**GARAGE MANAGEMENT SYSTEM**

by

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**Project Overview**

The Salesforce Garage Management System (GMS) project is a comprehensive solution designed to enhance the operational efficiency and service quality of automotive service centers. Built on the Salesforce platform, this system integrates key functionalities such as customer relationship management (CRM), service scheduling, inventory management, invoicing, and real-time analytics, providing a seamless and automated workflow for garage operations.

The project began with an in-depth analysis of the existing processes in typical garage operations, identifying key pain points such as inefficient service scheduling, fragmented customer communication, and manual data entry errors. To address these challenges, the GMS was designed to centralize all essential operations on a single platform, allowing service centers to manage their day-to-day activities more effectively.

**Key features of the system include:**

* **Customer Relationship Management (CRM):** The GMS provides a 360-degree view of customer interactions, allowing for personalized communication, targeted marketing, and improved customer retention. Customers can schedule appointments, track the status of their vehicle repairs, and receive updates in real-time.
* **Service Scheduling and Management:** The system offers an intuitive interface for booking and managing service appointments. It ensures optimal resource allocation by matching available mechanics with service requests, reducing wait times and maximizing productivity.
* **Invoicing and Payments:** The system automates the generation of invoices based on completed services and parts used, integrating with various payment gateways for smooth and secure transactions.
* **Reporting and Analytics:** Advanced reporting tools provide insights into key performance indicators (KPIs), such as service turnaround time, customer satisfaction, and revenue trends. These analytics empower garage managers to make data-driven decisions to continuously improve operations.

**Project Objectives:**

The Salesforce GMS was designed with several key objectives in mind:

* **Enhance Operational Efficiency:** By automating routine tasks such as service scheduling, inventory management, and invoicing, the system reduces the manual workload for service center staff, allowing them to focus on delivering quality service.
* **Improve Customer Communication and Satisfaction:** The integrated CRM features provide a 360-degree view of customer interactions, enabling personalized communication and real-time updates on vehicle status. This fosters transparency and builds trust with customers.
* **Optimize Resource Allocation:** The system’s scheduling module ensures that mechanics and service bays are optimally utilized, reducing wait times and improving service turnaround times.
* **Ensure Data Accuracy and Integrity:** By centralizing data on a single platform, the GMS minimizes errors caused by manual data entry and ensures that accurate information is available to all stakeholders at all times.
* **Provide Actionable Insights:** Advanced reporting and analytics tools offer insights into key performance indicators (KPIs), such as service efficiency, customer satisfaction, and inventory levels. These insights enable data-driven decision-making, helping service centers continuously improve their operations.

The automotive industry is rapidly evolving, with customers demanding faster, more reliable, and personalized service experiences. In this competitive landscape, service centers must adopt innovative solutions to manage their operations efficiently while maintaining high standards of customer satisfaction. The Salesforce Garage Management System (GMS) project was conceived to address these needs by providing a comprehensive, cloud-based solution that streamlines the operations of automotive service centers.

**Project Background:**

* Traditional garage management systems often rely on disparate tools and manual processes, leading to inefficiencies, errors, and a lack of transparency. Service centers frequently face challenges such as miscommunication with customers, delays in service due to inadequate scheduling, and inventory shortages that can disrupt repair work. These issues not only reduce operational efficiency but also negatively impact customer satisfaction and loyalty.
* Recognizing these challenges, our team embarked on the development of a Salesforce-based Garage Management System. The primary objective was to create an integrated platform that could centralize all critical aspects of garage management, from customer relationship management (CRM) and service scheduling to inventory control and invoicing. Salesforce was chosen as the platform due to its robust customization capabilities, scalability, and ability to deliver real-time analytics, making it an ideal choice for modern service centers.

**Conclusion**:

* The Salesforce Garage Management System represents a significant advancement in the management of automotive service centers. By leveraging the power of Salesforce, the system not only addresses existing inefficiencies but also sets the stage for future growth and innovation in the industry. The successful implementation of this project highlights the potential of cloud- based solutions to transform traditional business operations, making them more efficient, customer-centric, and data-driven.

**Phase 1: Requirement Analysis & Planning**

**Understanding Business Requirements:**

* Stakeholders needed a platform to manage customer details, track activities, schedule appointments, and automate approvals.
* Issues included disorganized customer data, delays in lead follow-up, and lack of centralized reports.

**Defining Project Scope and Objectives:**

* CRM should handle: Lead management, Service request handling, Employee task allocation, Reporting and analytics.

**Design: Data Model & Security Model:**

* Custom Objects: Booking\_\_ c, Feedback\_\_ c, Service\_ Request\_\_ c
* Security: Role Hierarchy, Field-level security, Profile-based access control

**Phase 2: Salesforce Development – Backend & Configurations**

# **Task 1 (Object Creation)**

###### **Customer Details Object**:

**Purpose**: This object stores all relevant information about customers, including their personal details, contact information, and vehicle details. It serves as the central repository for managing customer interactions and maintaining a comprehensive service history.

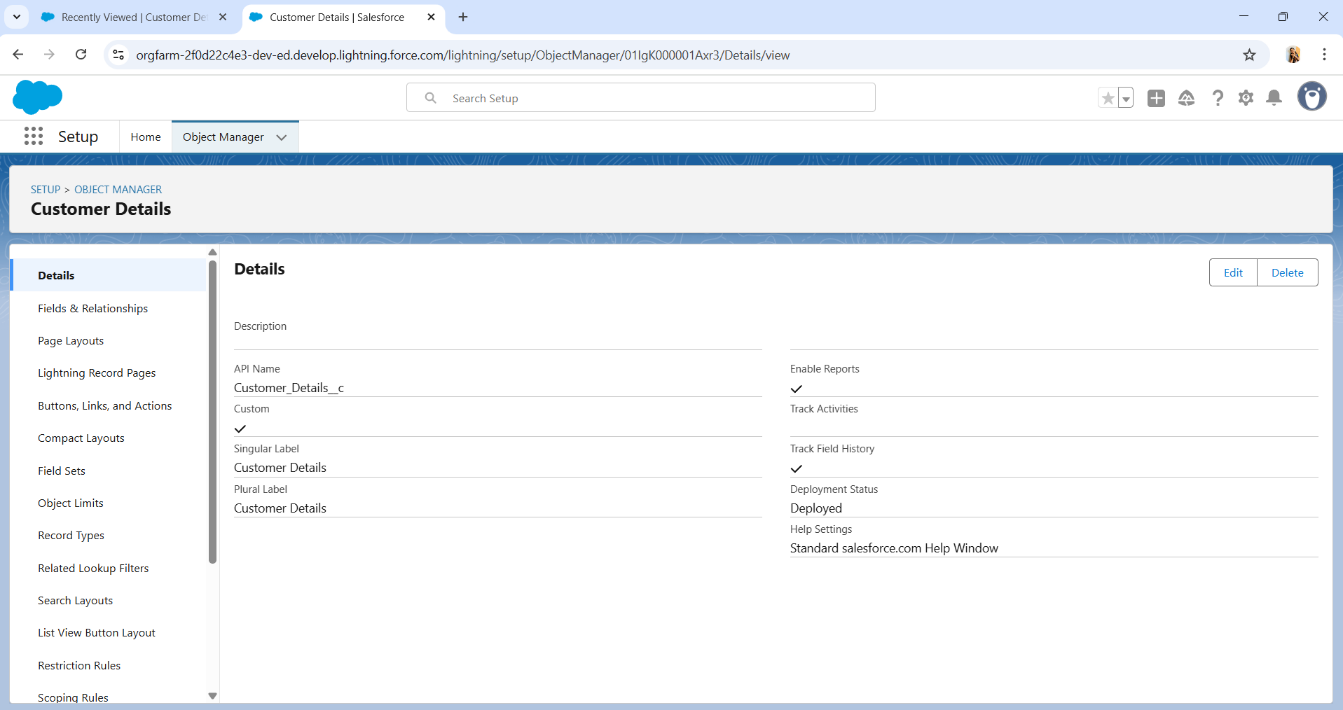
#### **To create an object:**

1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
2. Enter the label name >> Customer Details
3. Plural label name >> Customer Details
4. Enter Record Name Label and Format.

Record Name >> Customer Name

Data Type >> Text

1. Click on Allow reports and Track Field History,
2. Allow search >> Save.

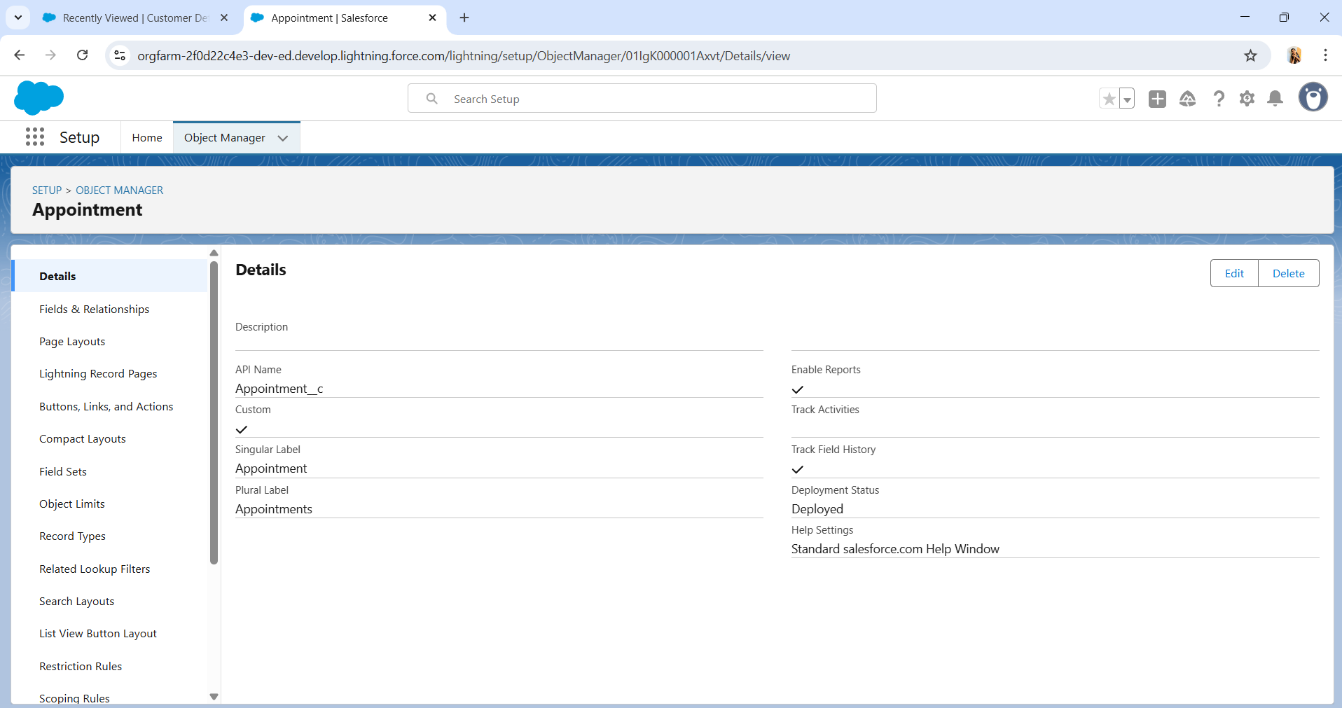


###### **Appointment Object:**

**Purpose**: This object is designed to manage and track service appointments. It allows service centers to schedule, update, and monitor appointments efficiently, ensuring that the right resources are allocated at the right time.

