

GARAGE MANAGEMENT SYSTEM

By

Shefali Jain

shefali.jain2021@gmail.com

User Name: lifeof@jain.sumi

Vellore Institute Of Technology

PROJECT ABSTRACT

Garage Management System The Garage Management System, based on Salesforce, is a high-end solution custom-orientated for automotive repair facilities to enhance service quality, operational efficiency, and long-lasting customer relationships. At its core, GMS utilizes powerful CRM capabilities of Salesforce to provide an easy user interface as well as more rich functionalities to ensure that garages can thrive in a competitive marketplace. GMS mechanizes key appointment scheduling, inventory management, billing, and customer communications. The integration of these functionalities into Salesforce ensures that customer and staff experiences are seamless and satisfying. This advanced solution empowers automotive repair businesses to deliver top-notch service, optimize workflows, and maintain a competitive edge.

INTRODUCTION

Running an automotive repair shop involves many tasks, from scheduling appointments to managing inventory, and billing customers. The Garage Management System is a Salesforce-based system that aims to make all these tasks easier and much more efficient.

This system utilizes the powerful tools of Salesforce to help garages deliver better service and keep their operations running efficiently. Repair shops can automate important tasks such as booking appointments, tracking of inventories, sending bills, and communicating with customers using GMS.

GMS is user-friendly, so its use will not only make the experience very pleasant for staff but also be appealing to customers.

This system will enable garages to stay ahead of their competitors and provide excellent service while taking care of their business operation. GMS not only simplifies everyday operations but gives meaningful insights to better business decisions.

INDEX

TOPIC	PAGE NO
Task-1	4
Task-2	5
Task-3	
Task-4	
Task-5	
Task-6	
Task-7	
Task-8	
Task-9	
Task-10	
Task-11	
Task-12	
Task-13	
Task-14	
Task-15	
Task-16	

TASK 1

1.1 Setting Up a Developer Account

To set up a Salesforce developer account, follow these steps:

1. Navigate to the Salesforce Developer Signup page.
2. Complete the signup form by providing the following information:
 - Your first name and last name.
 - A valid email address.
 - Role: Select Developer.
 - Organization: Enter the name of your institution.
 - Country: India.
 - Postal Code: Enter your area's PIN code.
 - Username: Combine your name and organization in this format:
username@organization.com (this does not need to be a valid email address).
3. Click the Sign Me Up button.

1.2 Activating the Account

1. Open the email account you used during registration.
2. Look for an email from Salesforce with a verification link (this may take a few minutes to arrive).
3. Click the verification link to activate your account.
4. Create a password and choose a security question.
5. Save your changes by clicking Change Password.
6. You will be redirected to the Salesforce setup dashboard.

TASK 2

Creating Custom Objects

This section provides steps to create custom objects within Salesforce for a Garage Management System. The objects include Customer Information, Appointments, Service Records, and Billing & Feedback. These objects are designed to enhance operational efficiency and improve data organization.

2.1 Customer Information Object

1. Navigate to the Object Manager section on the setup page.
2. Click on Create >> Custom Object.
3. Enter the following details:
 - Label Name: Customer Information
 - Plural Label Name: Customer Information
 - Record Name: Customer Name
 - Data Type: Text
 - Enable the following options:
 - Allow Reports
 - Track Field History
 - Enable Search
4. Click Save to finalize the creation of the object.

Details	
Description	
API Name	Enable Reports
Customer_Details_c	✓
Custom	Track Activities
✓	
Singular Label	Track Field History
Customer Details	✓
Plural Label	Deployment Status
Customer_Details	Deployed
	Help Settings
	Standard salesforce.com Help Window

2.2 Appointment custom object

Steps to Create the Appointment Object

1. Navigation:

- Go to Setup in Salesforce.
- In the Quick Find box, search for Object Manager and click on it.
- Click Create > Custom Object.

2. Details:

Fill in the following fields:

- Label: Appointment
- Plural Label: Appointments
- Record Name: Appointment Name
- Data Type: Auto Number
- Display Format: app - {000}
- Starting Number: 1
- Select the following options:
 - Allow Reports
 - Track Field History
 - Allow Search

3. Save:

Click Save to create the object.

Details

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

Description

API Name

Appointment_c

Custom

✓

Singular Label

Appointment

Plural Label

Appointments

Enable Reports

✓

Track Activities

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

2.3 Service Records object

1. Navigation Path:

- Go to the **Setup** page in Salesforce.
- Search for **Object Manager** in the Quick Find box and click on it.
- Click on **Create** and select **Custom Object**.

2. Details:

- **Label Name:** Service Records
- **Plural Label Name:** Service Records
- **Record Name:** Service Records Name
- **Data Type:** Auto Number
- **Display Format:** ser - {000}
- **Starting Number:** 1
- **Options:**
 - Check **Allow Reports**
 - Check **Track Field History**
 - Check **Allow Search**

3. Save:

- Click **Save** to create the object.

Details

Description

API Name

Service_Records__c

Custom

✓

Singular Label

Service Records

Plural Label

Service Records

Enable Reports

✓

Track Activities

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

2.4 Billing Details and Feedback object

1. Navigation Path:

1. From the **Setup** page, go to **Object Manager**.
2. Click on **Create > Custom Object**.

2. Custom Object Details:

Fill in the following fields:

- **Label:** Billing Details and Feedback
- **Plural Label:** Billing Details and Feedback
- **Record Name:** Billing Details and Feedback Name
- **Data Type:** Auto Number
- **Display Format:** bill - {000}
- **Starting Number:** 1

3. Options (Enable the following):

- **Allow Reports**
- **Track Field History**
- **Allow Search**

Save:

Click **Save** to create the custom object.

Details

Description

API Name

Service_Records__c

Custom

✓

Singular Label

Service Records

Plural Label

Service Records

Enable Reports

✓

Track Activities

Track Field History

✓

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

TASK-3

3.1 Creating a Custom Tab for Customer Details

1. Navigation Path:

1. Go to the **Setup** page.
2. Type "**Tabs**" in the **Quick Find** bar.
3. Click on "**Tabs**".
4. Click on "**New**" under the **Custom Object Tabs** section.

2. Steps:

1. **Select Object:** Choose **Customer Details**.
 2. **Select Tab Style:** Pick a style that represents **Customer Details**.
 3. Click **Next**.
 4. **Add to Profiles Page:** Keep the default settings.
 5. Click **Next**.
 6. **Add to Custom App:**
 - Uncheck "**Include Tab**".
 - Ensure "**Append tab to users' existing personal customizations**" is checked.
 7. Click **Save**.
-

3.2 Creating Remaining Tabs (Appointments, Service Records, Billing Details, and Feedback)

1. Repeat the same process for each object:

- **Appointments**
- **Service Records**
- **Billing Details**
- **Feedback**


2. Navigation Path:

1. Go to the **Setup** page.
2. Type "**Tabs**" in the **Quick Find** bar.
3. Click on "**Tabs**".
4. Click on "**New**" under the **Custom Object Tabs** section.

