

GARAGE MANAGEMENT SYSTEM

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College code:bru3d

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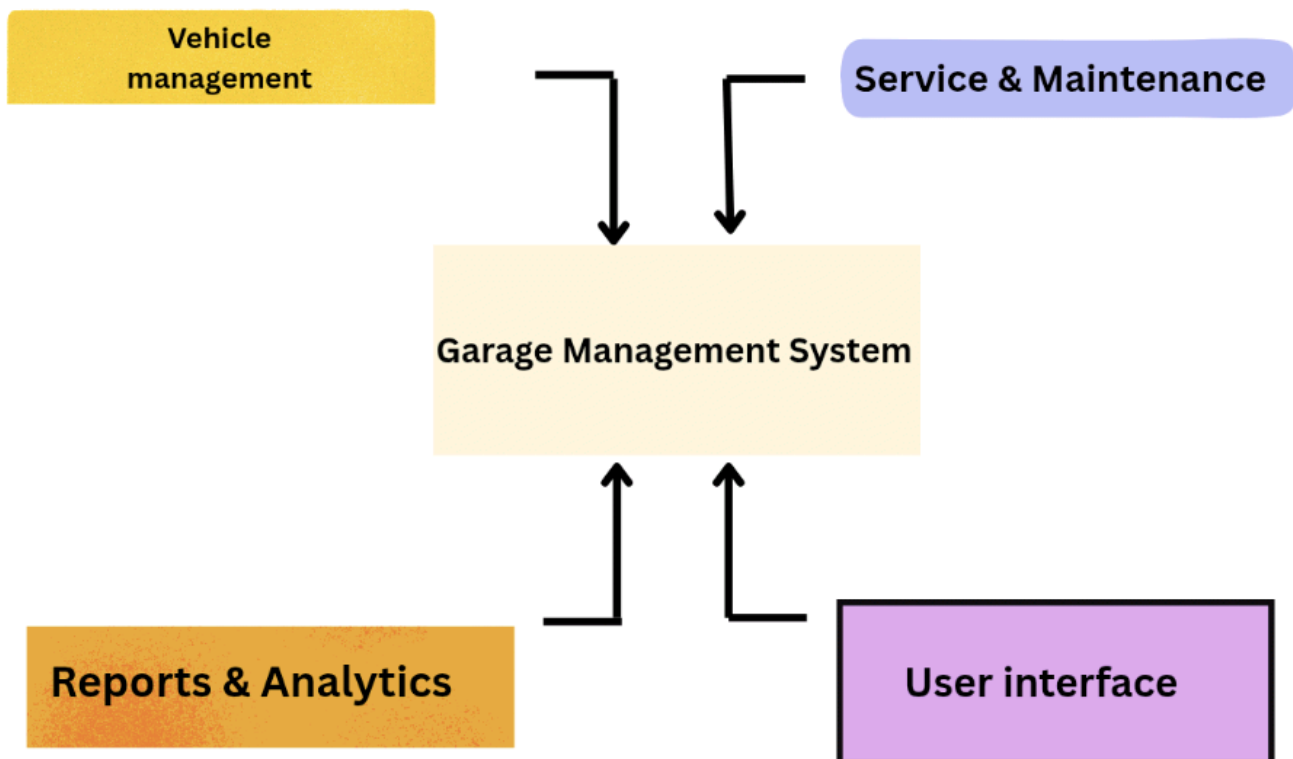
1.INTRODUCTION

1.1 Project Overview

The Garage management system is designed to improve accuracy, reduce manual efforts and provide better visibility into vehicle maintenance, inventory and service data for automotive garages

Garage Management System

The system is designed to improve efficiency, reduce manual effort, and provide better visibility into garage operations, vehicle records, and service history.



1.2 Purpose

The purpose of the Garage Management System is to provide an efficient and user-friendly platform that streamlines vehicle management service scheduling and repair tracking. It ensures accurate record-keeping of customer vehicles, facilitates seamless billing and service transactions, and enhances overall operational efficiency for garage businesses.



Creating Developer Account:

Creating a developer org in salesforce.

1. Go to <https://developer.salesforce.com/signup>
2. On the sign up form, enter the following details :

The screenshot shows the Salesforce Developer Edition sign-up page. The browser address bar displays 'salesforce.com/form/de'. The page has a dark blue header with the Salesforce logo and a navigation menu. The main content area is white and contains the sign-up form. The form includes fields for First name (Farhana), Last name (M), Job title (Salesforce developer), Work email (farhanakasm200), Company (Bharathidasan college), and Country/Region (India). There is a checkbox for 'I agree to the Main Services Agreement' and a 'Sign Me Up' button. The footer contains links for 'Worldwide', 'Legal', 'Terms of Service', 'Privacy Information', 'Responsible Disclosure', 'Trust', and 'Contact'. A TRUSTe logo is also visible in the bottom right corner.