#### **To create an object:**

* 1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  2. Enter the label name >> Appointment
  3. Plural label name >> Appointments
  4. Enter Record Name Label and Format.
     + Record Name >> Appointment Name
     + Data Type >> Auto Number
     + Display Format >> app - {000}
     + Starting number >> 1
  5. Click on Allow reports and Track Field History,
  6. Allow search >> Save.

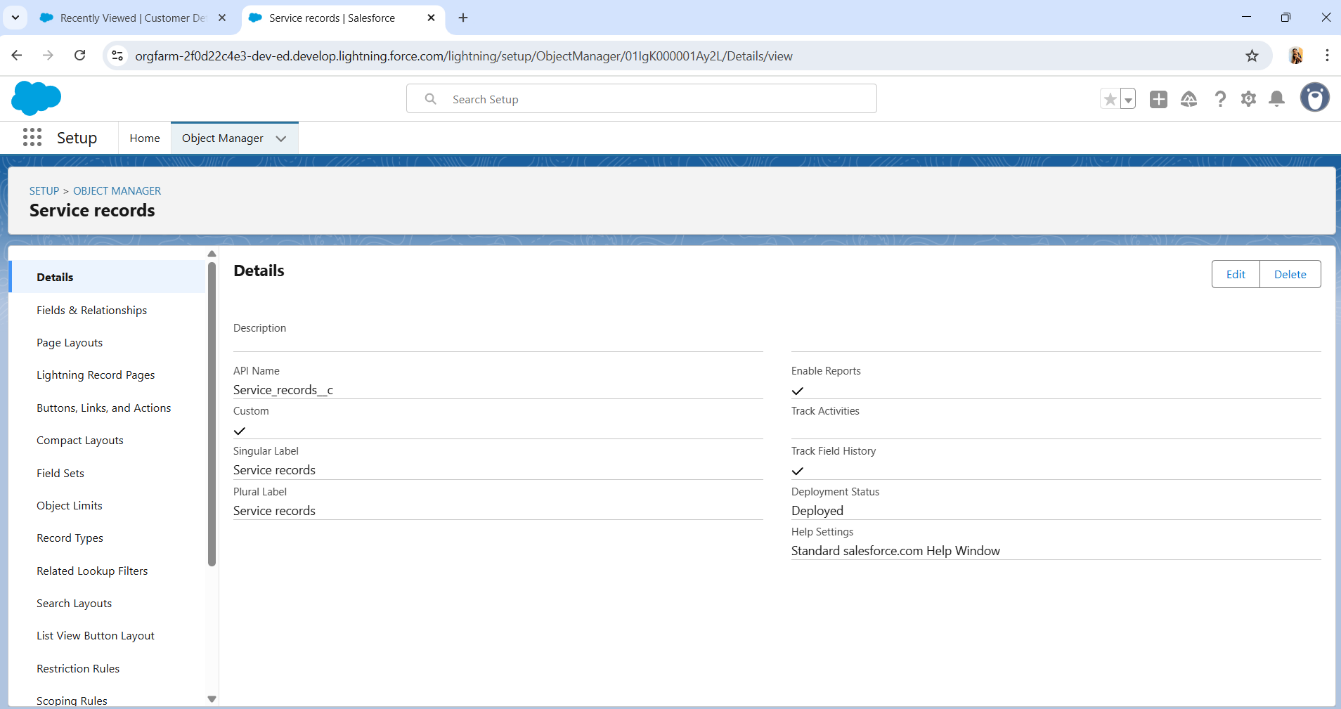


###### **Service Records Object:**

**Purpose**: The Service Records object keeps a detailed account of all services performed on a vehicle. It logs each service activity, parts used, and any additional notes, creating a complete service history for each vehicle.

#### **To create an object:**

* 1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  2. Enter the label name >> Service record
  3. Plural label name >> Service records
  4. Enter Record Name Label and Format.
     + Record Name >> Service records Name
     + Data Type >> Auto Number
     + Display Format >> ser-{000}
     + Starting number >> 1
  5. Click on Allow reports and Track Field History,
  6. Allow search >> Save.

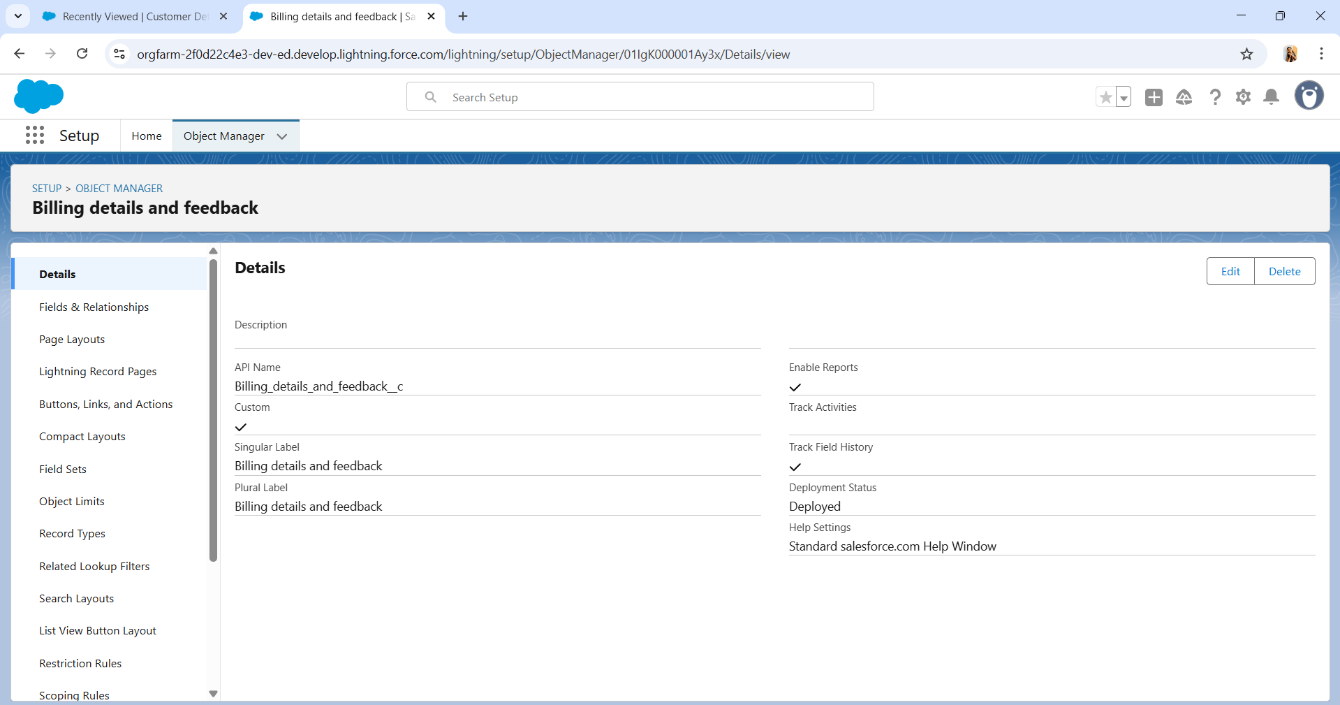


###### **Billing Details and Feedback Object:**

**Purpose**: This object manages billing and customer feedback. It captures all financial transactions related to services, including invoices and payments, and also collects customer feedback to assess satisfaction and identify areas for improvement.

#### **To create an object:**

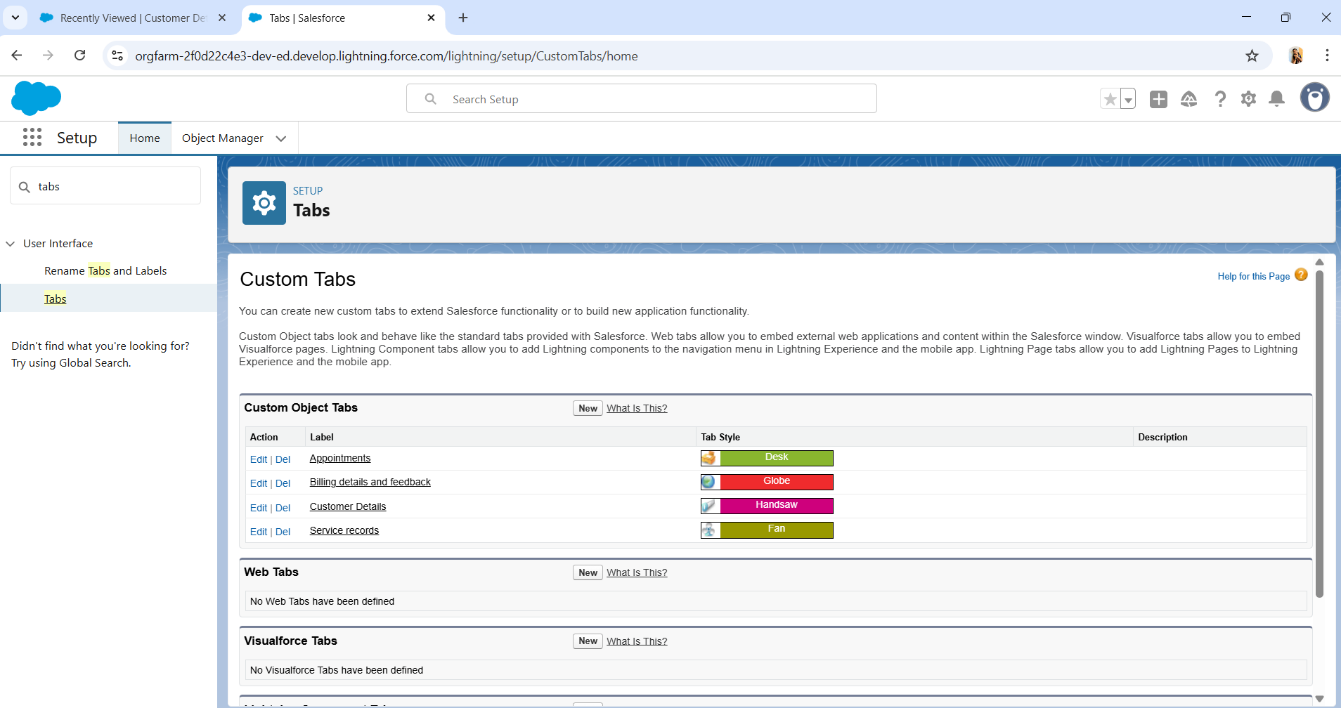
* 1. From the setup page >> Click on Object Manager >> Click on Create >> Click on Custom Object.
  2. Enter the label name >> Billing details and feedback
  3. Plural label name >> Billing details and feedbacks
  4. Enter Record Name Label and Format.
     + Record Name >> Billing details and feedback Name
     + Data Type >> Auto Number
     + Display Format >> bill-{000}
     + Starting number >> 1
  5. Click on Allow reports and Track Field History,
  6. Allow search >> Save.