3. Steps for Each Object:

1. **Select Object:** Choose the respective object (**Appointments, Service Records, Billing Details, Feedback**).
2. **Select Tab Style:** Choose an appropriate style for the object.

3. Click **Next**.
4. **Add to Profiles Page**: Keep the default settings.
5. Click **Next**.
6. **Add to Custom App**:
 - Uncheck "Include Tab".
 - Ensure "Append tab to users' existing personal customizations" is checked.
7. Click **Save**.

 **SETUP**
Tabs



Edit Custom Object Tab

Customer_Details

Fill in the fields below to define the custom tab.

Custom Tab Definition Edit

Custom Object Tab Information

Tab Label	Customer_Details
Object	Customer Details
Tab Style	 Desk 

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.

Splash Page Custom Link --None-- ▾

Enter a short description.

Description

Save

Cancel



Edit Custom Object Tab

Customer_Details

Fill in the fields below to define the custom tab.

Custom Tab Definition Edit

Custom Object Tab Information

Tab Label Customer_Details

Object [Customer Details](#)

Tab Style  Desk 

Edit Custom Object Tab: Customer_Details ~ Salesforce - Developer Edition

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.

Splash Page Custom Link

Enter a short description.

Description



SETUP

Tabs

Edit Custom Object Tab

Service Records


Fill in the fields below to define the custom tab.

Custom Tab Definition Edit

Custom Object Tab Information

Tab Label Service Records

Object Service Records

Tab Style  Desk 

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.


Splash Page Custom Link --None-- ▾

Enter a short description.

Description

Save

Cancel

 **SETUP**
Tabs

Edit Custom Object Tab

Billing Details and Feedback

Fill in the fields below to define the custom tab.

Custom Tab Definition Edit

Custom Object Tab Information



Tab Label

Billing Details and Feedback

Object

Billing Details and Feedback

Tab Style

 **Desk** 

(Optional) Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.

Splash Page Custom Link

--None-- ▾

Enter a short description.

Description

Save

Cancel

TASK-4

Building a Lightning App for Garage Management

Steps to Create the Garage Management Application

1. Accessing App Manager:
 - Navigate to the Setup page in Salesforce.
 - In the Quick Find bar, search for App Manager and select it.
 - Click New Lightning App to initiate the app creation process.
2. App Details:
 - Name the app Garage Management Application.
 - Keep all default settings for the App Options and Utility Items pages, and proceed.
3. Adding Navigation Items:
 - In the navigation menu configuration, search for and add the following essential items:
 - Customer Details
 - Appointments
 - Service Records

- Billing Details
 - Feedback
 - Reports
 - Dashboards
 - Use the arrow button to move these items into the app's navigation menu.
4. Assigning User Profiles:
- To assign appropriate access:
 - Search for the System Administrator profile in the search bar.
 - Add it by clicking the arrow button.
 - Save and complete the setup process.

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 ⓘ

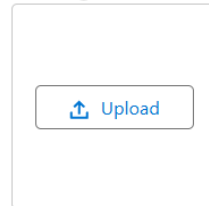
Garage_Management_Application

Description ⓘ

Enter a description...

App Branding

Image ⓘ



Primary Color Hex Value ⓘ

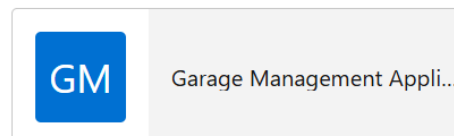


#0070D2

Org Theme Options

☐ Use the app's image and color instead of the org's custom theme

App Launcher Preview



Task 4: Creating Fields

5.1 Customer Details Object Fields

- **Phone Field:**
 - **Label:** Phone Number
 - **Purpose:** Store customer contact numbers.
- **Email Field:**
 - **Label:** Email
 - **Purpose:** Capture customer email addresses.

5.2 Lookup Fields

- **Appointment Object:**
 - Established a lookup relationship linking appointments to customer details.
- **Service Records Object:**
 - Lookup relationship linking service records to appointments.
 - **Filter:** Appointment date < Created date (required field with error validation).
- **Billing Details and Feedback Object:**
 - Lookup relationship connecting billing details and feedback to service records.

5.3 Checkbox Fields

- **Appointment Object:**
 - **Fields:** Maintenance Service, Repairs, Replacement Parts.
 - **Default:** Unchecked.
- **Service Records Object:**
 - **Field:** Quality Check Status to track quality checks.

5.4 Date Fields

- **Appointment Object:**
 - **Label:** Appointment Date.
 - **Purpose:** Ensure each appointment has a specified date (required).

5.5 Currency Fields

- **Appointment Object:**
 - **Label:** Service Amount.
 - **Purpose:** Record service costs (read-only access).

- **Billing Details and Feedback Object:**
 - **Label:** Payment Paid.
 - **Purpose:** Track payments made by customers.

5.6 Text Fields

- **Appointment Object:**
 - **Label:** Vehicle Number Plate.
 - **Length:** 10 characters.
 - **Attributes:** Required, unique.
- **Billing Details and Feedback Object:**
 - **Label:** Rating for Service.
 - **Length:** 1 character.
 - **Attributes:** Required, unique.

5.7 Picklist Fields

- **Service Records Object:**
 - **Label:** Service Status.
 - **Values:** Started, Completed.
- **Billing Details and Feedback Object:**
 - **Label:** Payment Status.
 - **Values:** Pending, Completed.

5.8 Formula Fields

- **Service Records Object:**
 - **Label:** Service Date.
 - **Formula:** Automatically populates with the record's created date.

