

GARAGE MANAGEMENT SYSTEM

College name : Akshaya college of Arts and Science.

College code : brubw.

TEAM ID : NM2025TMID24847

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***INTRODUCTION :-**

The **Garage Management System (GMS)** is a software solution designed to streamline the operations of automobile garages and service centers. It helps in managing various tasks such as vehicle service records, customer information, billing, inventory management, and employee tracking. Traditional garage management relies heavily on manual record-keeping, which can lead to inefficiencies like misplaced data, calculation errors, and time

delays. By digitalizing these processes, the GMS improves workflow, enhances customer satisfaction, and reduces human error.

This project is developed using modern technologies to ensure a **user-friendly interface, secure data storage, and efficient service tracking.**

***PURPOSE :-**


The main purpose of developing the Garage Management System is to:

- Automate and simplify garage operations.
- Maintain accurate records of customers, vehicles, and services.
- Reduce paperwork and manual errors.
- Provide easy access to vehicle service history.
- Improve customer experience with faster service and transparent billing.
- Manage inventory and spare parts efficiently.
- Generate reports for business insights and decision-making.

***DEVELOPMENT PHASE :-**

Creating Developer Account : By Using URL :

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



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First name

B

Last name

Binu

Job title

developer

Work email

23itbinu@acascbe.edu

Company

Akshaya collage of ar

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.

Network 2
Internet access

CREATING OBJECT :-



Search Setup

Setup

Home

Object Manager

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

Search Layouts

List View Button Layout

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 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		

Network 2
Internet access

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SETUP > OBJECT MANAGER

Billing details and feedback

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List View Button Layout

Details

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

Edit

Delete

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Object Manager

Search Setup

Q app

Salesforce Mobile App

Data

Mass Transfer Approval Requests

Apps

App Manager

AppExchange Marketplace

Connected Apps

Connected Apps OAuth Usage

Manage Connected Apps

External Client Apps

External Client App Manager

OAuth Usage

Settings

SETUP


Lightning Experience App Manager

New Lightning App

New External Client App

27 items • Sorted by App Name • Filtered by All appmenuitems - TabSet Type, App Type

	App Name ↑	Developer Name	Description	Last Modified ...	Ap...	Vi...	
2	Analytics Studio	Insights	Build CRM Analytics dashboards and apps	8/25/2025, 12:33 PM	Classic	✓	
3	App Launcher	AppLauncher	App Launcher tabs	8/25/2025, 12:33 PM	Classic	✓	
4	Approvals	Approvals	Manage approvals and approval flows	8/25/2025, 12:33 PM	Lightning	✓	
5	Automation	FlowsApp	Automate business processes and repetitive ...	8/25/2025, 12:41 PM	Lightning	✓	
6	Bolt Solutions	LightningBolt	Discover and manage business solutions de...	8/25/2025, 12:33 PM	Lightning	✓	
7	Community	Community	Salesforce CRM Communities	8/25/2025, 12:33 PM	Classic	✓	
8	Content	Content	Salesforce CRM Content	8/25/2025, 12:33 PM	Classic	✓	
9	Data Cloud	Audience360	Build a thorough and complete understandi...	8/25/2025, 12:33 PM	Lightning	✓	
10	Data Manager	DataManager	Use Data Manager to view limits, monitor us...	8/25/2025, 12:33 PM	Lightning	✓	
11	Digital Experiences	SalesforceCMS	Manage content and media for all of your si...	8/25/2025, 12:33 PM	Lightning	✓	
12	Garage Management Application	Garage_Management_Application		8/28/2025, 11:25 PM	Lightning	✓	
13	Lightning Usage App	LightningInstrumentation	View Adoption and Usage Metrics for Lightn...	8/25/2025, 12:33 PM	Lightning	✓	



Search Setup

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Star icon, Plus icon, Cloud icon, Help icon, Gear icon, Notification icon, Profile icon

SETUP > OBJECT MANAGER

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Buttons, Links, and Actions

Compact Layouts

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Related Lookup Filters

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List View Button Layout

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 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			▼



Search Setup

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Star icon, Plus icon, Cloud icon, Help icon, Gear icon, Notification icon, Profile icon

SETUP > OBJECT MANAGER

Appointment

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Compact Layouts

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Related Lookup Filters

Search Layouts

List View Button Layout

Fields & Relationships

10 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)			
Owner	OwnerId	Lookup(User,Group)		✓	
Repairs	Repairs__c	Checkbox			▼
Replacement Parts	Replacement_Parts__c	Checkbox			▼