# **Task 2 (Tabs Creation)**

#### **Creating A Custom Tab**

1. **To create a Tab:(Customer Details)**
   1. Go to setup page >> type Tabs in Quick Find bar >> click on tabs >> New (under custom object tab)
   2. Select Object (Customer Details) >> Select the tab style >> Next (Add to profiles page) keep it as default >> Next (Add to Custom App) uncheck the include tab.
   3. Make sure that the Append tab to users' existing personal customizations is checked.
   4. Click save.
2. **Creating Remaining Tabs**
   1. Now create the Tabs for the remaining Objects, they are “Appointments, Service records, Billing details and feedback”.
   2. Follow the same steps as mentioned in Activity - 1.



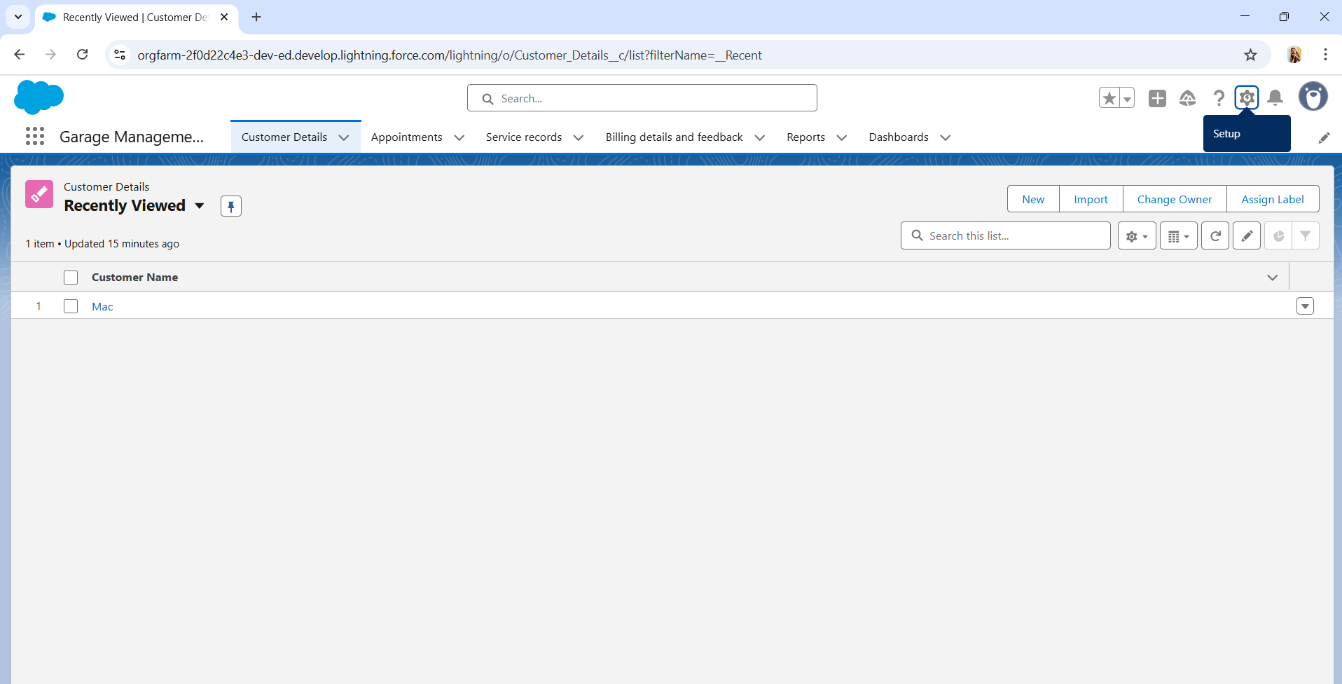
# **Task 3 (The Lightning App Creation)**

**Create A Lightning App**

1. Go to setup page >> search “app manager” in quick find >> select “app manager” >> click on New lightning App.
2. 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. To Add Navigation Items:

1. Select the items (Customer Details, Appointments, Service records, Billing details and feedback, Reports and Dashboards) from the search bar and move it using the arrow button >> Next.
2. To Add User Profiles: Search profiles (System administrator) in the search bar >> click on the arrow button >> save & finish.



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# **Task 4 (Fields Creation)**

#### **Creation Of Fields for The Customer Details Object**

###### **To create fields in Customer object:**

* 1. Go to setup >> click on Object Manager >> type object name (Customer Details) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New
  3. Select Data Type as a “Phone”
  4. Click on next.
  5. Fill the details as Following:

Field Label: Phone number

Field Name : gets auto generated

Click on Next >> Next >> Save

###### **To create another field in an object:**

* 1. Go to setup >> click on Object Manager >> type object name(Customer Details) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New
  3. Select Data type as a “Email” and Click on Next
  4. Fill the details as following:

Field Label : Gmail

Field Name : gets auto generated

Click on Next >> Next >> Save and new.

#### **Creation Of Lookup Fields**

###### **Creation of Lookup Field on Appointment Object:**

* 1. Go to setup >> click on Object Manager >> type object name (Appointment) in the search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New
  3. Select “Look-up relationship” as data type and click Next
  4. Select the related object “Customer Details” and click next.
  5. Next >> Next >> Save.

###### **Creation of Lookup Field on Service records Object:**

* 1. Go to setup >> click on Object Manager >> type object name (Service records) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New
  3. Select “Look-up relationship” as data type and click Next.
  4. Select the related object “Appointment” and click next.
  5. Make it a required field so click on Required.
  6. Scroll down for Lookup Filter and click on Show filter settings.
  7. Now add the filter criteria.
  8. Field: Appointment: Appointment Date >> Operator: less than >> select field >> Appointment: Created Date (Create Appointment Date field in Appointment object).
  9. Filter type should be Required.
  10. Error Message: Value does not match the criteria.
  11. Enable the filter by click on Active.

12.Next >> Next >> Save.

#### **Creation of Lookup Field on Billing details and feedback Object:**

* 1. Go to setup >> click on Object Manager >> type object name (Billing details and feedback) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New.
  3. Select “Look-up relationship” as data type and click Next.
  4. Select the related object “Service records” and click next.
  5. Next >> Next >> Save & new.

#### **Creation Of Checkbox Fields**

###### **Creation of Checkbox Field on Appointment Object :**

* 1. Go to setup >> click on Object Manager >> type object name (Appointment) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New.
  3. Select “Check box” as data type and click Next.
  4. Give the Field Label: Maintenance service
  5. Field Name: is auto populated
  6. Default value: unchecked
  7. Click on next >> next >> save.

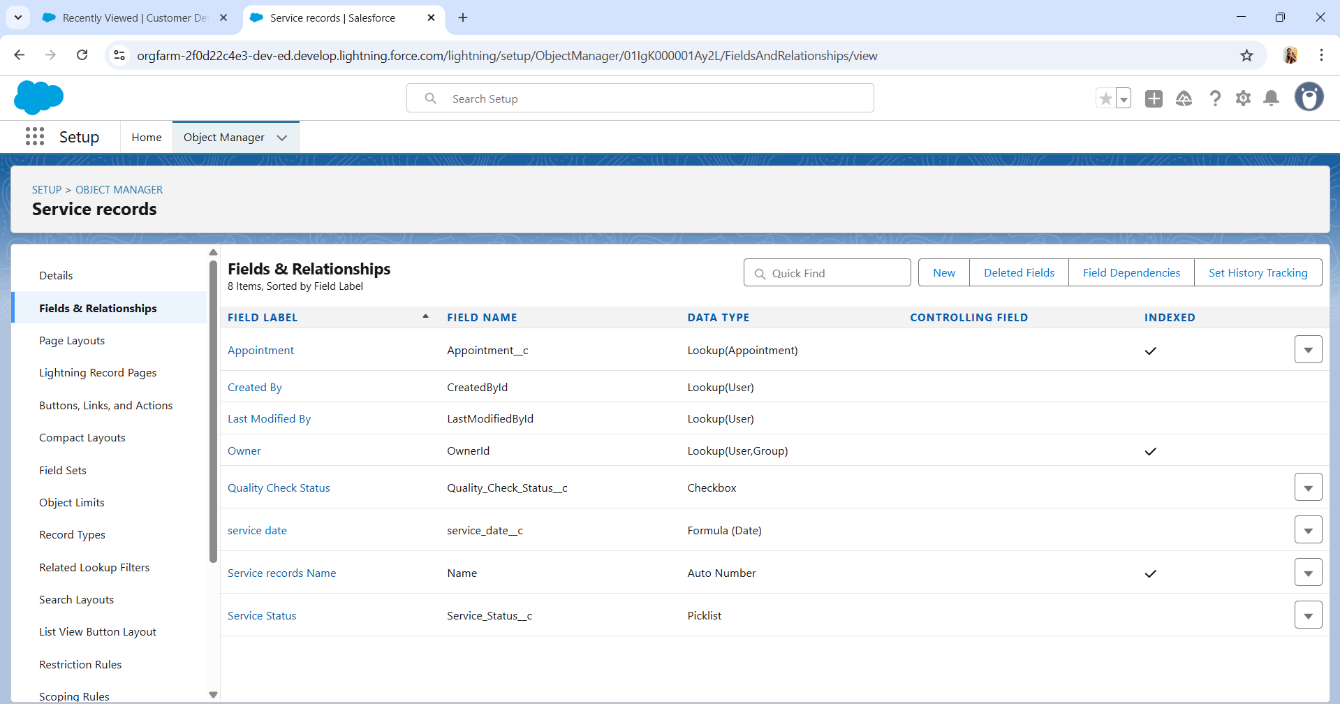
###### **Creation of Another Checkbox Field on Appointment Object:**