Phone number

Custom Field Definition Edit

Change Field Type Save Cancel

Field Information

Required Information

Field Label

Phone number

Field Name

Phone_number

Description

Help Text

Data Owner

User

Field Usage

--None--

Data Sensitivity Level

--None--

Compliance Categorization

Available

PII
HIPAA
GDPR
PCI

Chosen

Data Type

Phone

General Options

Required

☐ Always require a value in this field in order to save a record

Default Value

Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes ("the_text"), include numbers without quotes : (25), show percentages as decimals (0.10), and express date calculations in the standard format: (today() + 7). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordAPIName.Field_c

Change Field Type

Save

Cancel

Maintenance service

Custom Field Definition Edit

Change Field Type Save Cancel

Field Information

Field Label

Maintenance service

Field Name

Maintenance_service

Description

Help Text

Data Owner

User

Field Usage

--None--

Data Sensitivity Level

--None--

Compliance Categorization

Available

PII
HIPAA
GDPR
PCI

Chosen

Data Type

Checkbox

General Options

Default Value

☐ Checked
☒ Unchecked

Change Field Type

Save

Cancel

Custom Field Definition Edit

Change Field TypeSaveCancel

Field Information

Field LabelAppointment Date

Field NameAppointment Date

Description

Help Text

Data OwnerUser

Field Usage--None--

Data Sensitivity Level--None--

Compliance Categorization

Available

PII
HIPAA
GDPR
PCI

Chosen

Data TypeDate

General Options

Required☐ Always require a value in this field in order to save a record

Default Value

Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes : ("the_text"). Include numbers without quotes : (25), show percentages as decimals : (0.10), and express date calculations in the standard format: (Today() + 7). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordAPIName.Field__c

Change Field TypeSaveCancel

Service Amount

Custom Field Definition Edit

Change Field TypeSaveCancel

Field Information

Field LabelService Amount

Field NameService Amount

Description

Help Text

Data OwnerUser

Field Usage--None--

Data Sensitivity Level--None--

Compliance Categorization

Available

PII
HIPAA
GDPR
PCI

Chosen

Data TypeCurrency

General Options

Required☐ Always require a value in this field in order to save a record

Default Value

Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes : ("the_text"). Include numbers without quotes : (25), show percentages as decimals : (0.10), and express date calculations in the standard format: (Today() + 7). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordAPIName.Field__c

Currency Options

Length18

Decimal Places0

Change Field TypeSaveCancel

Edit Appointment Custom Field
Vehicle number plate

Custom Field Definition Edit

Change Field Type Save Cancel

Field Information

Field LabelVehicle number plate

Field NameVehicle_number_plate

Description

Help Text

Data OwnerUser

Field Usage--None--

Data Sensitivity Level--None--

Compliance Categorization

Available

PII

HIPAA

GDPR

PCI

Chosen

General Options

Required

Unique

External ID

Default Value

Always require a value in this field in order to save a record

Do not allow duplicate values

Treat "ABC" and "abc" as duplicate values (case insensitive)

Treat "ABC" and "abc" as different values (case sensitive)

Set this field as the unique record identifier from an external system

Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes: ("the_text"), include numbers without quotes: (25), show percentages as decimals: (5.10), and express date calculations in the standard format: (Today() + 7). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordAPIName.Field__c

Text Options

Length

10

Change Field Type Save Cancel

Edit Service Records Custom Field
Service Status

Custom Field Definition Edit

Change Field Type Promote to Global Value Set Save Cancel

Field Information

Field LabelService Status

Field NameService_Status

Description

Help Text

Data OwnerUser

Field Usage--None--

Data Sensitivity Level--None--

Compliance Categorization

Available

PII

HIPAA

GDPR

PCI

Chosen

General Options

Required

Default Value

Always require a value in this field in order to save a record

Show Formula Editor

Use formula syntax: Enclose text and picklist value API names in double quotes: ("the_text"), include numbers without quotes: (25), show percentages as decimals: (5.10), and express date calculations in the standard format: (Today() + 7). To reference a field from a Custom Metadata type record use: \$CustomMetadata.Type__mdt.RecordAPIName.Field__c

Picklist Options

Restrict picklist to the values defined in the value set

Change Field Type Promote to Global Value Set Save Cancel

The screenshot shows the 'Custom Field Definition Edit' window. The 'Field Information' section includes fields for 'Field Label' (service date), 'Field Name' (service_date), 'Description', 'Help Text', 'Data Owner' (User), 'Field Usage' (None), 'Data Sensitivity Level' (None), and 'Compliance Categorization' (Available: PII, HIPAA, GDPR, PCI; Chosen:). The 'Formula Options' section shows 'Formula Return Type' set to 'Date'. Below this, there are tabs for 'Simple Formula' and 'Advanced Formula'. The 'Simple Formula' tab is active, showing the formula 'service date (Date) = CreatedDate'. On the right, there is a 'Functions' panel with a list of functions including ABS, ACOS, ADDMONTHS, AND, ASCII, and ASIN.

TASK-6

6.1 VALIDATION RULE

1. **Object:** Appointment
2. **Validation Rule Name:** Vehicle
3. **Error Condition Formula:**
4. `NOT (REGEX (Vehicle_number_plate__c, "[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}"))`
5. **Error Message:**
`NOT (REGEX (Vehicle_number_plate__c, "[A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{4}"))`
6. **Error Location:**
Field → Vehicle number plate

Explanation of the Regex:

- `[A-Z]{2}`: Ensures two uppercase letters (e.g., "AB").
- `[0-9]{2}`: Ensures two digits (e.g., "12").
- `[A-Z]{2}`: Ensures two uppercase letters again (e.g., "CD").
- `[0-9]{4}`: Ensures four digits (e.g., "5678").

This format typically resembles an Indian vehicle registration number like "KA01AB1234".

Appointment Validation Rule

Define a validation rule by specifying an error condition and a corresponding error message. The error condition is written as a Boolean formula expression that returns true

Validation Rule Edit

Save

Save & New

Cancel

Rule Name

Vehicle

Active

☒

Description

Vehicle

Error Condition Formula

Example: Discount_Percent__c>0.30

More Examples...

Display an error if Discount is more than 30%

If this formula expression is true, display the text defined in the Error Message area

Insert Field

Insert Operator

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

Check Syntax

Functions

-- All Function Categories -

ABS

ACOS

ADDMONTHS

AND

ASCII

ASIN

Insert Selected Function

ABS(number)

Returns the absolute value of a number, a number without its sign

Help on this function

Error Message

Example: Discount percent cannot exceed 30%

This message will appear when Error Condition formula is true

Error Message

Please enter valid number

This error message can either appear at the top of the page or below a specific field on the page

Error Location

☐ Top of Page

☒ Field

Vehicle number plate

Save

Save & New

Cancel

6.2 Validation Rule on the **Service Records Object**

Rule Name:

service_status_note

Purpose:

To ensure that the **Service Status** is marked as "Completed" before saving the record.

Validation Rule Formula:

NOT(ISPICKVAL(Service_Status__c, "Completed"))

Error Message:

"Still it is pending"

Error Location:

Field: **Service_Status__c** (Service Status)

This rule will prevent the record from being saved unless the **Service Status** is set to "Completed." Let me know if you need further assistance!

6.3 Validation Rule Overview for Billing Details and Feedback

Rule Title:

rating_should_be_less_than_5

Objective:

To validate that the **Rating for Service** field accepts values strictly within the range of 1 to 5.