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Service records

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Buttons, Links, and Actions

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Search Layouts

List View Button Layout

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		

Setup

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Object Manager

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Search Layouts

List View Button Layout

Appointment Validation Rule

Back to Appointment

Help for this Page

Validation Rule Detail

Edit

Clone

Active

✓

Rule Name

Vehicle

Error Condition Formula

NOT(REGEX(Vehicle_number_plate__c, "[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}"))

Error Message

Please enter valid number ", select the Error location as Field and select the field as Error Location Top of Page

Description

Created By

binu B 8/29/2025, 1:48 AM

Modified By

binu B 8/29/2025, 1:48 AM

Edit

Clone

Setup

Home

Object Manager

Q matc

▼ Data

▼ Duplicate Management

Matching Rules

Didn't find what you're looking for?

Try using Global Search.

SETUP

Matching Rules

All Matching Rules

Help for this Page

What Are Matching Rules?

[Expand]

View: All Matching Rules

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	Rule Name	Object	Status	Description	Last Modified Date	Last Modified By
Del Deactivate	Matching Customer Details	Customer Details	Active		8/29/2025	iam
Deactivate	Standard Account Matching Rule	Account	Active	Matching rule for account records. More info	8/25/2025	QEPIQ
Deactivate	Standard Contact Matching Rule	Contact	Active	Matching rule for contact records. More info	8/25/2025	QEPIQ
Deactivate	Standard Lead Matching Rule	Lead	Active	Matching rule for lead records. More info	8/25/2025	QEPIQ

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

Setup

Home

Object Manager

Q profil

▼ Users

Profiles

Didn't find what you're looking for?

Try using Global Search.

SETUP

Profiles

Profile Edit: Standard User

Help for this Page

Set the permissions and page layouts for this profile.

Profile Edit

Save Save & New Cancel

Name Standard User

User License Salesforce

Custom Profile

Custom App Settings

Required Information

	Visible	Default		Visible	Default
All Tabs (standard__AllTabSet)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	My Service Journey (standard__MSJApp)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analytics Studio (standard__Insights)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Queue Management (standard__QueueManagement)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
App Launcher (standard__AppLauncher)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sales (standard__LightningSales)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Approvals (standard__Approvals)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sales (standard__Sales)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automation (standard__FlowsApp)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sales Cloud Mobile (standard__SalesCloudMobile)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt Solutions (standard__LightningBolt)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sales Console (standard__LightningSalesConsole)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Community (standard__Community)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Salesforce Chatter (standard__Chatter)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Setup

Home

Object Manager

users

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles

User Management Settings

Users

Feature Settings

Data.com

Prospector Users

Didn't find what you're looking for?

Try using Global Search.

Search Setup

Users

All Users

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

New User

Reset Password(s)

Add Multiple Users

Action	Full Name ↑	Alias	Username	Role	Active	Profile
Edit	B. binu	binu	tamin08523486@agentforce.com		✓	System Administrator
Edit	Chatter Expert	Chatter	chatty.000dp00000a2hju3.h2elfmotsyow@chatter.salesforce.com		✓	Chatter Free User
Edit	CEPIC_OrgFarm	CEPIC	ecis_ea586c44b957@orgfarm.salesforce.com		✓	System Administrator
Edit	Mikaelson, Niklaus	nmika	23ilavanya@acascbe.edu.in	Manager	✓	Manager
Edit	Mikaelsonre, kolin	kmika	binut@gmail.com	sales person	✓	sales person
Edit	tamil_viji	vtami	kannanvijayadharshini5@gmail.com	sales person	✓	sales person
Edit	User_Integration	inteo	integration@000dp00000a2hju3.com		✓	Analytics Cloud Integration User
Edit	User_Security	ses	insightasecurity@000dp00000a2hju3.com		✓	Analytics Cloud Security User

New User

Reset Password(s)

Add Multiple Users

Setup

Home

Object Manager

users

Users

Permission Set Groups

Permission Sets

Profiles

Public Groups

Queues

Roles

User Management Settings

Users

Feature Settings

Data.com

Prospector Users

Didn't find what you're looking for?

Try using Global Search.

Search Setup

Public Groups

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

New

Action	Label ↑	Group Name	Created By	Created Date
Edit	Del	sales team	B. binu	8/29/2025, 5:57 AM

Setup

Home

Object Manager

Search Setup

Star

Plus

Alert

Help

Settings

Profile

shari

Security

Guest User

Sharing Rule Access Report

Sharing Settings

Didn't find what you're looking for?

Try using Global Search.