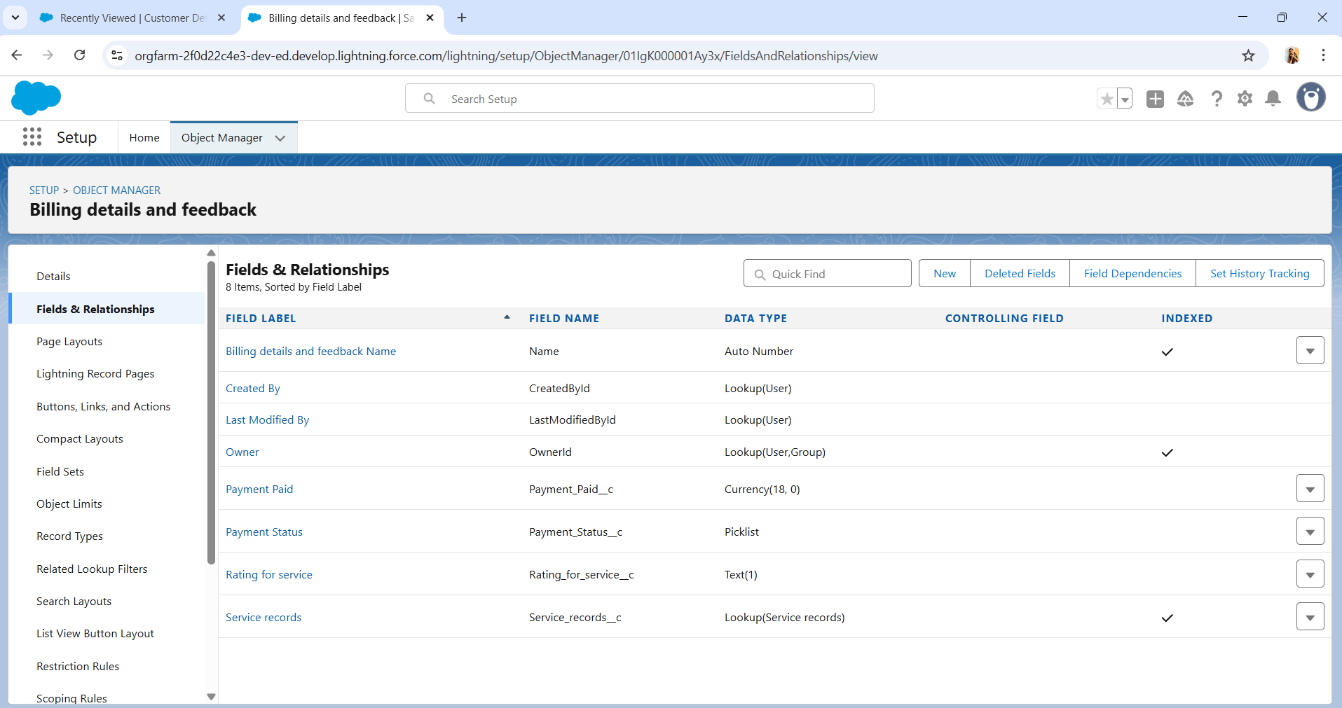
* 1. Repeat the steps from 1 to 3.
  2. Give the Field Label: Repairs
  3. Field Name: is auto populated
  4. Default value: unchecked
  5. Click on next >> next >> save.
  6. Follow the same and create another checkbox with given names
  7. Give the Field Label: Replacement Parts
  8. Field Name: is auto populated
  9. Default value: unchecked
  10. Click on next >> next >> save.

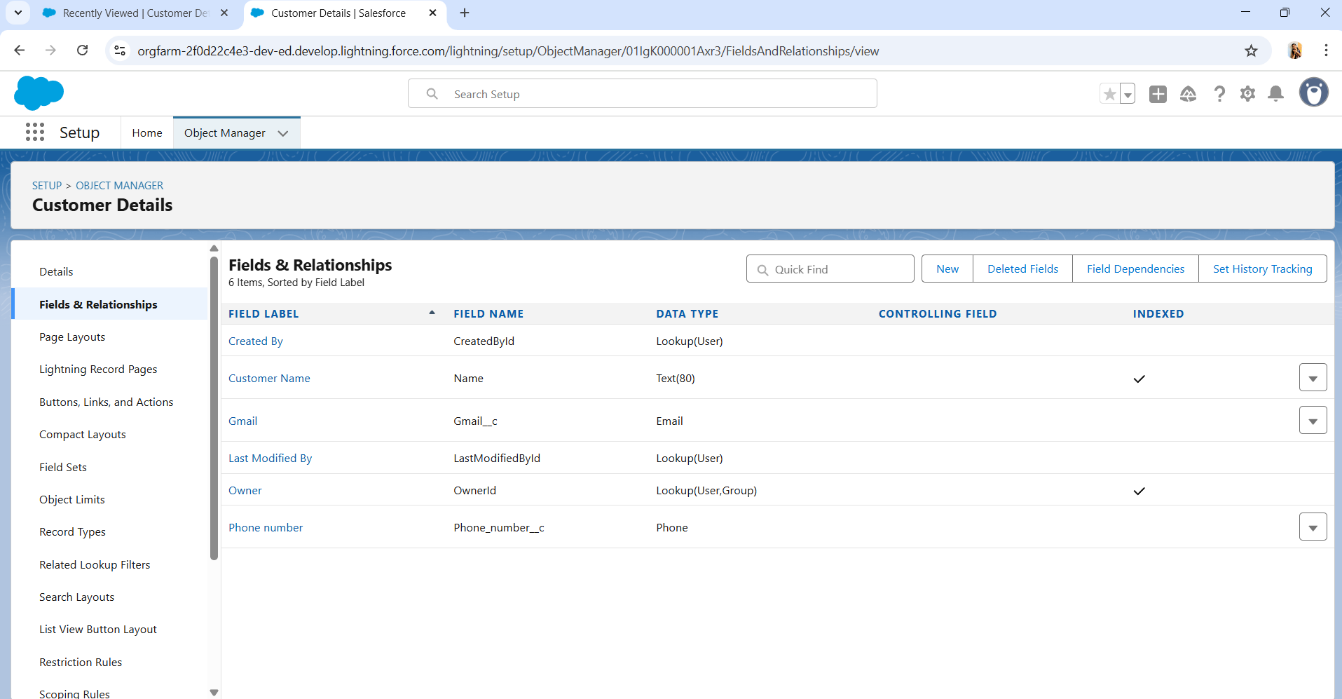
###### **Creation of Checkbox Field on Service records Object:**

* 1. Go to setup >> click on Object Manager >> type object name (Service records) in search bar >> click on the object.
  2. Now click on “Fields & Relationships” >> New.
  3. Select “Check box” as data type and click Next.
  4. Give the Field Label: Quality Check Status
  5. Field Name: is auto populated
  6. Default value: unchecked
  7. Click on next >> next >> save.

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# **Task 5 (Validation Rule Creation)**

###### **To Create a Validation Rule to an Appointment Object**

* 1. Go to the setup page >> click on object manager >> From drop down click edit for Appointment object.
  2. Click on the validation rule >> click New.
  3. Enter the Rule name as “Vehicle”.
  4. Insert the Error Condition Formula as: -

NOT (REGEX (Vehicle\_ number\_ plate c, “[A-Z]{2} [0-9]{2} [A-Z]{2} [0-9]{4}"))

* 1. Enter the Error Message as “Please enter valid number”, select the Error location as Field and select the field as “Vehicle number plate”, and click Save.

###### **To Create a Validation Rule To an Service Records Object**

* 1. Go to the setup page >> click on object manager >> From drop down click edit for Service records object.
  2. Click on the validation rule >> click New.
  3. Enter the Rule name as “service\_ status \_ note”.
  4. Insert the Error Condition Formula as: -

NOT (ISPICKVAL (Service \_ Status c, "Completed"))

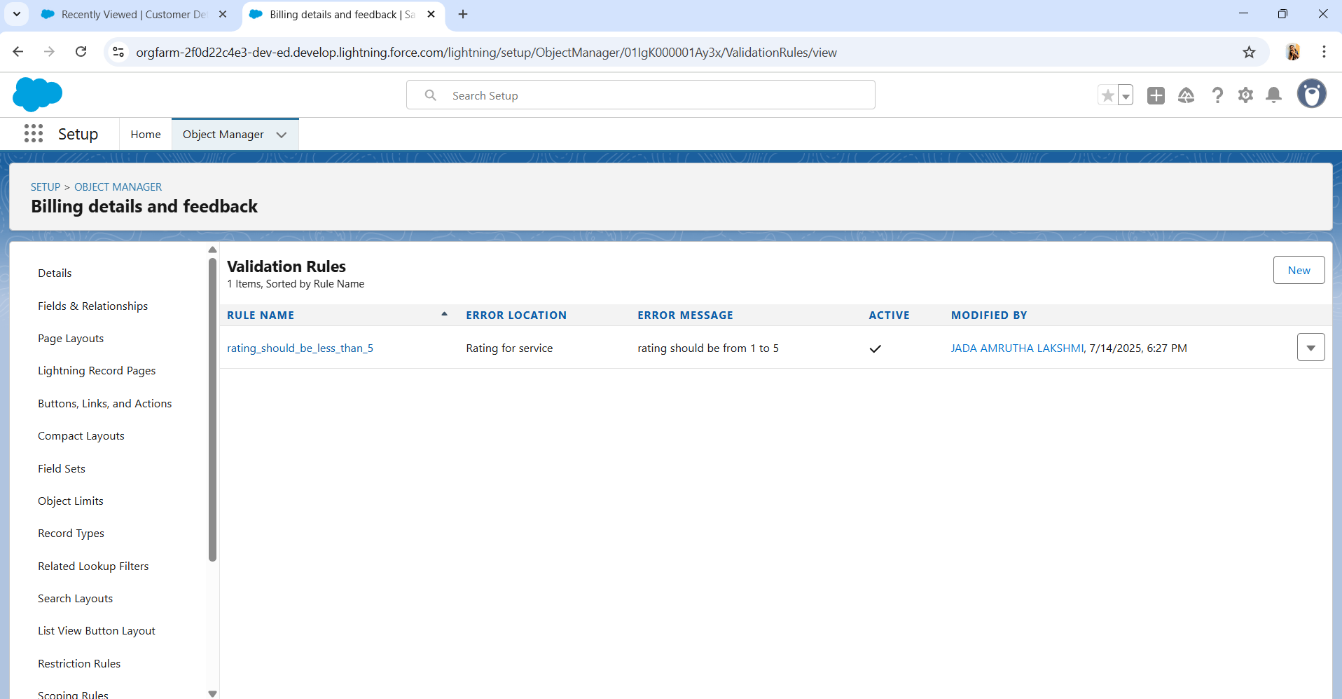
* 1. Enter the Error Message as “still it is pending”, select the Error location as Field and select the field as “Service status”, and click Save.

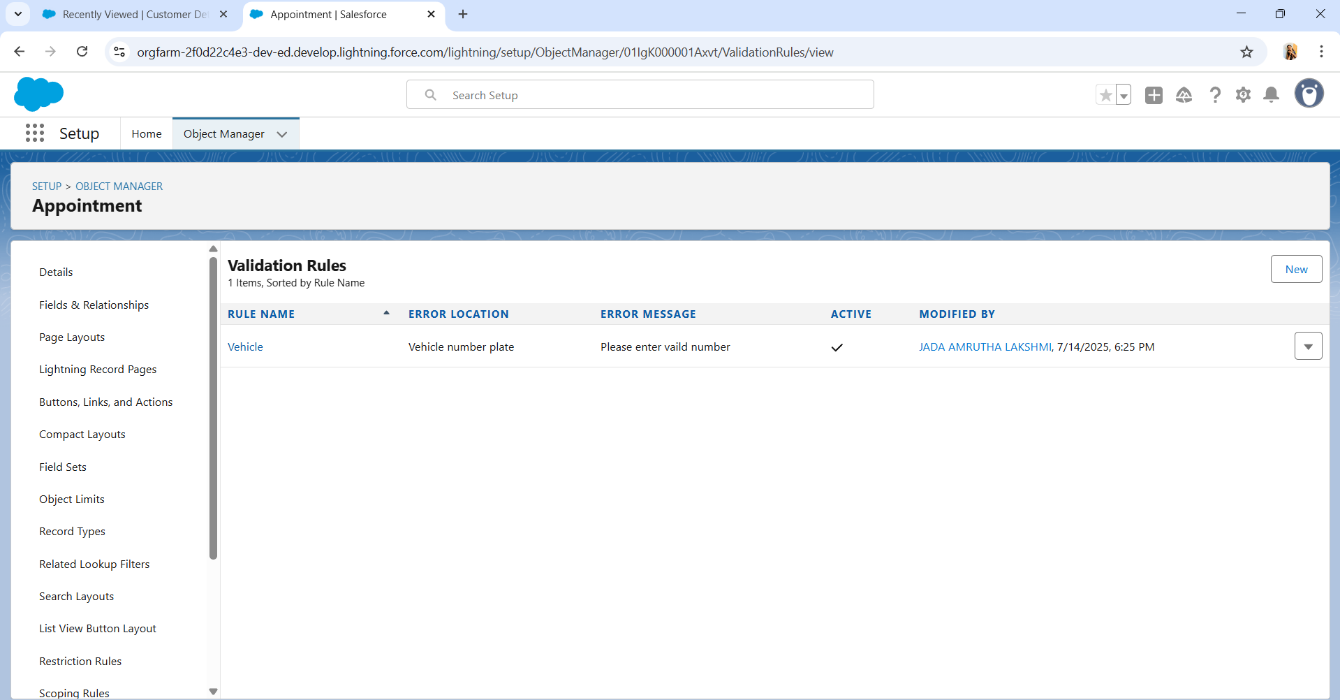
###### **To Create a Validation Rule To an Billing Details and Feedback Object**

* 1. Go to the setup page >> click on object manager >> From drop down click edit for Billing details and feedback object.
  2. Click on the validation rule >> click New.
  3. Enter the Rule name as “rating\_should\_be\_less\_than\_5”.
  4. Insert the Error Condition Formula as: -

NOT (REGEX (Rating\_ for\_ service c, "[1-5]{1}"))

* 1. Enter the Error Message as “rating should be from 1 to 5”, select the Error location as Field and select the field as “Rating for Service”, and click Save.