Formula Used for Validation:

```
NOT (REGEX (Rating_for_service__c, "[1-5]{1}"))
```

Displayed Error Message:

"Rating should be from 1 to 5"

Error Displayed On:

Field: **Rating_for_Service__c**

This rule is designed to ensure that ratings outside the defined range are not accepted in the system, maintaining the integrity of the feedback data.

Billing Details and Feedback Validation Rule

Define a validation rule by specifying an error condition and a corresponding error message. The error condition is written as a Boolean formula expression that returns true or false.

Validation Rule Edit

Save

Save & New

Cancel

Rule Name

rating_should_be_less_than_5

Active

☒

Description

Error Condition Formula

Example: Discount_Percent__c>0.30

More Examples...

Display an error if Discount is more than 30%

If this formula expression is true, display the text defined in the Error Message area

Insert Field

Insert Operator

NOT(REGEX(Rating_for_service__c , "[1-5]{1}"))

Check Syntax

Functions

-- All Function Categories -

ABS

ACOS

ADDMONTHS

AND

ASCII

ASIN

Insert Selected Function

ABS(number)

Returns the absolute value of a number, a number without its sign

Help on this function

Error Message

Example: Discount percent cannot exceed 30%

This message will appear when Error Condition formula is true

Error Message

rating should be from 1 to 5

This error message can either appear at the top of the page or below a specific field on the page

Error Location

☐ Top of Page

☒ Field

Rating for service

Save

Save & New

Cancel

Task 7: Duplicate Rules

7.1 Defining a Matching Rule for the Customer Details Object

1. Rule Title: *Matching Customer Details*

- **Associated Object:** Customer Details
- **Matching Parameters:**
 - **Email (Gmail):** Matches must be identical.
 - **Phone Number:** Exact value matching is required.
- **Rule Activation:** The rule becomes active immediately upon saving, enabling it to identify duplicates in customer details based on the defined conditions.

d

SETUP

Matching Rules

Matching Rule

Matching customer details

Matching Rule Detail

Delete

Clone

Deactivate

Object	Customer Details
Rule Name	Matching customer details
Unique Name	Matching_customer_details
Description	
Matching Criteria	(Customer Details: Email EXACT MatchBlank = FALSE) AND (Customer Details: Phone_number EXACT MatchBlank = FALSE)
Status	Active
Created By	Shefali Jain, 09/12/2024, 10:16 pm

7.2 Configuring a Duplicate Rule for the Customer Details Object

1. Rule Name:Customer Detail Duplicate

- **Associated Object:** Customer Details
- **Matching Rule Applied:** Leverages the pre-existing "Matching Customer Details" rule.
- **Activation Process:** Once the rule is saved, it is enabled to identify duplicate customer records according to the defined matching conditions.

SETUP

Duplicate Rules

Customer Details Duplicate Rule

Customer Detail duplicate

Duplicate Rule Detail

Edit

Delete

Clone

Deactivate

Order

1 of 1

[Reorder]

[X]

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 checked="" type="checkbox"/>
Matching Rule	<input checked="" type="checkbox"/> Matching customer details <input checked="" type="checkbox"/> Masood
Matching Criteria	(Customer Details: Email EXACT MatchBlank = FALSE) AND (Customer Details: Phone_number EXACT MatchBlank = FALSE)
Conditions	
Created By	Shafiq Jais 06/12/2024, 10:24 pm
Modified By	Shafiq Jais 06/12/2024, 10:24 pm

Edit

Delete


Clone

Deactivate

Task 8: Profiles

8.1 Manager Profile Creation

- 1. **Profile Cloning**
 - Start by duplicating the Standard User profile to develop a new profile titled "Manager."
- 2. **Default App Configuration**
 - Assign the Garage Management Application as the primary custom app for this profile.
- 3. **Object Access Permissions**
 - Enable access to the following objects for the Manager profile:
 - Appointments
 - Billing Details and Feedback
 - Service Records
 - Customer Details
- 4. **Session Timeout Settings**
 - Adjust the session timeout duration to 8 hours of inactivity.
- 5. **Password Policy Adjustments**
 - Ensure passwords do not expire.
 - Require a minimum password length of 8 characters.



SETUP

Profiles

Profile

Manager

Help for this

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

Login IP Ranges [0] | Enabled Apex Class Access [0] | Enabled Visualforce Page Access [0] | Enabled External Data Source Access [0] | Enabled Named Credential Access [0] | Enabled External Credential Principal Access [0] | Enabled Custom Metadata Type Access [0] | Enabled Custom Setting Definitions Access [0] | Enabled Flow Access [0] | Enabled Service Presence Status Access [0] | Enabled Custom Permissions [0]

Profile Detail

Profile: Manager - Salesforce - Developer Edition

Clone


Delete

View Users

Name	Manager	
User License	Salesforce	Custom Profile ✓
Description		
Created By	Shetali Jain, 09/12/2024, 10:28 pm	Modified By Shetali Jain, 12/12/2024, 9:57 pm

8.2 Setting Up the Sales Person Profile

- 1. Duplicating an Existing Profile
 - Create a new profile named "Sales Person" by cloning the existing **Salesforce Platform User** profile.
- 2. Default Application Configuration
 - Configure the **Garage Management Application** as the default custom app for the Sales Person profile.
- 3. Access Permissions for Custom Objects
 - Provide appropriate access to the following custom objects:
 - **Appointments**
 - **Billing Details and Feedback**
 - **Service Records**
 - **Customer Details**



SETUP

Profiles

Profile

sales person

Help for this Page

Users with this profile have the permissions and page layouts listed below. Administrators can change a user's profile by editing that user's personal information.

If your organization uses Record Types, use the Edit links in the Record Type Settings section below to make one or more record types available to users with this profile.

Login IP Ranges | Enabled Apex Class Access | Enabled Visualforce Page Access | Enabled External Data Source Access | Enabled Named Credential Access | Enabled External Credential Principal Access | Enabled Custom Metadata Type Access | Enabled Custom Setting Definitions Access | Enabled Flow Access | Enabled Service Presence Status Access | Enabled Custom Permissions

Profile Detail

EditCloneDeleteView Users

Name	sales person		
User License	Salesforce Platform	Custom Profile	✓
Description			
Created By	Shefali Jain	09/12/2024, 10:34 pm	Modified By Shefali Jain 12/12/2024, 9:57 pm

Here's a rephrased version of your content:

Task 9: Role and Role Hierarchy



9.1 Creating the Manager Role

1. **Access the Role Setup Section:**
 - Go to the roles setup area within Salesforce.
2. **Expand the Role Hierarchy:**
 - Expand the list of existing roles and add the new "Manager" role under the relevant parent role.
3. **Set Role Details:**
 - Enter "Manager" as the role label and save the changes.