Sharing Settings

Organization-Wide Defaults

Object	Default Internal Access	Default External Access	Grant Access Using Hierarchies
Lead	Public Read/Write/Transfer	Private	✓
Account and Contract	Public Read/Write	Private	✓
Contact	Controlled by Parent	Controlled by Parent	✓
Order	Controlled by Parent	Controlled by Parent	✓
Asset	Controlled by Parent	Controlled by Parent	✓
Opportunity	Public Read/Write	Private	✓
Case	Public Read/Write/Transfer	Private	✓
Campaign	Public Full Access	Private	✓
Campaign Member	Controlled by Campaign	Controlled by Campaign	✓
User	Public Read Only	Private	✓
Activity	Private	Private	✓
Calendar	Hide Details and Add Events	Hide Details and Add Events	✓
Price Book	Use	Use	✓
Product	Public Read/Write	Public Read/Write	✓
Individual	Public Read/Write	Private	✓
Voice Call	Private	Private	✓

Flow Builder

alert - V1

?

Select Elements

Auto-Layout

Last saved on 9/1/2025, 11:08 AM

Inactive

Run

Debug

View Tests

Save As New Version

Save

Activate

Errors and Warnings

Errors (1)

Warnings (1)

You can't activate this automation until you resolve an error.

Email Alert

Provide at least one email recipient.

Record-Triggered Flow

Start

Object: Billing details and feedback

Trigger: A record is created or updated

Optimize for: Actions and Related Records

Add Scheduled Paths (Optional)

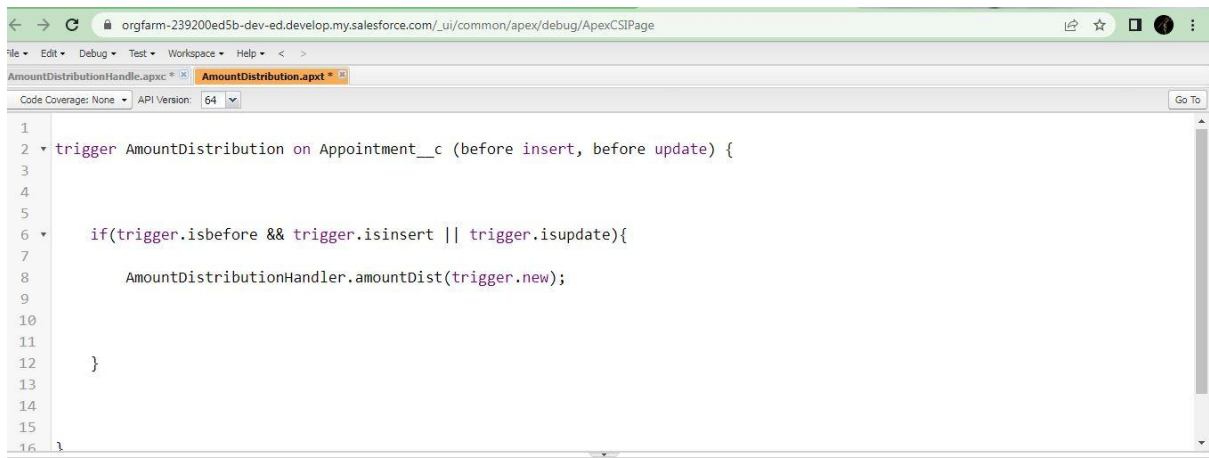
Open Flow Trigger Explorer for Billing ...