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# **Task 6 (Duplicate Rule Creation)**

###### **To Create a Matching Rule To an Customer Details Object**

* 1. Go to quick find box in setup and search for matching Rule.
  2. Click on matching rule >> click on New Rule.
  3. Select the object as Customer details and click Next.
  4. Give the Rule name: Matching customer details
  5. Unique name: is auto populated
  6. Define the matching criteria as
  7. Field Matching Method
     1. Gmail Exact
     2. Phone Number Exact
  8. Click save.
  9. After Saving Click on Activate.

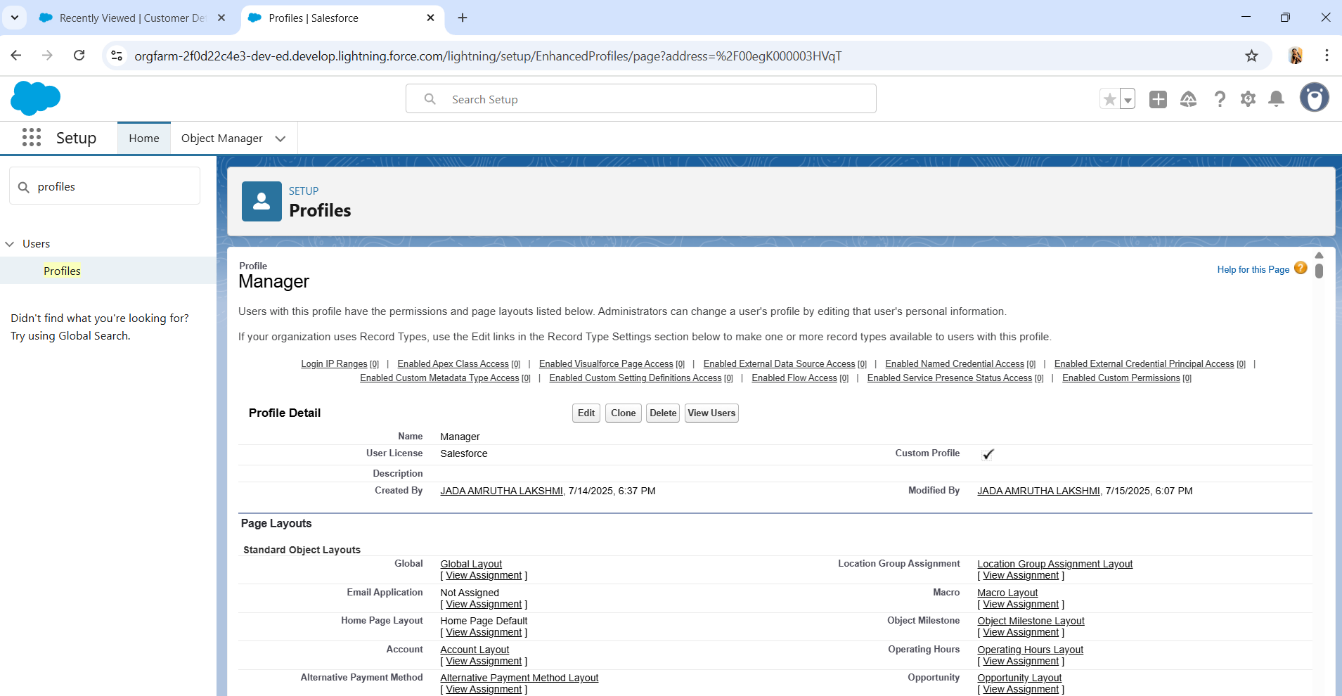
1. **To Create a Duplicate Rule To an Customer Details Object**
   1. Go to quick find box in setup and search for Duplicate rules.
   2. Click on Duplicate rule >> click on New Rule >> select customer details object.
   3. Give the Rule name as: Customer Detail duplicate
   4. Scroll a little in Matching rule section
   5. Select the matching rule: Matching customer details
   6. And click on save.
   7. After saving the Duplicate Rule, Click on Activate.

# **Task 7 (Profiles Creation)**

#### **Manager Profile**

###### **To create a new profile:**

* 1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Standard User) >> enter profile name (Manager) >> Save.
  2. While still on the profile page, then click Edit.
  3. Select the Custom App settings as default for the Garage management.
  4. Scroll down to Custom Object Permissions and Give access permissions for Appointments, Billing details and feedback, service records and customer details objects as mentioned in the below diagram.
  5. Changing the session times out after should be “8 hours of inactivity”.
  6. Change the password policies as mentioned:
  7. User passwords expire in should be “never expires”.
  8. Minimum password length should be “8”, and click save.

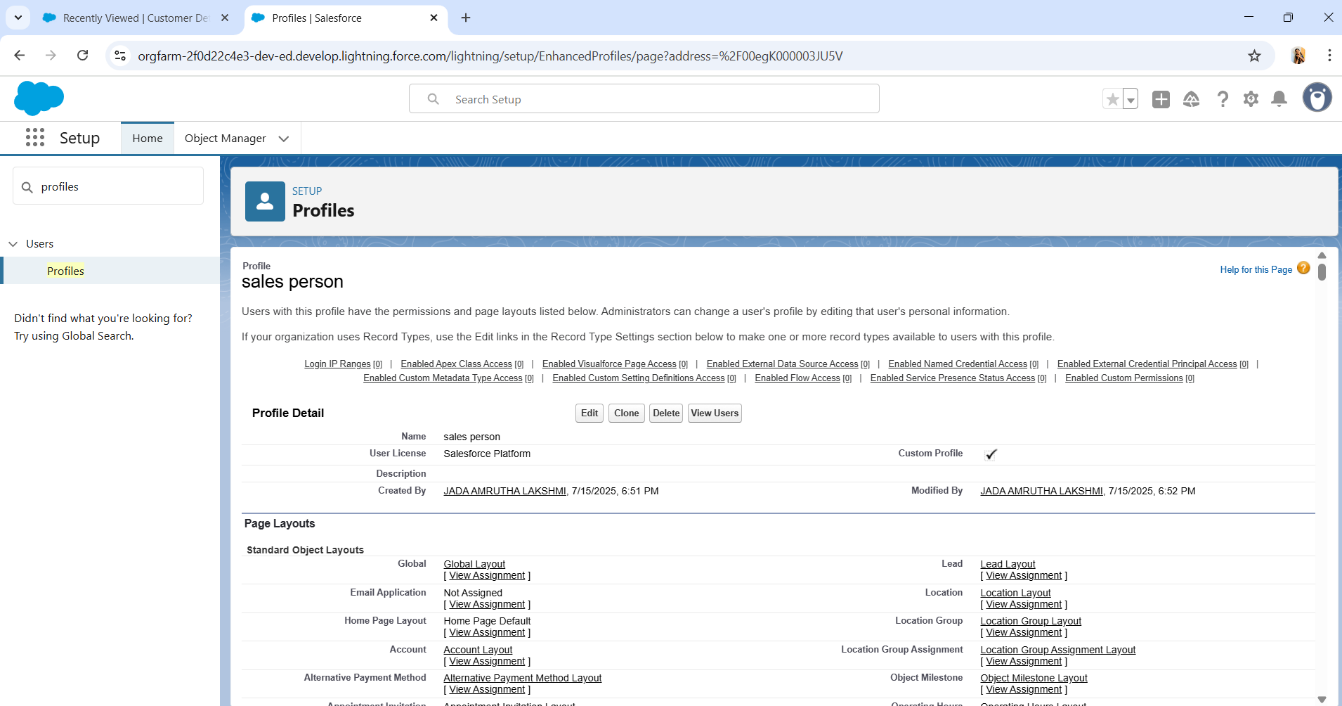


###### **2**.**Sales Person Profile:**

* 1. Go to setup >> type profiles in quick find box >> click on profiles >> clone the desired profile (Salesforce Platform User) >> enter profile name (sales person) >> Save.
  2. While still on the profile page, then click Edit.
  3. Select the Custom App settings as default for the Garage management.
  4. Scroll down to Custom Object Permissions and Give access permissions for Appointments, Billing details and feedback

, service records and customer details objects as mentioned in the below diagram.

* 1. And click save.



# **Task 8 (Role & Role Hierarchy Creation)**

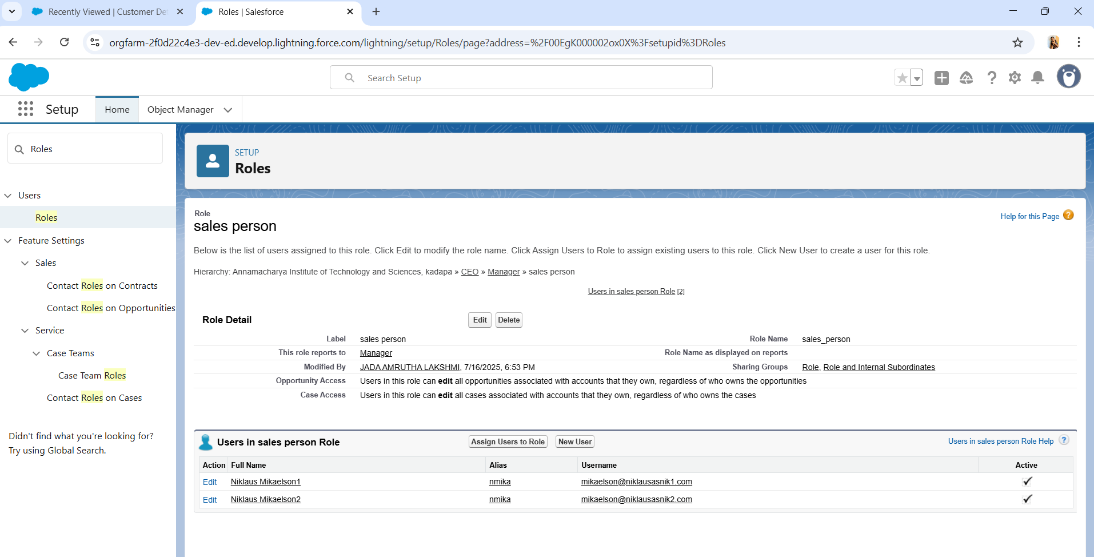
#### **Creating Manager Role**

* 1. Go to quick find >> Search for Roles >> click on set up roles.
  2. Click on Expand All and click on add role under whom this role works.
  3. Give Label as “Manager” and Role name gets auto populated. Then click on Save.