Role Edit

Manager

Role Edit

Label	<input type="text" value="Manager"/>
Role Name	<input type="text" value="Manager"/> 
This role reports to	<input type="text" value="CEO"/> 
Role Name as displayed on reports	<input type="text"/>

Here's a revised version of your content, written in a way that feels more original:

9.2 Defining the Sales Person Role

1. **Access the Role Setup Section:**
 - Begin by navigating to the roles setup area within Salesforce.
2. **Add a New Role Under Manager:**
 - Locate the CEO role and expand it. From there, create a new role positioned under the Manager category.
3. **Configure Role Information:**
 - Label the new role as "Sales Person" and save the changes to finalize the setup.

Role Edit

sales person

Role Edit	
Label	<input type="text" value="sales person"/>
Role Name	<input type="text" value="sales_person"/> 
This role reports to	<input type="text" value="Manager"/> 
Role Name as displayed on reports	<input type="text"/>

Task 10: Users

10.1 Creating a Manager User

1. **Navigate to User Setup:**

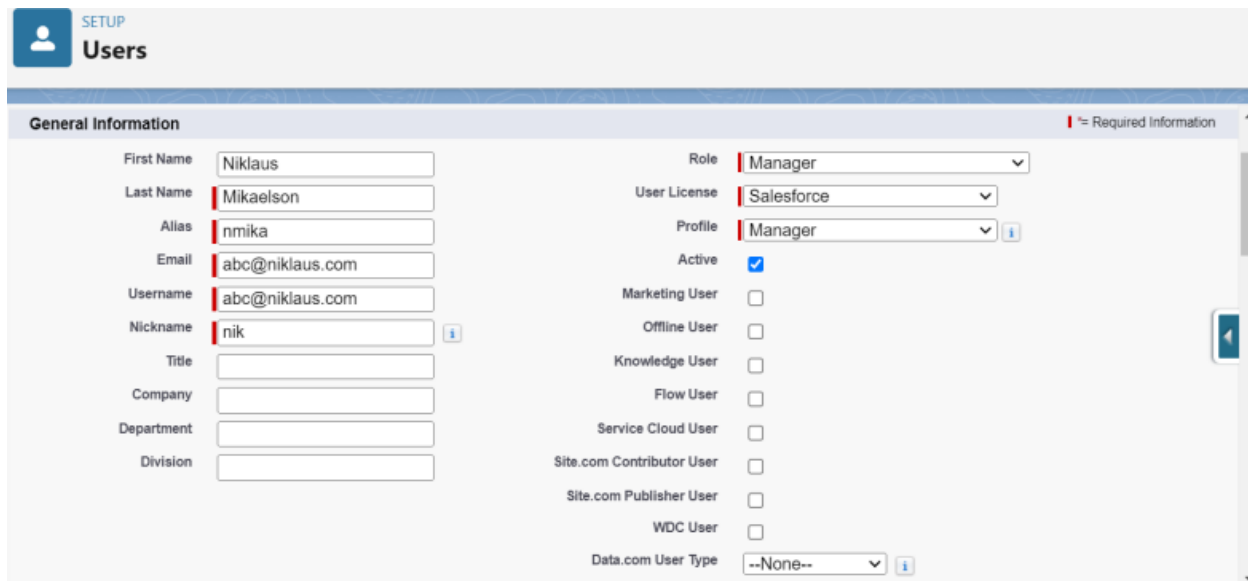
- Go to the users section in Salesforce setup to begin.

2. **Enter New User Information:**

- Complete the necessary fields with the user's details, including first name, last name, alias, email, username, and nickname.
- Assign the role "Manager" to the user.
- Choose the "Salesforce" license for the user.
- Set the profile to "Manager."

3. **Save the User Configuration:**

- Save the entered details to create the new Manager user.



The screenshot displays the Salesforce 'Users' setup page. The 'General Information' tab is active, showing a form for creating a new user. The form is divided into two columns. The left column contains fields for First Name (Niklaus), Last Name (Mikaelson), Alias (nmika), Email (abc@niklaus.com), Username (abc@niklaus.com), Nickname (nik), Title, Company, Department, and Division. The right column contains fields for Role (Manager), User License (Salesforce), Profile (Manager), Active (checked), Marketing User, Offline User, Knowledge User, Flow User, Service Cloud User, Site.com Contributor User, Site.com Publisher User, WDC User, and Data.com User Type (None). A red exclamation mark icon indicates required information. A blue arrow icon is visible on the right side of the form.

Field	Value
First Name	Niklaus
Last Name	Mikaelson
Alias	nmika
Email	abc@niklaus.com
Username	abc@niklaus.com
Nickname	nik
Title	
Company	
Department	
Division	
Role	Manager
User License	Salesforce
Profile	Manager
Active	<input checked="" type="checkbox"/>
Marketing User	<input type="checkbox"/>
Offline User	<input type="checkbox"/>
Knowledge User	<input type="checkbox"/>
Flow User	<input type="checkbox"/>
Service Cloud User	<input type="checkbox"/>
Site.com Contributor User	<input type="checkbox"/>
Site.com Publisher User	<input type="checkbox"/>
WDC User	<input type="checkbox"/>
Data.com User Type	--None--

10.2 Creating Users for Sales Personnel

1. Navigate to User Setup:

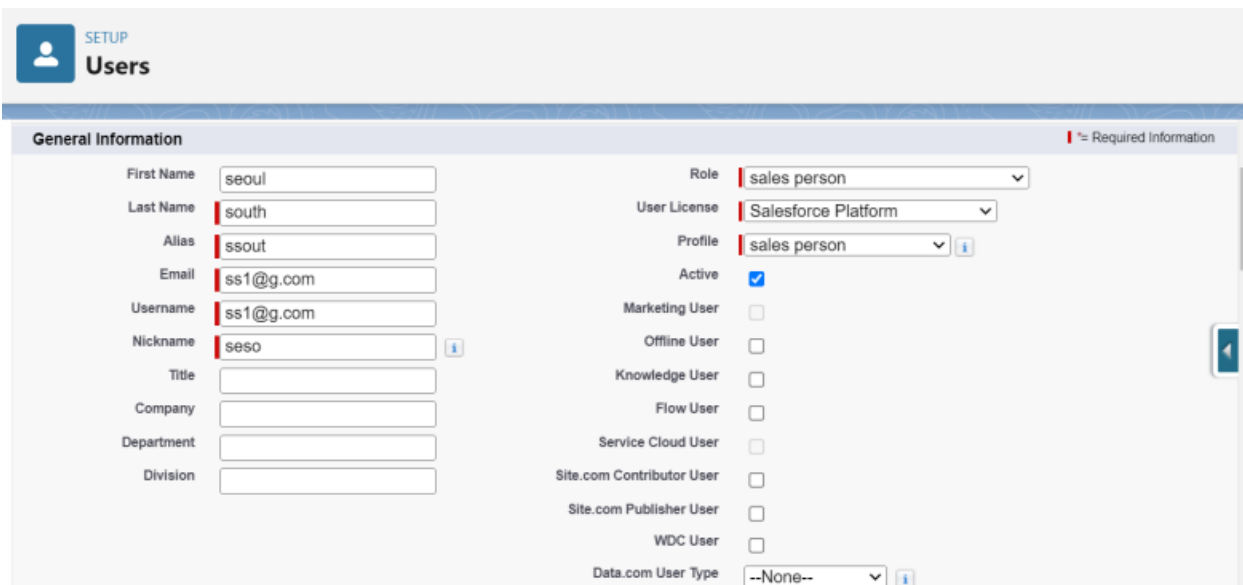
- Go to the User section in Salesforce setup to begin the user creation process.