Run Immediately

Email Alert

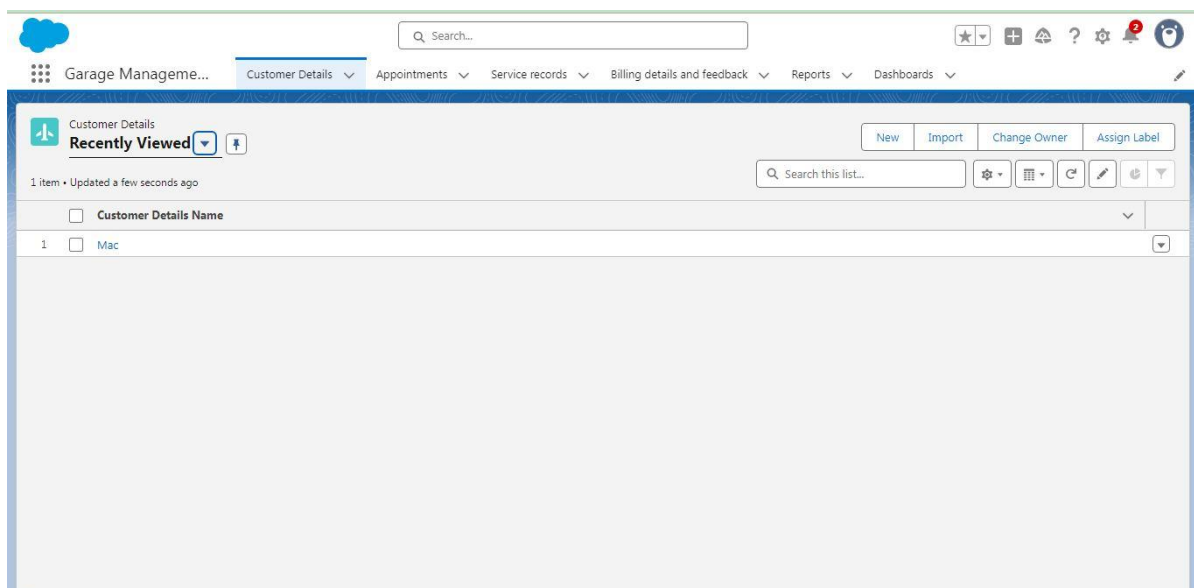
Amount Update

APEX TRIGGER :-



```
1
2 trigger AmountDistribution on Appointment__c (before insert, before update) {
3
4
5
6     if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
7
8         AmountDistributionHandler.amountDist(trigger.new);
9
10
11     }
12
13
14
15
16 }
```

CUSTOMER DETAILS :-



REPORTS :-

Garage Manageme...

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

Search...

★

+

?

⚙

2

Reports

Recent

1 item

Q Search recent reports...

New Report

New Folder

⚙ ▾

REPORTS	Report Name ▾	Description ▾	Folder ▾	Created By ▾	Created On ▾	Subscribed	
Recent	New Service information Report		Private Reports	binu B	8/31/2025, 11:24 PM		▾
Created by Me							
Private Reports							
Public Reports							
All Reports							
FOLDERS							
All Folders							
Created by Me							
Shared with Me							
FAVORITES							
All Favorites							

DASHBOARDS :-

Garage Manageme...

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

Search...

★

+

?

⚙

2

Dashboards

Recent

1 item

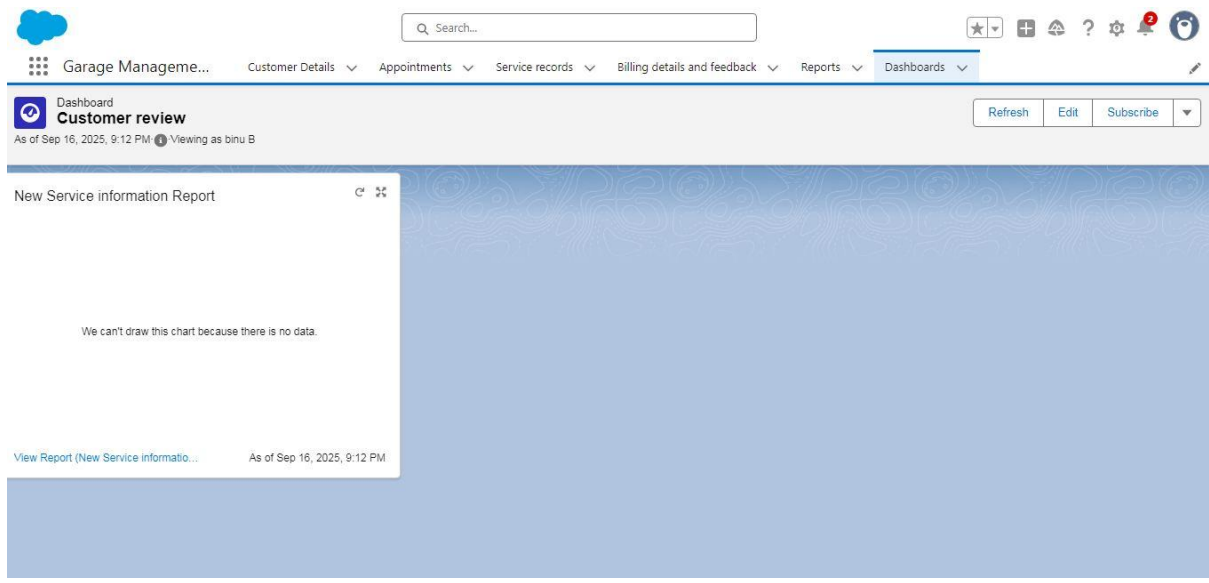
Q Search recent dashboards...