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

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

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First name Last name

Farhana M

Job title Work email

Salesforce developer farhanakasm200

Company Country/Region

Bharathidasan college India

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

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

We value your privacy. To learn more, visit our Privacy Statement.

☐ I'm not a robot

Sign Me Up

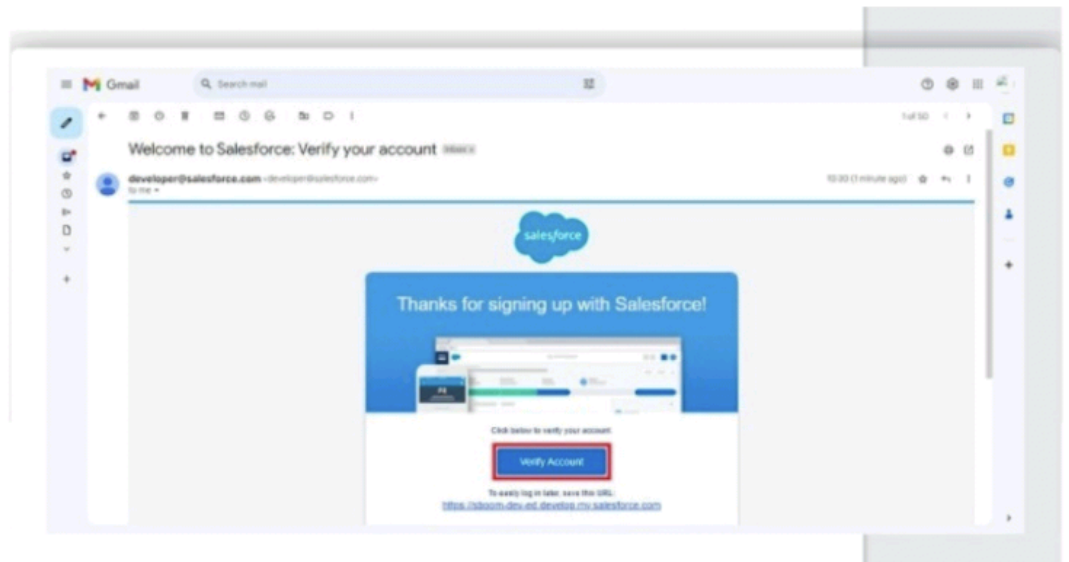
Worldwide

Legal Terms of Service Privacy Information Responsible Disclosure Trust Contact

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Account Activation

Go to the inbox of the email that you used while signing up. Click on the verify account to activate your account. The email may take 5-10mins.



Click on Verify Account

Give a password and answer a security question and click on change password.

Change Your Password

Enter a new password for lead@sb.com.
Make sure to include at least:

- 8 characters
- 1 letter
- 1 number

* New Password

* Confirm New Password

Security Question

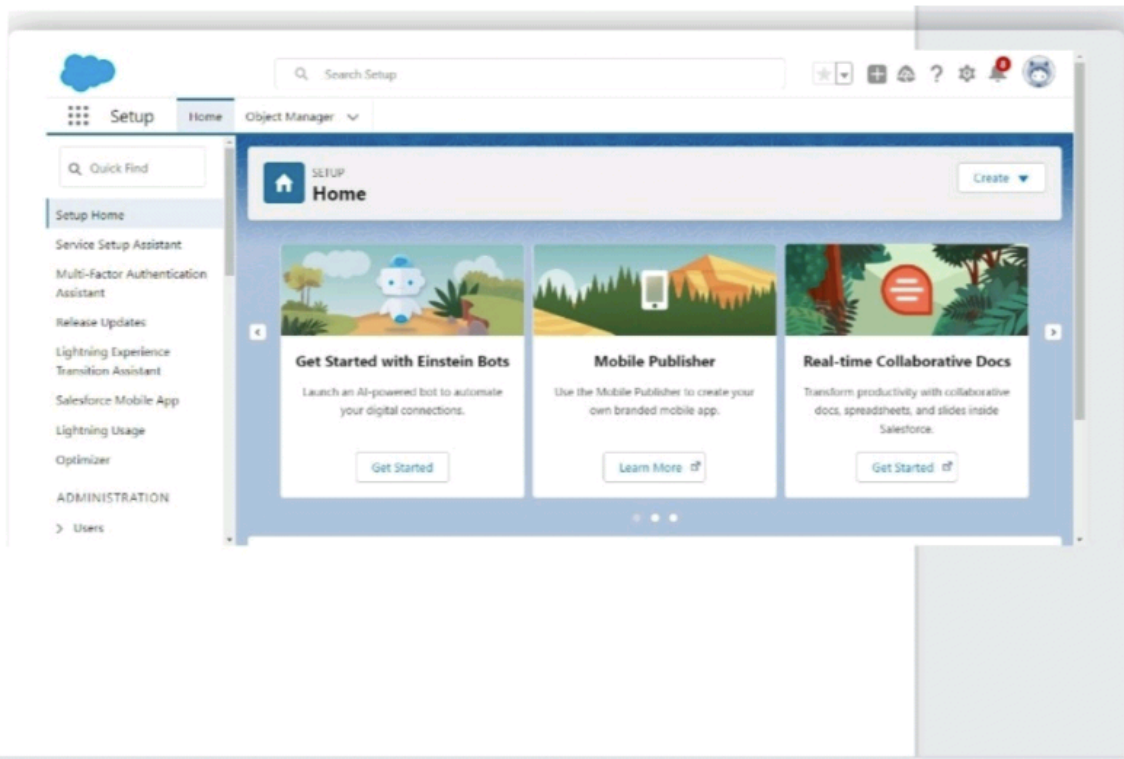
▼ In what city were you born?