###### 

###### **2.Creating Sales Person Roles**

* 1. Go to quick find >> Search for Roles >> click on set up roles.
  2. Click plus on CEO role, and click add role under manager.
  3. Give Label as “sales person” and Role name gets auto populated. Then click on Save.



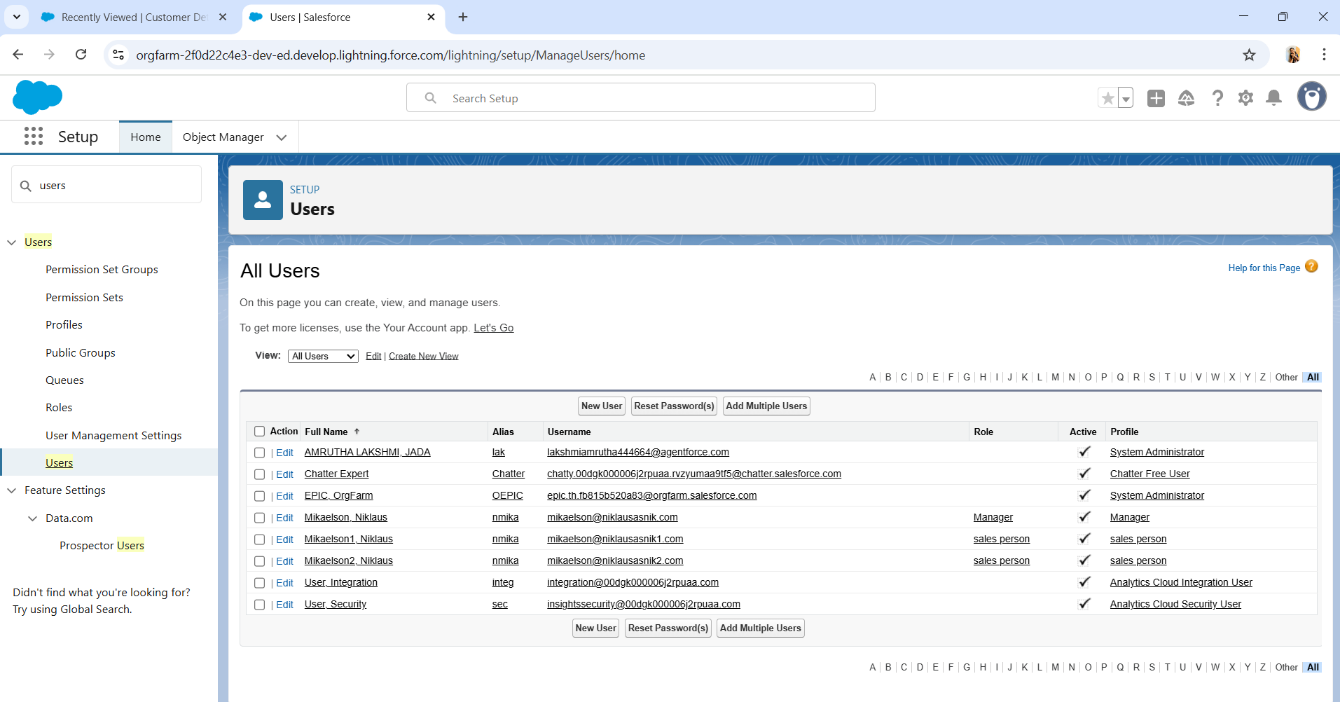
# **Task 9 (Users Creation)**

#### **1.Create User(Manager Role):**

* 1. Go to setup >> type users in quick find box >> select users >> click New user.
  2. Fill in the fields
  3. First Name: Niklaus
  4. Last Name: Mikaelson
  5. Alias: Give a Alias Name
  6. Email id: Give your Personal Email id
  7. Username: Username should be in this form: [text@text.text](mailto:text@text.text)
  8. Nick Name: Give a Nickname
  9. Role: Manager
  10. User Licence: Salesforce
  11. Profiles: Manager ->Save.

#### **2.Creating Another Users (Sales Role):**

* 1. Repeat the steps and create another user using
     1. Role: sales person
     2. User Licence: Salesforce Platform
     3. Profile: sales person



# **Task 10 (Public Groups Creation)**

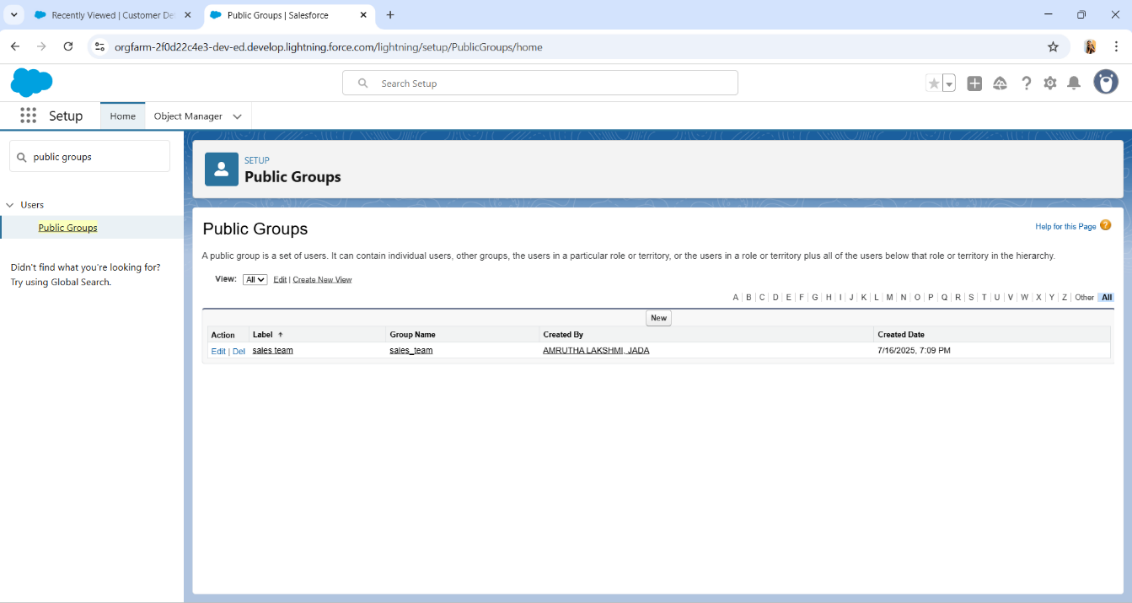
**Public Groups** in Salesforce are collections of users that can be defined for sharing rules, access permissions, or collaboration purposes. These groups can include individual users, roles, or other groups, making them versatile for managing access and data visibility across the organization.

#### **Purpose of Public Groups:**

1. **Access Control**: Public Groups allow administrators to define who has access to certain records or data. For example, you can use Public Groups to grant access to certain objects, records, or folders to a specific group of users.
2. **Sharing Rules**: Public Groups are often used in sharing rules to control data visibility. By assigning records to a Public Group, you can ensure that only members of the group have access to those records, without the need to individually configure permissions for each user.
3. **Collaboration**: Public Groups can be used to facilitate collaboration among users. For instance, a Public Group could be created for a specific department or project team, allowing members to easily share files, Chatter posts, and other resources.

#### **Creating New Public Group**

1. Go to setup >> type users in quick find box >> select public groups >> click New.
2. Give the Label as “sales team”.
3. Group name is auto-populated.
4. Search for Roles.
5. In Available Members select Sales person and click on add it will be moved to selected member.
6. Click on save.



# **Task 11 (Sharing Setting Creation)**

**Sharing Settings** in Salesforce are configurations that determine the level of access users have to data across the organization. They control how records are shared among users and help define the default access level for each object in Salesforce. Sharing Settings are essential for balancing data security with collaboration needs.

#### **Creating Sharing Settings**

* Go to setup >> type users in quick find box >> select Sharing Settings >> click Edit.
* Change the OWD setting of the Service records Object to private as shown in fig.
* Click on save and refresh.
* Scroll down a bit, click new on Service records sharing Rules.
* Give the Label name as “Sharing setting”
* Rule name is auto populated.
* In step 3: Select which records to be shared, members of “Roles” >> “Sales person”
* In step 4: share with, select “Roles” >> “Manager”
* In step 5: Change the access level to “Read / write”.
* Click on save.

# **Task 12 (Flows Creation)**

**Flows in Salesforce** are a powerful tool for automating complex business processes through a visual interface. They allow administrators and developers to build custom workflows without needing to write code, making it easier to implement automation that meets specific business requirements.

#### **Create A Flow:**

Go to setup >> type Flow in quick find box >> Click on the Flow and Select the

1. New Flow.
2. Select the Record-triggered flow and Click on Create.
3. Select the Object as “Billing details and feedback” in the Dropdown list.
4. Select the Trigger Flow when: “A record is Created or Updated”.
5. Select the Optimize the flow for: “Actions and Related Records” and Click on Done.
6. Under the Record-triggered Flow Click on “+” Symbol and In the Dropdown List select the “Update records Element”.
7. Give the Label Name: Amount Update
8. Api name: is auto populated
9. Set a filter condition: All Conditions are met (AND)
10. Field: Payment \_Status c
11. Operator: Equals
12. Value: Completed
13. And Set Field Values for the Billing details and feedback Record
14. Field: Payment \_Paid c
15. Value: {! $ Record. Service \_ records r. Appointment r. Service\_ Amount c}
16. Click On Done.
17. Before creating another Element. Create a New Resource form Toolbox form top left.
18. Click on the New Resource, and select Variable.
19. Select the resource type as text template.
20. Enter the API name as “alert”.
21. Change the view as Rich Text? View to Plain Text.
22. In body field paste the syntax that given below.