New Dashboard

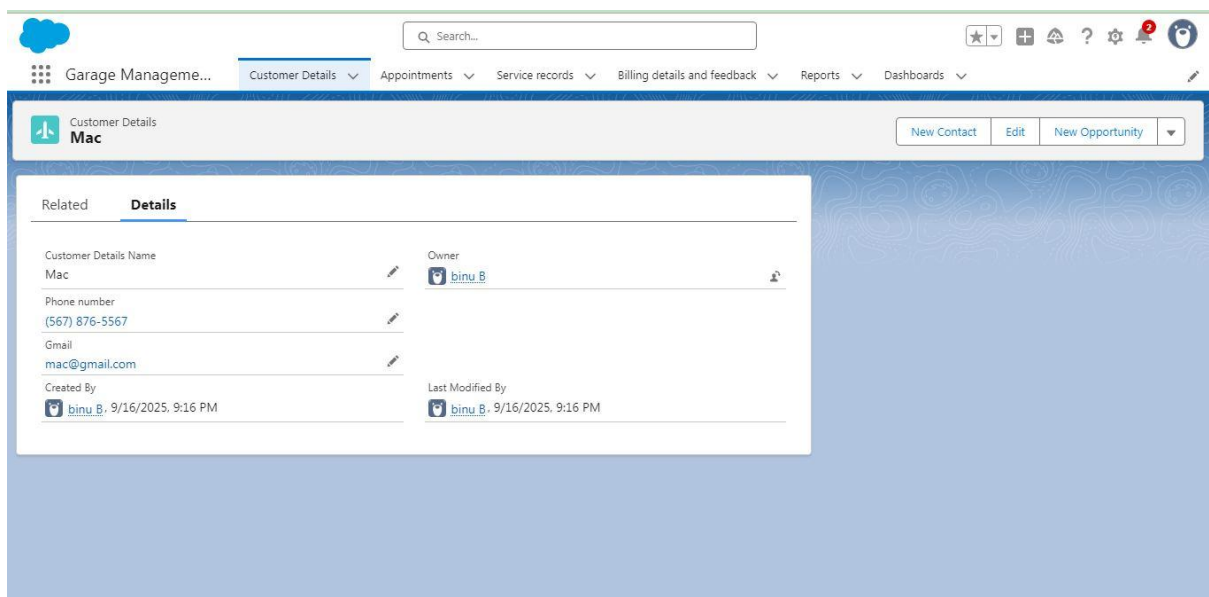
New Folder

⚙ ▾

DASHBOARDS	Dashboard Name ▾	Description ▾	Folder ▾	Created By ▾	Created On ▾	Subscribed	
Recent	Customer review		Service Rating dashboard	binu B	9/16/2025, 9:07 PM	✓	▾
Created by Me							
Private Dashboards							
All Dashboards							
FOLDERS							
All Folders							
Created by Me							
Shared with Me							
FAVORITES							
All Favorites							



RESULT :-



APEX HANDLER :-

```
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 = 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;  
_____  
    }  
_____  
_____  
    }  
_____  
    }  
_____  
    }  
_____  
}
```

TRIGGER HANDLER :-

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


ADVANTAGES AND DISADVANTAGES :

1.ADVANTAGES :

Efficient Record Management

- Stores all customer, vehicle, and service data digitally.
- Easy to search and retrieve historical service details.

Time-Saving

- Reduces manual work, allowing employees to focus on essential tasks.
- Faster billing and report generation.

Error Reduction

- Minimizes human mistakes in calculations and data entry.

Inventory Control

- Keeps track of spare parts and stock levels.
- Sends alerts when stock is low.

Improved Customer Service

- Provides detailed invoices and real-time updates on repairs.
- Builds trust through transparent service records.

Scalability

- Can be expanded as the business grows by adding more features.

1.DISADVANTAGES :

Initial Cost

- Setting up the system and hardware may require a high initial investment.

Technical Issues

- System downtime or technical failures may disrupt operations.

Training Requirement

- Staff members need proper training to use the system effectively.

CONCLUSION :-

The **Garage Management System** is a comprehensive solution designed to digitalize and streamline garage operations. It addresses the challenges of manual record-keeping, such as inefficiency, data loss, and errors, by providing a reliable and user-friendly platform for managing customer details, vehicle service history, inventory, and billing.

By automating routine tasks, this system significantly **improves productivity, reduces paperwork, and enhances customer satisfaction** through faster and more transparent services. While initial implementation and training may require effort, the long-term benefits — including better data accuracy, organized workflow, and business growth — far outweigh these challenges.

In conclusion, this project represents a **step towards digital transformation** in the automobile service industry, helping garages operate more efficiently, make informed decisions, and deliver higher-quality service to their customers.