* Answer

asdfghikl

Change Password

Then you will redirect to your salesforce setup page.



► Object

Create Customer DetailsObject



Create Appointment Object



Create Service records Object



[illegible]

←
↘

New Custom Object | Sal...

v2.ed.develop.lightning.force.com

⌵
⋮

Setup
Home
Object Manager

New Custom Object

Help for this Page

Permissions for this object are controlled by profiles by default. You can enable object permissions in permission sets or by editing existing profiles. [Go to Profiles](#)

Custom Object Definition Edit

Save Done Cancel

Custom Object Information

The singular and plural labels are used in tabs, page headers, and reports.

Singular Label	<input type="text" value="Lead"/>	Example Account
Plural Label	<input type="text" value="Leads"/>	Example Accounts

Starts with lowercase ☐

The Object Name is used when referencing the object via the API.

API Name	<input type="text" value="lead_00kx"/>	Example Account
----------	--	-----------------

Description

Combination key help setting

☒ Open the standard Salesforce.com help & Training window
☐ Open a window using a Visualforce page

Standard Name

Edit Record Name Label and Format

The Record Name appears in page layouts, key lists, related lists, toolbars, and search results. For example, the RecordName for Account is "Account Name" and for Case it is "Case Number". Note that the Record Name has to always contain "Name" when referenced via the API.
 Restrictions: [Record Name Rules](#) [Example Account Name](#)

Site Type	<input type="text" value="Text"/>	Warning: If you plan to insert a large volume of records in this object, and the API, for example, use the first Data type.
-----------	-----------------------------------	---

Optional Features

- ☒ Allow Reports
- ☒ Admin Activities
- ☒ Track Field History
- ☐ Allow External Sharing
- ☐ Enable Chatter

Object Classification

When these settings are enabled, this object is classified as an Enterprise Application object. When these settings are disabled, this object is classified as a Light Application object's user record.

- ☒ Allow Sharing
- ☒ Store Bulk API Events
- ☐ Allow Incoming Call Access

Deployment Status

☐ In Development [What's New](#)

☒ Deployed

Search Status

When this setting is enabled your users can find records of this objectType when they search. [Learn more](#)

☒ Allow Search

Object Creation Options (Available only when custom object is first created)

- ☐ Add Roles and Relationships related to the default page layout
- ☐ Launch the Home Screen After Object after saving the custom object

Save
Done & More
Cancel

► Tabs

Creating a Custom Tab

To create a Tab:(Customer Details)

The screenshot displays the Salesforce Setup interface on a mobile device. The top navigation bar shows 'Tabs | Salesforce' and the URL 'v-ed.develop.lightning.force.com'. Below the navigation bar, the 'Setup' menu is open, and the 'Tabs' section is selected. The 'Custom Tab Definition Edit' form is visible, showing the 'Customer Detail' tab. The form includes fields for 'Tab Label', 'Tab Name', 'Tab Icon', and 'Tab Type'. The 'Tab Label' is 'Customer Detail', the 'Tab Name' is 'Customer Detail', and the 'Tab Icon' is a red icon with a white 'C'. The 'Tab Type' is 'Standard'. Below these fields, there is a section for 'Optional: Choose a Home Page Custom Link to show as a splash page the first time your users click on this tab.' with a dropdown menu set to 'None'. At the bottom of the form, there is a 'Description' field and 'Save' and 'Cancel' buttons. A black arrow points to the 'Save' button.

← ▾ Tabs | Salesforce
v-ed.develop.lightning.force.com

Search Setup


Setup
Tabs

Get Custom Object Tab
Customer Detail ¹ [Help for this Page](#)

Fill in the fields below to define the custom tab.

Custom Tab Definition Edit

Custom Object Tab Information Required Information

Tab Label	Customer Detail ¹
Tab Name	Customer Detail
Tab Icon	 Add Remove

(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
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Enter a short description.