2. Enter User Information:

- Complete the necessary fields with the user's information.
- Choose the "Sales Person" role for the user.
- Select "Salesforce Platform" as the user license.
- Assign the "Sales Person" profile to the user.

3. Save and Duplicate:

- Save the user details and repeat the steps to create a minimum of three users with the designated role and profile.



The screenshot displays the Salesforce Setup interface for creating a new user. The top navigation bar shows the 'SETUP' icon and the 'Users' section. The 'General Information' tab is selected, and a red asterisk indicates required fields. The form is divided into two columns. The left column contains text input fields for First Name (seoul), Last Name (south), Alias (ssout), Email (ss1@g.com), Username (ss1@g.com), Nickname (seso), Title, Company, Department, and Division. The right column contains dropdown menus for Role (sales person), User License (Salesforce Platform), and Profile (sales person), along with checkboxes for Active (checked), Marketing User, Offline User, Knowledge User, Flow User, Service Cloud User, Site.com Contributor User, Site.com Publisher User, and WDC User. A Data.com User Type dropdown is set to --None--.

Field	Value
First Name	seoul
Last Name	south
Alias	ssout
Email	ss1@g.com
Username	ss1@g.com
Nickname	seso
Title	
Company	
Department	
Division	
Role	sales person
User License	Salesforce Platform
Profile	sales person
Active	<input checked="" type="checkbox"/>
Marketing User	<input type="checkbox"/>
Offline User	<input type="checkbox"/>
Knowledge User	<input type="checkbox"/>
Flow User	<input type="checkbox"/>
Service Cloud User	<input type="checkbox"/>
Site.com Contributor User	<input type="checkbox"/>
Site.com Publisher User	<input type="checkbox"/>
WDC User	<input type="checkbox"/>
Data.com User Type	--None--

Here's a rewritten version of the content to make it unique:

Task 11

Public Groups

11.1 Creating a Public Group for the Sales Team

1. **Navigate to Public Groups Setup:**
 - Go to the Salesforce setup and find the Public Groups section.
2. **Specify Group Details:**
 - Enter a label, such as "Sales Team," which will automatically generate the group name.
3. **Add Members to the Group:**
 - In the member selection area, search for roles, then choose the "Sales Person" role and add it to the selected members.
4. **Save the Configuration:**
 - Click the save option to finalize the creation of the new public group.

Group Membership

Group: sales team

The screenshot shows the 'Edit Public Group' interface in Salesforce. At the top, there's a 'Group Information' header with 'Save' and 'Cancel' buttons. Below it, the 'Edit Public Group' section contains the following fields:

- Label:** A text box containing 'sales team'.
- Group Name:** A text box containing 'sales_team'.
- Grant Access Using Hierarchies:** A checkbox that is checked.

Below these fields is a search bar with a dropdown menu set to 'Public Groups' and a 'Find' button. The main area is divided into two columns:

- Available Members:** A list box showing '--None--'.
- Selected Members:** A list box showing 'Role: sales person'.

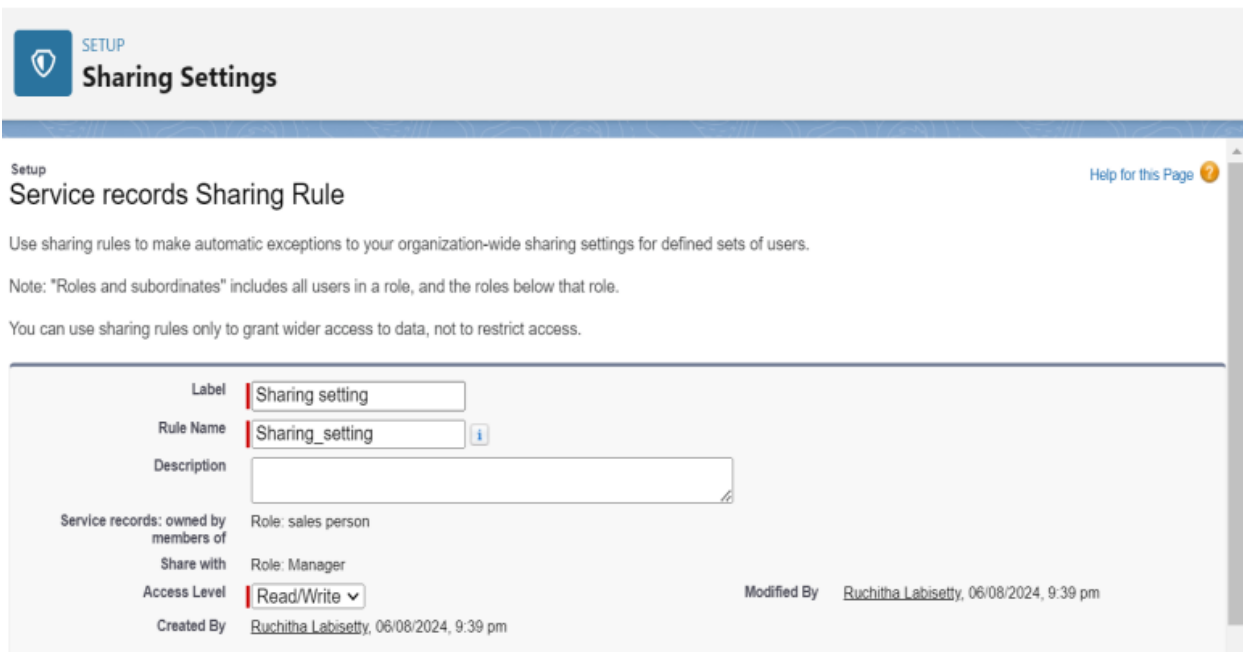
Between these two columns are 'Add' and 'Remove' buttons. At the bottom right, there are 'Save' and 'Cancel' buttons.