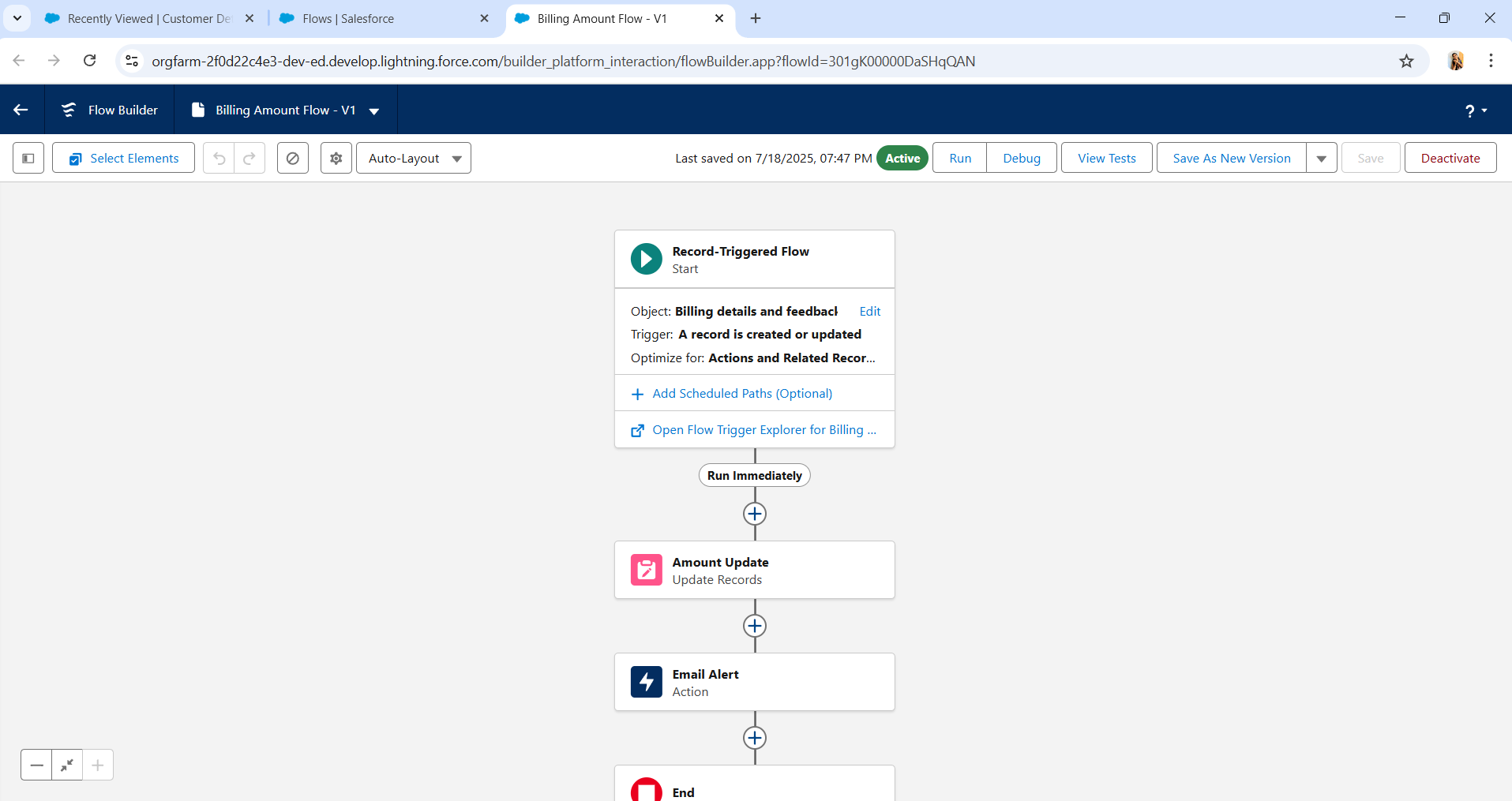
Dear {! $ Record. Service \_records r. Appointment r. Customer\_ Name r. Name},

I hope this message finds you well. I wanted to take a moment to express my sincere gratitude for your recent payment for the services provided by our garage management team. Your prompt payment is greatly appreciated, and it helps us continue to provide top-notch services to you and all our valued customers.

Amount paid:

{! $ Record. Payment \_Paid c} Thank you for Coming.

1. Click done.
2. Now Click on Add Element, select Action.
3. Their action bar will be opened in that search for “send email” and click on it.
4. Give the label name as “Email Alert”
5. API name will be auto populated.
6. Enable the body in set input values for the selected action.
7. Select the text template that created, Body: {! alert}
8. Include recipient address list select the email form the record.
9. Recipient Address List: {! $ Record. Service\_ records r. Appointment r. Customer\_ Name r. Gmail c}
10. Include subject as “Thank You for Your Payment - Garage Management”.
11. Click done.
12. Click on save. Give the Flow label, Flow Api name will be auto-populated.
13. And click save, and click on activate.



# **Task 13 (Apex Trigger Creation)**

**Apex Triggers** in Salesforce are pieces of code that run automatically in response to specific events on a particular Salesforce object. These events include actions like creating, updating, deleting, or undeleting records. Triggers are used to perform operations before or after these events, allowing developers to customize and automate business processes in ways that standard configurations and workflows can't achieve.

#### **Apex Handler**

Use Case: This use case works for Amount Distribution for each Service the customer selected for their Vehicle.

1. Login to the respective trailhead account and navigate to the gear icon in the top right corner.
2. Click on the Developer console. Now you will see a new console window.
3. In the toolbar, you can see FILE. Click on it and navigate to new and create New apex class.
4. Name the class as “AmountDistributionHandler”. Code:

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:

How to create a new trigger:

1. While still in the trailhead account, navigate to the gear icon in the top right corner.
2. Click on developer console and you will be navigated to a new console window.
3. Click on File menu in the tool bar, and click on new? Trigger.
4. Enter the trigger name and the object to be triggered.
5. Name: AmountDistribution
6. sObject: Appointment c

Syntax For creating trigger:

The syntax for creating trigger is:

Trigger [trigger name] on [object name]( Before/After event)

{

}

In this project, trigger is called whenever the particular records sum exced the threshold that is minimum business requirement value. Then the code in the trigger will get executed.

1. Handler for the Appointment Object Code:

trigger AmountDistribution on Appointment c (before insert, before update) {

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

}

}

# **Phase 3:UI/UX Development & Customization**

# **Task 14 (Reports Creation)**

#### **Reports**

Reports give you access to your Salesforce data. You can examine your Salesforce data in almost infinite combinations, display it in easy-to-understand formats, and share the resulting insights with others. Before building, reading, and sharing reports, review these reporting basics.

Types of Reports in Salesforce

1. Tabular
2. Summary
3. Matrix
4. Joined Reports

#### **Create A Report Folder**

1. Click on the app launcher and search for reports.
2. Click on the report tab, click on new folder.
3. Give the Folder label as “Garage Management Folder”, Folder unique name will be auto populated.
4. Click save.

#### **Sharing A Report Folder**

1. Go to the app >> click on the reports tab.
2. Click on the All folder , click on the Drop down arrow for Garage Management folder, and Click on share.
3. Select the share with as “roles”, in name field search for “manager”, give “view” as access for that role.
4. Then click share, and click on Done.

#### **Create Report Type**

1. Go to setup >> type users in quick find box >> select Report Type >> click on Continue.
2. Click on new custom report type.
3. Select the Primary object as “Customer details”.
4. Give the Report type Label as “Service information”
5. Report type Name is auto-populated.
6. Keep the Description as same.
7. Select Store in Category as “other Reports”
8. Select the deployment status as “Deployed”, click on Next.
9. now, Click on Related object box.
10. Click on Select Object, choose Appointment Object a
11. Again click to relate another object.
12. And select the related object as “service records”.
13. Repeat the process and select the related object as “Billing details and feedback”.
14. And click on save.

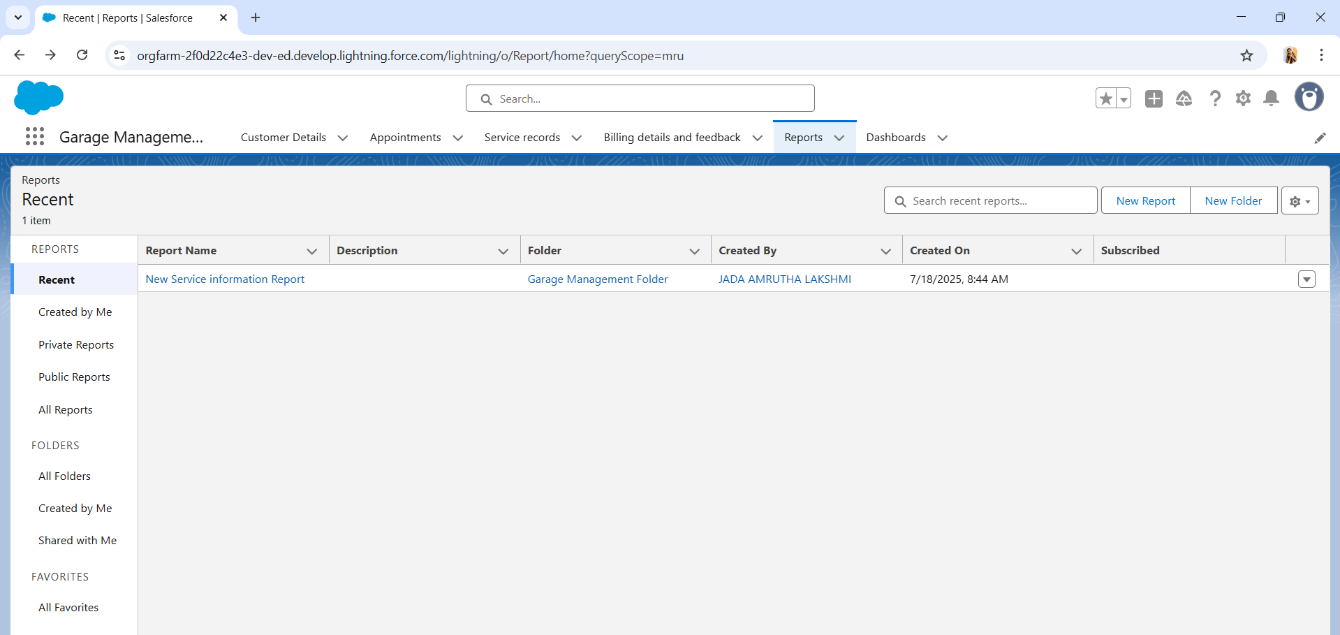
#### **Create Report**

Note: Before creating report, create latest “10” records in every object. Try to fill every field in each record for better experience.

1. Go to the app >> click on the reports tab
2. Click New Report.
3. Select the Category as other reports, search for Service Information, select that report, click on it. And click on start report.
4. Their outline pane is opened already, select the fields that mentioned below in column section.
   * Customer name
   * Appointment Date
   * Service Status
   * Payment paid
5. Remove the unnecessary fields.
6. Select the fields that mentioned below in GROUP ROWS section.