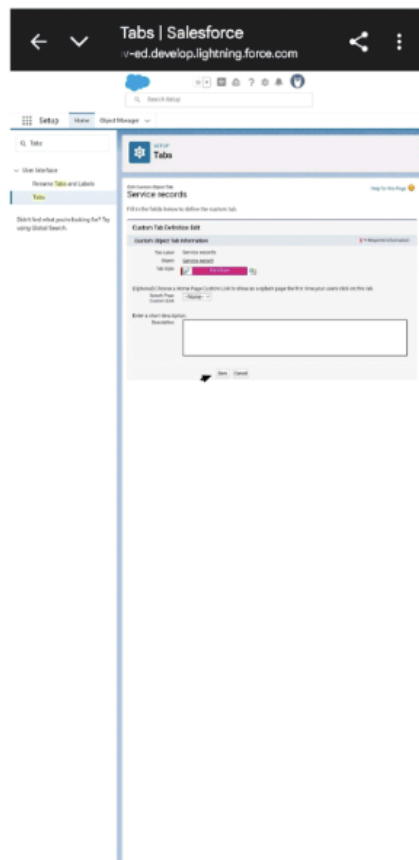
Description

Save Cancel

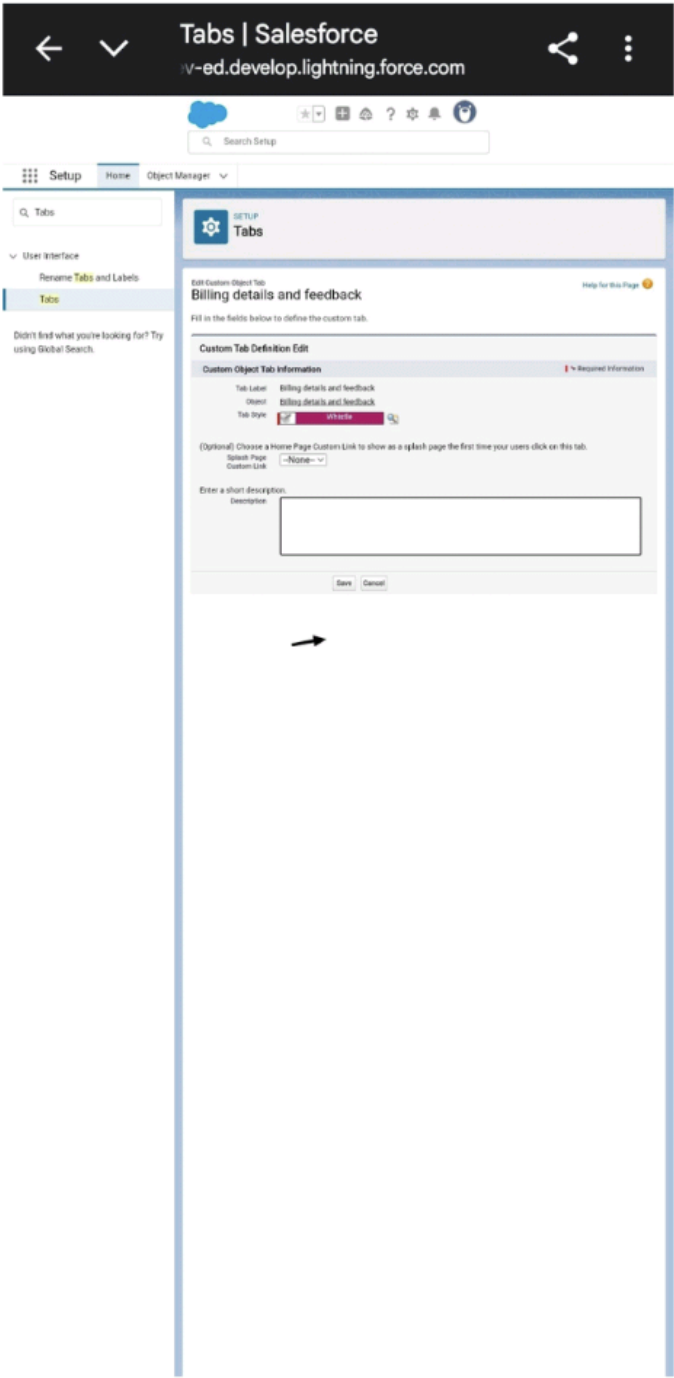
To create a Tab:(Appointments)



To create a Tab:(Service record)



To create a Tab:(Billing details and feedback)



► The Lightning App

1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.