Here's a revised version of the content, rephrased to sound original:

Task 12: Sharing Settings

12.1 Configuring Sharing Settings for Service Records

1. **Access Sharing Settings:**
 - Go to the **Sharing Settings** section within Salesforce setup.
2. **Modify Object-Wide Default (OWD):**
 - Set the OWD for the **Service Records** object to "Private" in order to restrict default record access.
3. **Create a New Sharing Rule:**
 - Establish a new sharing rule to allow specific roles access to records.
4. **Define the Sharing Rule Details:**
 - Assign a clear label to the sharing rule, such as "Sharing Setting."
 - Identify the roles to be included in the rule, such as "Sales Person."
 - Choose the recipients of access, for example, "Manager."
 - Configure the access level to "Read/Write."
5. **Save and Refresh:**
 - Save the sharing rule and refresh the settings to apply the changes.



The screenshot shows the Salesforce Setup interface for configuring a sharing rule. The top navigation bar includes the 'SETUP' icon and the 'Sharing Settings' title. The main content area is titled 'Service records Sharing Rule' and includes a 'Help for this Page' link. Below the title, there is a brief explanation of sharing rules and a note about the 'Roles and subordinates' relationship. The main configuration section contains several fields: 'Label' (Sharing setting), 'Rule Name' (Sharing_setting), and 'Description' (empty). Below these, there are two rows for defining the rule: 'Service records: owned by members of' (Role: sales person) and 'Share with' (Role: Manager). The 'Access Level' is set to 'Read/Write' via a dropdown menu. At the bottom, the 'Created By' and 'Modified By' fields both show 'Ruchitha Labisetty' with a timestamp of '06/08/2024, 9:39 pm'.

SETUP Sharing Settings

Setup

Service records Sharing Rule [Help for this Page](#)

Use sharing rules to make automatic exceptions to your organization-wide sharing settings for defined sets of users.

Note: "Roles and subordinates" includes all users in a role, and the roles below that role.

You can use sharing rules only to grant wider access to data, not to restrict access.

Label

Rule Name [i](#)

Description

Service records: owned by members of Role: sales person

Share with Role: Manager

Access Level [v](#)

Modified By [Ruchitha Labisetty](#), 06/08/2024, 9:39 pm

Created By [Ruchitha Labisetty](#), 06/08/2024, 9:39 pm

Task 13: Flows

13.1 Creating the Flow

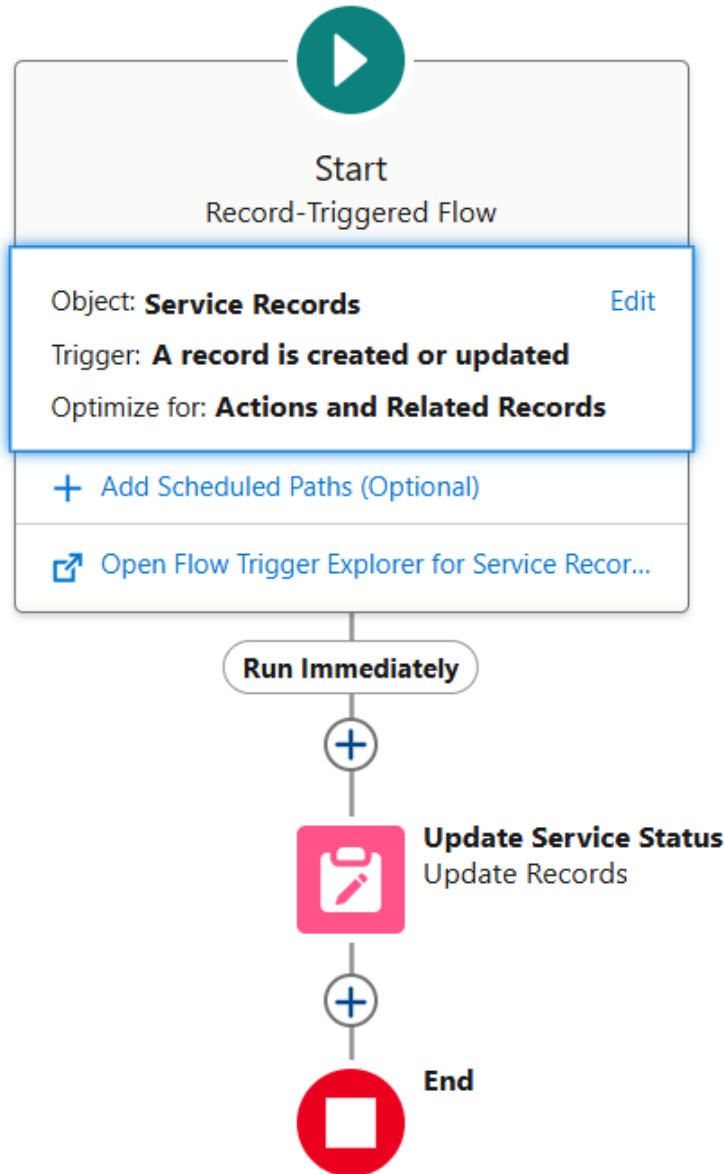
1. **Start the Flow Setup**
 - Navigate to the Flow setup page and initiate a new Record-Triggered Flow.
2. **Configure the Flow Trigger**
 - Choose **Billing Details and Feedback** as the target object.
 - Set the trigger to activate when a record is either created or updated.
 - Select **Actions and Related Records** for optimized flow execution.
3. **Add the Record Update Element**
 - Name this element "**Amount Update.**"
 - Set the condition to update records where **Payment_Status__c** is marked as "Completed."
 - Update the field **Payment_Paid__c** with the service amount fetched from the related Appointment record.
4. **Create and Configure the Email Alert**
 - Create a new resource for the email body using a text template.
 - Format the template with rich text for readability, incorporating dynamic placeholders for specific data.
 - The email should thank the recipient for the payment and display the payment amount.
5. **Insert the Email Action**
 - Add an **Action** element to send the email.
 - Use the previously created text template to populate the email body.
 - Dynamically define the recipient using the related record's data.
 - Set the subject line of the email to "**Thank You for Your Payment - Garage Management.**"
6. **Save and Activate the Flow**
 - Save the flow with a suitable label and auto-generated API name.
 - Activate the flow to begin its execution.

Last saved on 13/12/2024, 12:51 am

Active

Run

Debug



To rephrase the content while retaining the technical accuracy and ensuring it doesn't look like a direct copy:

Task 14

Apex Triggers

14.1 Apex Handler: AmountDistributionHandler

Objective: This Apex class is designed to calculate and update the service amount in the **Appointment__c** object, depending on the selected services.

