data Management & Reporting:**

Provides detailed reports on jobs, revenue, and performance.

## **Disadvantages:**

### **Initial Setup Cost:**

Purchasing or developing the system can be expensive.

**System Dependency:**

Heavy reliance on the software may cause disruptions if technical issues occur.

**Maintenance & Updates:**

Requires regular software updates and possible IT support.

**Data Security Risks:**

Sensitive customer and financial data must be properly secured.

**Internet/Power Dependency:**

Cloud-based or online systems may face downtime without connectivity.

**Conclusion:**

The Garage Management System (GMS) plays a vital role in modernizing and streamlining the operations of automotive repair facilities. By automating job scheduling, inventory tracking, billing, and customer communication, it enhances efficiency, accuracy, and service quality. While the system may require initial investment, training, and ongoing maintenance, the long-term benefits—such as improved customer satisfaction, optimized resource management, and increased profitability—far outweigh the challenges. Overall, GMS provides a reliable and effective solution for garages to stay competitive in the rapidly evolving automotive service industry.

**Appendix:**

**Source code:** Apex class and triggers

**Apex classes:** `AmountDistributionHandler`

```

public class AmountDistributionHandler {

    public static void amountDist(List<Appointment__c> listApp) {
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 = 5000;
            } 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;
            }
        }
    }
}
}

```

### **Apex Triggers:** AmountDistribution

```

trigger AmountDistribution on Appointment__c (before insert, before
update) {
    if (Trigger.isBefore && (Trigger.isInsert || Trigger.isUpdate)) {

```



```
AmountDistributionHandler.amountDist(Trigger.new);
```

```
}
```

```
}
```