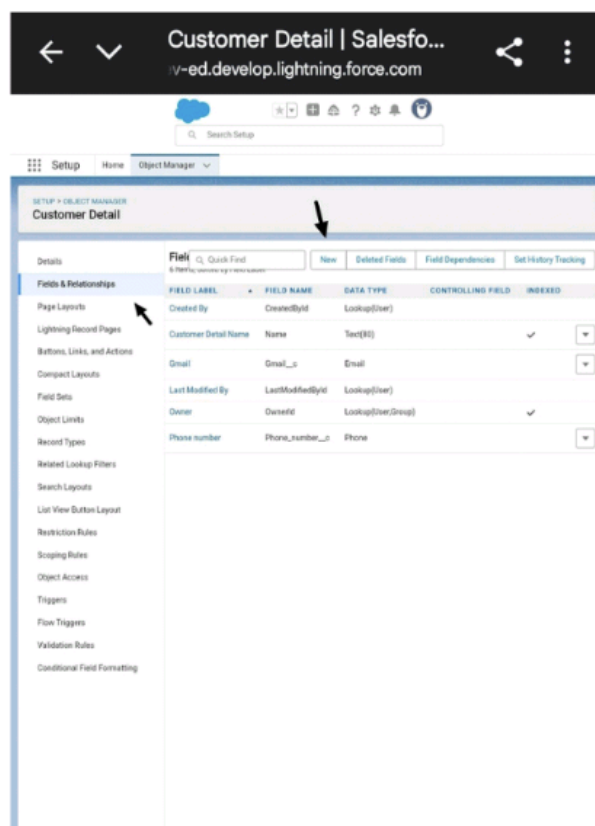
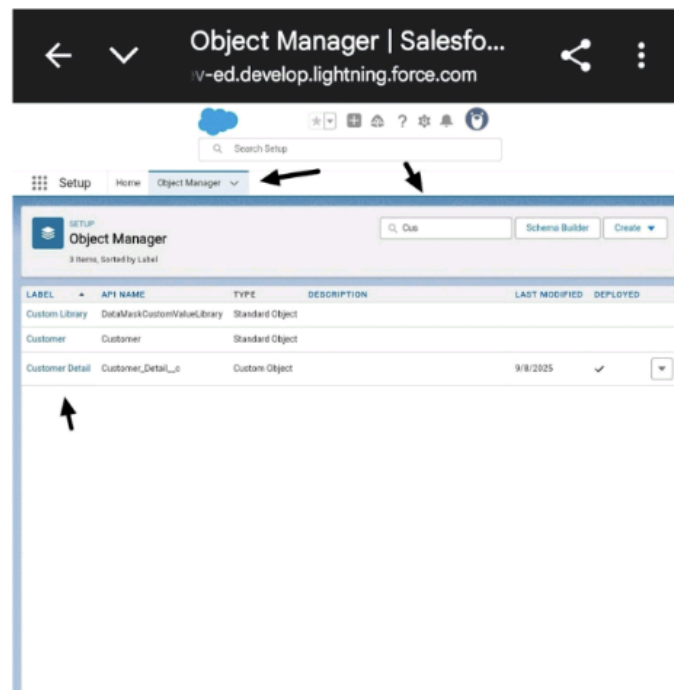
Fill the app name in app details as Garage Management Application >> Next >> (App option page) keep it as default >> Next >> (Utility Items) keep it as default >> Next.



► Fields

Creation of fields for the Customer Details object

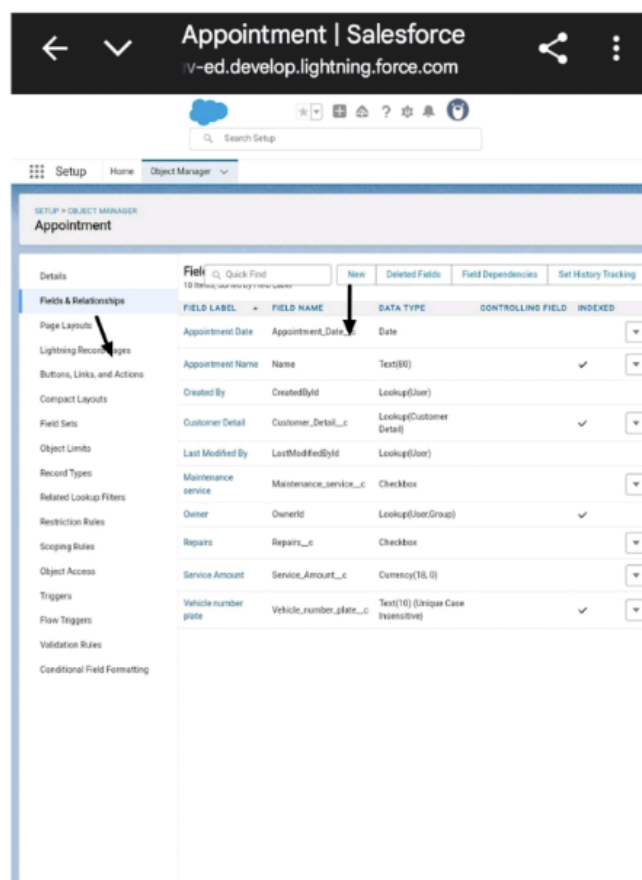
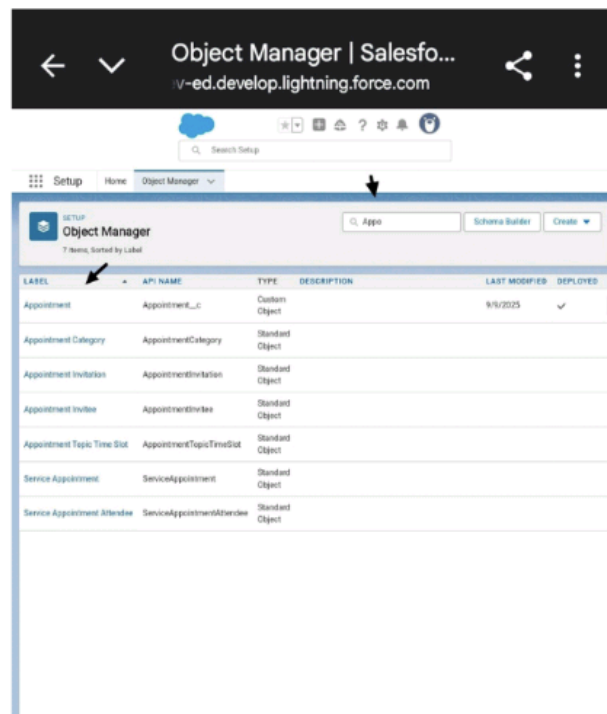
Go to setup >> click on Object Managr >> type object name(Customer Details) in search bar >> click on the object.