Class Details:

- **Class Name:** AmountDistributionHandler
- **Method Name:** amountDist
- **Parameters:** Accepts a list of **Appointment__c** records for processing.

Functionality:

- Iterates through the list of appointments.
- Updates the **Service_Amount__c** field based on the selected service combinations:
 - All services selected: 10000
 - Maintenance & Repairs: 5000
 - Maintenance & Replacement Parts: 8000
 - Repairs & Replacement Parts: 7000
 - Maintenance only: 2000
 - Repairs only: 3000
 - Replacement Parts only: 5000

Trigger: AmountDistribution

Objective: This trigger is designed to call the **AmountDistributionHandler** class to update the **Service_Amount__c** field whenever an **Appointment__c** record is either inserted or updated.

Trigger Details:

- **Trigger Name:** AmountDistribution
- **sObject:** Appointment__c
- **Trigger Events:** Before insert, Before update

Trigger Logic:

- Checks if the event is a before insert or before update.
- Calls the **amountDist** method from **AmountDistributionHandler** to update the relevant fields on the **Appointment__c** records.

Code:

```
trigger AmountDistribution on Appointment__c (before insert, before
```

```
update) {  
    if (trigger.isbefore && (trigger.isinsert || trigger.isupdate)) {  
        AmountDistributionHandler.amountDist(trigger.new);  
    }  
}
```

Task 15

Reports

15.1 Creating a Report Folder

Objective: To keep reports organized by creating a dedicated folder.

Steps:

- Go to the **Reports** tab via the app launcher.
- Click on **New Folder** and name it "Garage Management Folder". The system will automatically generate a unique name.
- Save the folder to store related reports.

15.2 Sharing the Report Folder

Objective: Control access to the folder where reports are stored.

Steps:

- Navigate to the **Reports** tab and find the "Garage Management Folder".
- Click the dropdown next to the folder name and select **Share**.
- Select **Roles** for the sharing option, search for the **Manager** role, and assign **View** access.
- Finalize the sharing settings by clicking **Done**.

15.3 Creating a Custom Report Type

Objective: Define a custom report type that includes multiple related objects.

Steps:

- Go to **Setup** and search for **Report Types**.
- Click on **New Custom Report Type**.
- Set the primary object as **Customer Details**.
- Name the report type "Service Information" and confirm the auto-generated name.
- Categorize it under **Other Reports** and set the status to **Deployed**.
- Click **Next** to define related objects:
 - Appointment Object

- Service Records
- Billing Details and Feedback
- Save the new report type.

15.4 Creating a Report

Objective: Generate a detailed report using the newly created custom report type.

Preparation: Ensure there are at least 10 records for each object to generate a comprehensive report.

Steps:

- Access the **Reports** tab and click on **New Report**.
- Choose **Other Reports** as the category and select **Service Information** as the report type.
- Open the report builder and configure the necessary fields:
 - **Columns:** Customer Name, Appointment Date, Service Status, Payment Paid
 - **Group Rows:** Rating for Service, Payment Status
- Add a **Line Chart** to visualize the data.
- Save the report with the name "New Service Information Report", ensuring that the unique name is auto-populated, and the report is saved under the "Garage Management Folder".

Total Records
5

Total Payment Paid
₹47,000

Rating for service	Payment Status	Pending	Completed	Total
-	Sum of Payment Paid Record Count	₹10,000 1	₹15,000 2	₹25,000 3
3	Sum of Payment Paid Record Count	₹0 0	₹10,000 1	₹10,000 1
5	Sum of Payment Paid Record Count	₹12,000 1	₹0 0	₹12,000 1
Total	Sum of Payment Paid Record Count	₹22,000 2	₹25,000 3	₹47,000 5

Details (5 Rows)

i Click an intersection in the table above to filter details.

	Customer Name	Appointment Date	Service Status	Payment Paid
1	Bonnie	01/12/2024	Completed	₹10,000
2	Katherina	12/12/2024	Completed	₹5,000
3	Bonnie	07/12/2024	Completed	₹10,000
4	Hope	11/12/2024	Completed	₹10,000
5	Hope	02/12/2024	Completed	₹12,000

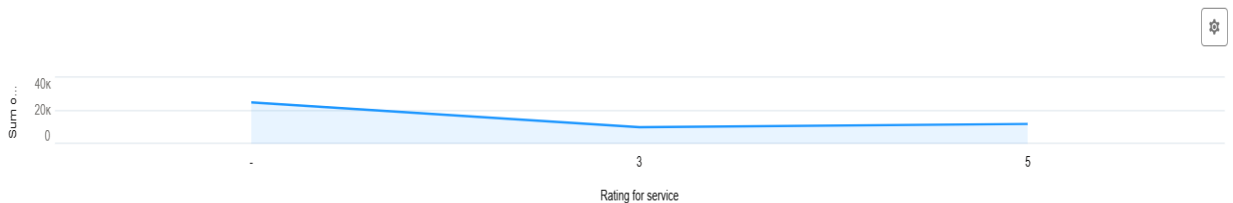
Row Counts

Detail Rows

Grand Total

Stacked Summaries

Total Records	Total Payment Paid
5	₹47,000



Task 16: Dashboards

16.1 Creating a Dashboard Folder

Objective: Organize dashboards by creating a dedicated folder.

Steps:

- Open the Dashboards tab using the app launcher.
- Click on "New Folder" and name it "Service Rating Dashboard." The system will auto-generate a unique name.
- Save the folder to efficiently manage and group related dashboards.

Sharing the Dashboard Folder

Objective: Set permissions for accessing the folder.

Steps:

- Find the "Service Rating Dashboard" folder in the Dashboards tab.
- Click the dropdown menu next to the folder name and choose "Share."
- Assign the necessary permissions based on user roles to allow the appropriate team members to view or edit the dashboards.
- Confirm the sharing settings to complete the process.

16.2 Creating a Dashboard

Objective: Design a dashboard to display data and insights visually.

Steps:

- Go to the Dashboards tab and select "New Dashboard."
- Name the dashboard and choose the "Service Rating Dashboard" folder you created earlier.
- Click "Create" to begin designing the dashboard.
- Add a new component by clicking "Add Component."
- Select a report to base the dashboard on and choose a Line Chart for the visualization.
- Customize the chart's theme as per your preference.
- Click "Add" to insert the component into the dashboard and then click "Save" and "Done."

Subscribing to the Dashboard

Objective: Set up automated dashboard updates.

Steps:

- After saving the dashboard, click the "Subscribe" button at the top right.
- Set the subscription frequency to "Weekly."

- Choose Monday as the preferred day for the report to be sent.
- Click "Save" to activate the subscription, ensuring you receive regular updates.