* Rating for Service

1. Select the fields that mentioned below in GROUP ROWS section.
   * Payment Status
2. Click on Add Chart, Select the Line Chart.
3. Click on save, Give the report Name: New Service information Report
4. Report unique Name is auto populated.
5. Select the folder the created and click on save



# **Task 15 (Dashboards Creation)**

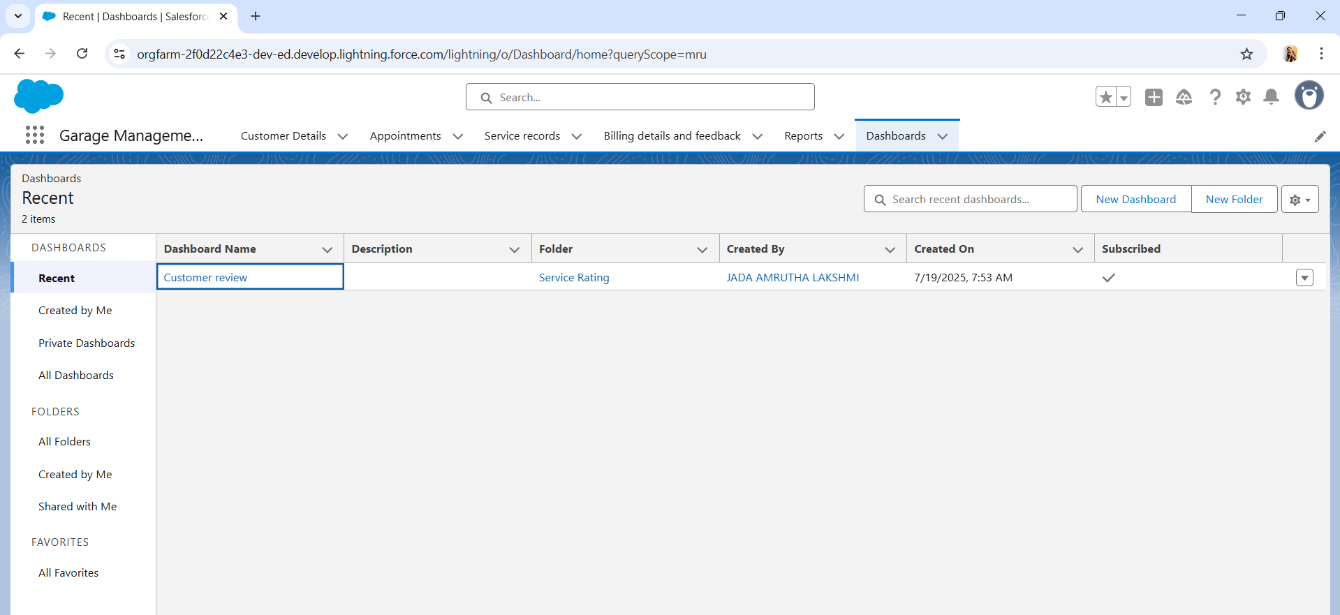
##### **Dashboards** help you visually understand changing business conditions so you can make decisions based on the real-time data you’ve gathered with reports. Use dashboards to help users identify trends, sort out quantities, and measure the impact of their activities. Before building, reading, and sharing dashboards, review these dashboard basics.

#### **Create Dashboard Folder**

1. Click on the app launcher and search for dashboard.
2. Click on dashboard tab.
3. Click new folder, give the folder label as “Service Rating dashboard”.
4. Folder unique name will be auto populated.
5. Click save.
6. Follow the same steps, form milestone 15, and activity 2, and provide the sharing settings for the folder that just created.

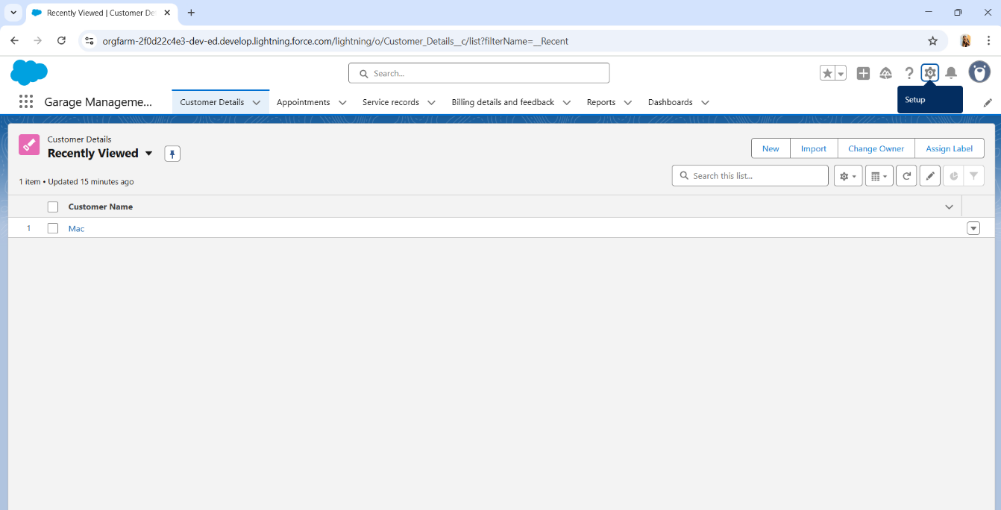
#### **Recreate Dashboard**

1. Go to the app >> click on the Dashboards tabs.
2. Give a Name and select the folder that created, and click on create.
3. Select add component.
4. Select a Report and click on select.
5. Select the Line Chart. Change the theme.
6. Click Add then click on Save and then click on Done.
7. Preview is shown below.
8. After that Click on Subscribe on top right.
9. Set the Frequency as “weekly”.
10. Set a day as Monday.
11. And click on save.



* **Lightning App created using App Manager:**

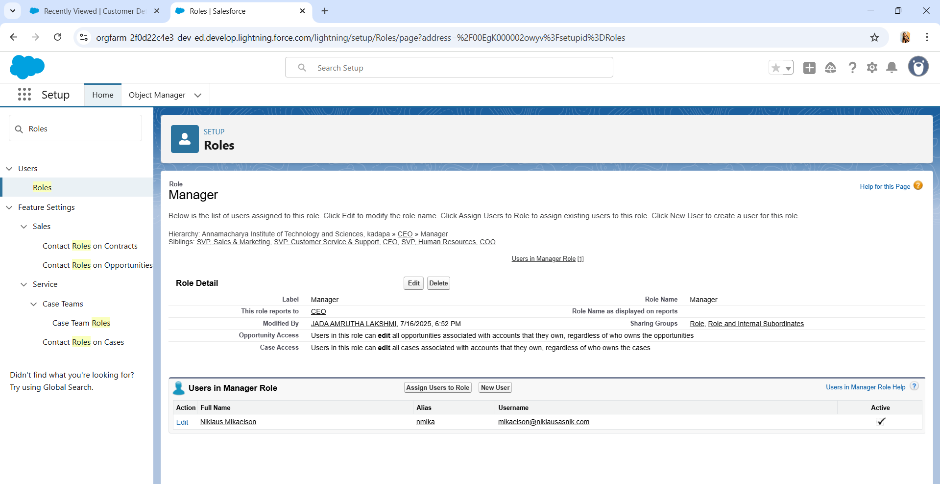
**Steps:** Navigate to Setup, search for "App Manager" in the Quick Find box, and select it. Then, click "New Lightning App" and follow the wizard.



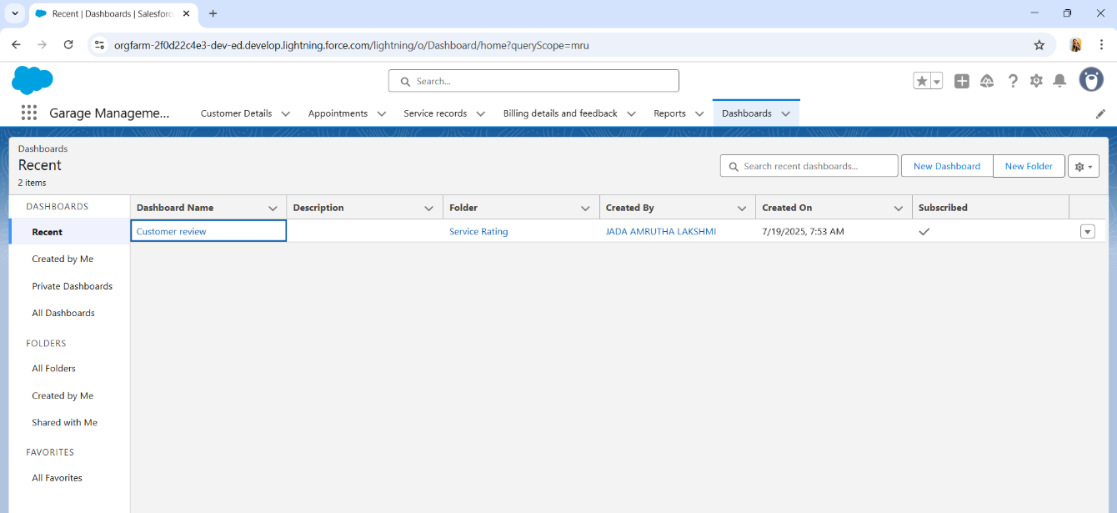
* **Dynamic forms, Lightning Pages, and tailored Page Layouts:**

Dynamic forms allow you to customize the layout and visibility of fields on a record page, while Lightning Pages provide a visual editor to build and customize these pages

* **Role-based page views:**



* **Dashboards for KPI and trends:**



**Phase 4: Data Migration, Testing & Security**

* + Data Import Wizard & Data Loader used.
  + Field History Tracking, Duplicate & Matching Rules configured.
  + Access Control via Profiles, Roles, Permission Sets, Sharing Rules.
  + Functional and Apex Test Classes with screenshots of results.

**Phase 5: Deployment, Documentation & Maintenance**

* + Deployment via Change Sets.
  + Weekly maintenance, error logs, and performance reviews.
  + Troubleshooting using debug logs and error logs.

**Conclusion**

This Salesforce CRM project has improved customer handling, booking management, and reporting. The solution is user-friendly, secure, and scalable.

**Future Enhancements:**

**1.AI Chatbot Integration**

* How it helps Salesforce:
* Automated Customer Support: AI chatbots can instantly answer customer queries in Salesforce’s Service Cloud, reducing response times and freeing up agents for complex cases.
* Lead Qualification: In Sales Cloud, chatbots can interact with website visitors, qualify leads, and log them as contacts/opportunities in real time.
* 24/7 Availability: Ensures continuous engagement without increasing staff workload.
* Data Capture: Bots can collect relevant customer information and feed it directly into Salesforce CRM records.
* Example: Integrating Einstein Bots (Salesforce’s native chatbot solution) improves service case deflection and lead capture efficiency.

**2. SMS Notifications**

* How it helps Salesforce:
* Real-Time Communication: SMS alerts can be used for appointment reminders, order confirmations, case updates, or payment alerts.
* Improved Engagement: SMS has a very high open rate (~98%), ensuring critical updates are noticed.
* Workflow Automation: SMS can be triggered automatically from Salesforce workflows, process builder, or Flow.
* Use Case Example: A support case is created—an automatic SMS is sent to the customer with the case number and expected resolution time.

**3. Voice Command Integration**

* How it helps Salesforce:
* Hands-Free CRM Updates: Sales reps can update Salesforce records using voice commands while driving or on the go.
* Faster Data Access: Voice queries can pull up customer info, reports, or tasks faster than typing, improving productivity.
* Accessibility: Aids users with disabilities or those who prefer speech over typing.
* Salesforce Tools Example: Integration with tools like Salesforce Mobile App + Siri or Google Assistant can allow natural language interaction with records and dashboards.

**4. Mobile App Expansion**

* How it helps Salesforce:
* On-the-Go Access: Sales teams can access CRM data anytime, anywhere—improving productivity and responsiveness.
* Offline Mode: Data can be captured offline and synced when back online—ideal for field service and remote teams.
* Push Notifications: Keeps users informed of updates, approvals, or tasks without needing email.
* Custom Mobile Experiences: With Salesforce Mobile SDK, tailored mobile apps can be built for specific departments or industries.
* Example: A field service agent uses a custom Salesforce mobile app to update work orders, get directions, and capture customer signatures.