Creation of Lookup Fields

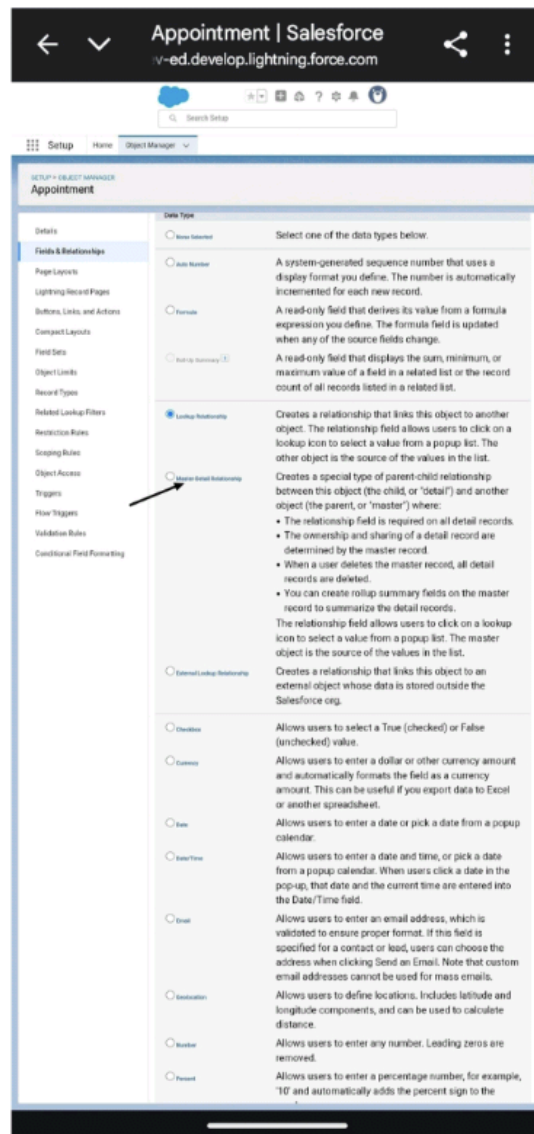
Creation of Lookup Field on Appointment Object :

Go to setup >> click on Object Manager >> type object name(Appointment) in the search bar >> click on the object



Creation of Checkbox Fields

Creation of Checkbox Field on Appointment Object :



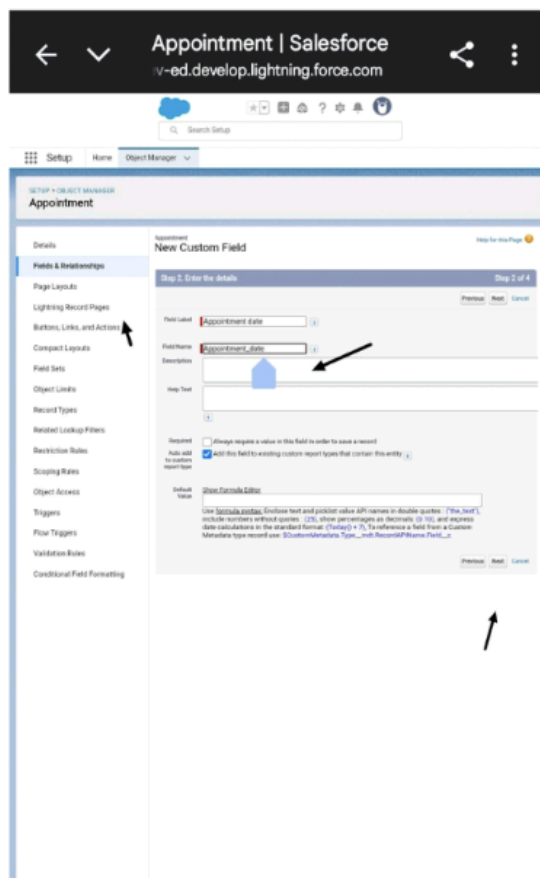
Give the Field Label : Maintenance service

Field Name : is auto populated

Default value : unchecked

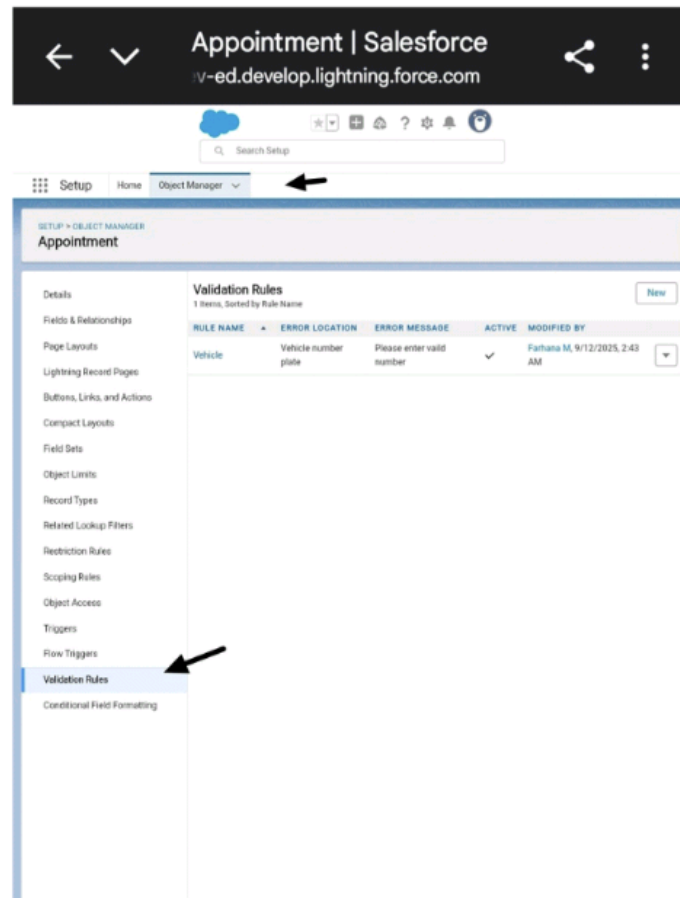
Click on next >> next >> save.

Creation of Date Field on Appointment Object :

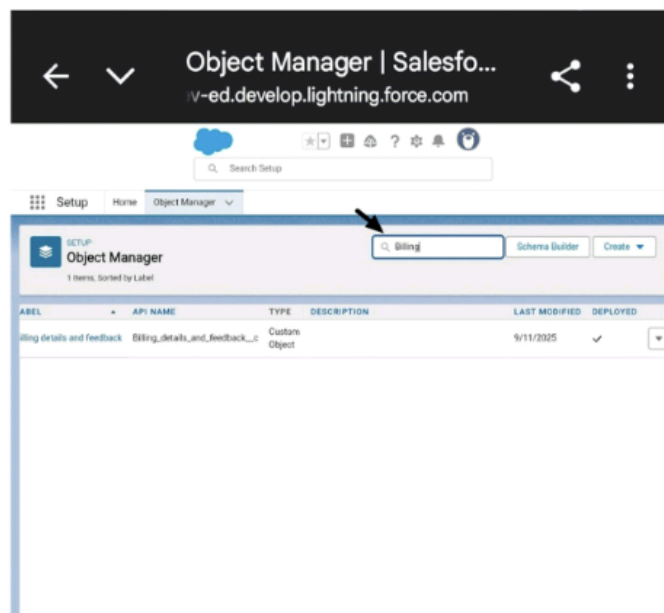


► Validation rule

To create a validation rule to an Appointment Object



To create a validation rule to an Billing details and feedback Object



←

✓

Billing details and feedba...

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v-ed.develop.lightning.force.com

🔍 Search Setup

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Billing details and feedback

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

Scoping Rules

Object Access

Triggers

Flow Triggers

Validation Rules

Conditional Field Formatting

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

←

✓

Billing details and feedba...

↻

⋮

v-ed.develop.lightning.force.com

🔍 Search Setup

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Billing details and feedback

Details

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Flow Triggers

Validation Rules

Conditional Field Formatting

Validation Rules

1 item, Sorted by Rule Name

New

RULE NAME	ERROR LOCATION	ERROR MESSAGE	ACTIVE	MODIFIED BY
rating_should_be_less_than_5	Rating for service	rating should be from 1 to 5	✓	Fahana M. 9/12/2025, 2:50 AM

► Duplicate rule

Go to quick find box in setup and search for matching Rule.

Click on matching rule >> click on New Rule.

Matching Rules | Salesforce.com

Search Setup

Setup Home Object Manager

Matching

Data

Duplicate Management

Matching Rules

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

Matching Rules

All Matching Rules

What Are Matching Rules? [Expand]

View: All Matching Rules Create New Rule

Action	Rule Name	Object	Status	Description	Last Modified Date	Last Modified By
Deactivate	Matching customer details	Customer Detail	Active		9/12/2025	fat
Deactivate	Standard Account Matching Rule	Account	Active	Matching rule for account records. More info	8/26/2025	DEFG
Deactivate	Standard Contact Matching Rule	Contact	Active	Matching rule for contact records. More info	8/26/2025	DEFG
Deactivate	Standard Lead Matching Rule	Lead	Active	Matching rule for lead records. More info	8/26/2025	DEFG

Matching Rules | Salesforce.com

Search Setup

Setup Home Object Manager

Matching

Data

Duplicate Management

Matching Rules

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

Matching Rules

New Matching Rule

Step 1 of 2

Step 1: Select object

Select the object to which this matching rule applies.

Object: Customer Detail

Next Cancel

To create a Duplicate rule to an Customer details Object

This screenshot shows the 'Duplicate Rules' page in Salesforce Setup. The left sidebar contains a navigation menu with 'Duplicate Rules' highlighted. The main content area, titled 'All Duplicate Rules', displays a table of existing rules. A red arrow points to the 'Duplicate Rules' link in the sidebar.

Rule Name	Description	Object	Matching Rule	Action	Last Modified By	Last Modified Date
Customer Detail duplicate		Customer Detail	Matching customer details	<input type="checkbox"/> Fail		9/12/2025
Standard Account Duplicate Rule	Identify accounts that duplicate other accounts.	Account	Standard Account Matching Rule	<input checked="" type="checkbox"/> DEPC		8/29/2025
Standard Contact Duplicate Rule	Identify contacts that duplicate other contacts and leads.	Contact	Standard Contact Matching Rule	<input checked="" type="checkbox"/> DEPC		8/29/2025
Standard Lead Duplicate Rule	Identify leads that duplicate other leads and contacts.	Lead	Standard Contact Matching Rule	<input checked="" type="checkbox"/> DEPC		8/29/2025

This screenshot shows the 'Duplicate Rule Edit' page for a 'Customer Detail' rule. The page is divided into several sections: 'Rule Details', 'Actions', 'Matching Rules', and 'Conditions'. The 'Rule Details' section includes fields for 'Rule Name' and 'Description'. The 'Actions' section allows specifying what happens when a user tries to save a duplicate record, with options for 'Allow', 'Alert', and 'Report'. The 'Matching Rules' section defines how duplicate records are identified, including 'Duplicate Customer Detail' and 'Matching Rule'. The 'Conditions' section allows specifying conditions a record must meet for the rule to run, with a table for 'Field', 'Operator', and 'Value'.

Rule Details

Rule Name:

Description:

Object: Customer Detail

Record Level Security: ☒ Enforce sharing rules ☐ Bypass sharing rules

Actions

Specify what happens when a user tries to save a duplicate record.

Action On Create: ☒ Allow ☒ Alert ☒ Report

Action On Edit: ☒ Allow ☐ Alert ☐ Report

Alert Text:

Matching Rules

Define how duplicate records are identified.

Duplicate Customer Detail:

Matching Rule:

Matching Criteria:

Conditions

Optionally, specify the conditions a record must meet for the rule to run.

Field	Operator	Value
<input type="text" value="None"/>	<input type="text" value="None"/>	<input type="text" value=""/>
<input type="text" value="None"/>	<input type="text" value="None"/>	<input type="text" value=""/>
<input type="text" value="None"/>	<input type="text" value="None"/>	<input type="text" value=""/>
<input type="text" value="None"/>	<input type="text" value="None"/>	<input type="text" value=""/>
<input type="text" value="None"/>	<input type="text" value="None"/>	<input type="text" value=""/>

ADVANTAGES & DISADVANTAGES

Advantages

- Improved efficiency
- Accurate record -keeping
- Enhanced customer satisfaction
- Date-driven decisions
- Time-saving

Disadvantages

- Initial Investment
- Technical Issues
- Data security risks
- Training required
- Dependence on technology

Conclusion

The Garage Management System is a comprehensive solution designed to streamline vehicle management, enhance service tracking, and improve operational efficiency for automotive garages. By providing a user-friendly interface and generating insightful reports, the system enables garages to make data-driven decisions, reduce manual errors, and ultimately improve customer satisfaction. With its robust features and benefits, the Garage Management System is an essential tool for modern automotive garages looking to optimize their operations and stay competitive in the industry.

APPENDIX

- Source Code: Provided in Apex Classes and Triggers

```
public class VehicleManagement {  
    Public static void updateVehicleStatus (Id vehicleId,String status){  
        Vehicle__c vehicle = [SELECT Id, Status__c FROM Vehicle __c WHERE Id = : vehicle Id];  
  
        Vehicle.Status__c = status;  
  
        update vehicle;  
    }  
}
```

```
trigger VehicleTrigger on Vehicle__c (before insert, before update) {  
    if (Trigger.isBefore && Trigger.isInsert) {  
        // Logic for before insert  
    } else if (Trigger.isBefore && Trigger.isUpdate) {  
        // Logic for before update  
    }  
}
```