GARAGE MANAGEMENT SYSTEM

SRI KRISHNA ADITHYA COLLEGE OF ARTS AND

SCIENCE

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# 1.INTRODUCTION

1.1 Project Overview

The Garage Management System is a valuable tool for automotive repair facilities, helping them deliver top-notch service, increase operational efficiency, and build lasting customer relationships. With its user-friendly interface and powerful features, GMS empowers garages to thrive in a competitive market while ensuring a seamless and satisfying experience for both customers and staff.

1.2 Purpose

The purpose of a Garage Management System is to streamline and automate the daily operations of a vehicle service center, including customer and vehicle management, service booking, inventory tracking, and billing. It helps improve efficiency, reduce manual errors, and maintain accurate service and payment records.

# DEVELOPMENT PHASE

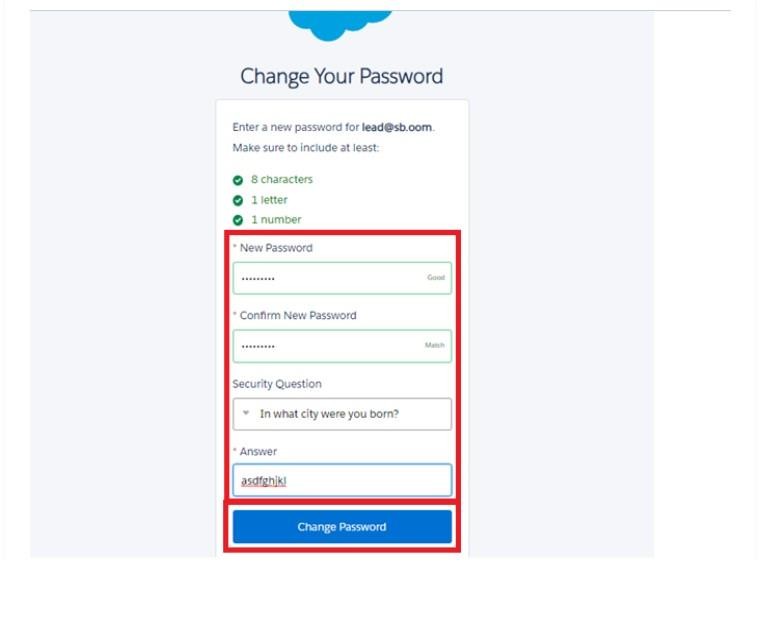
Creating Developer account

By using this

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

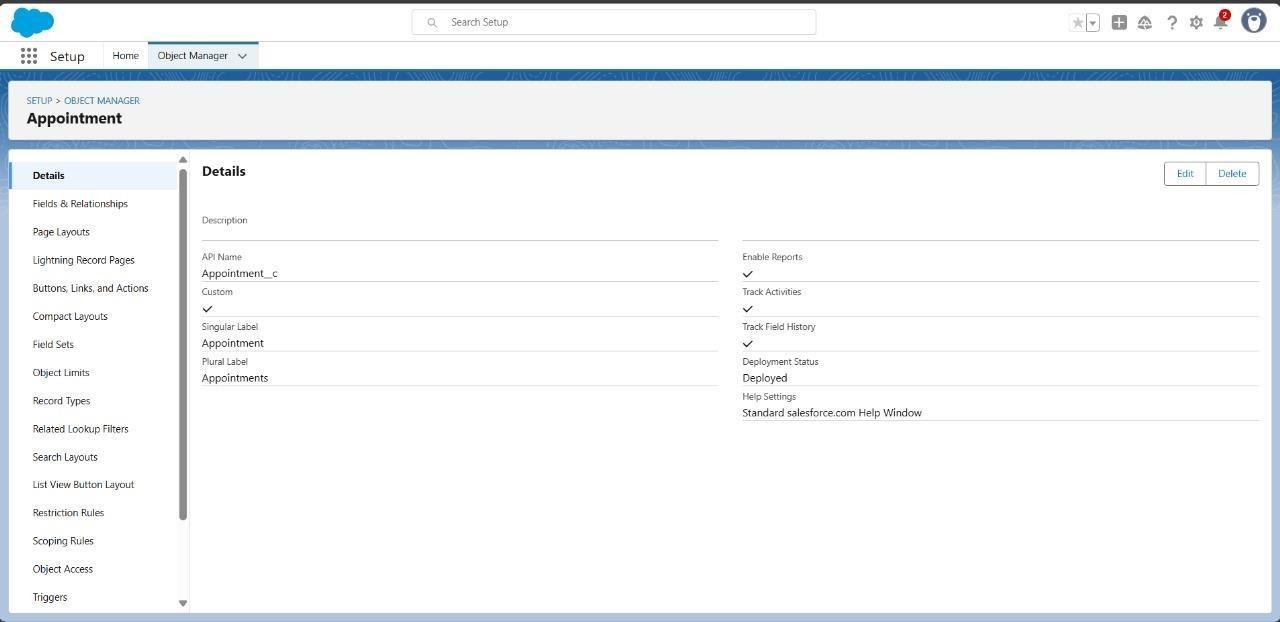
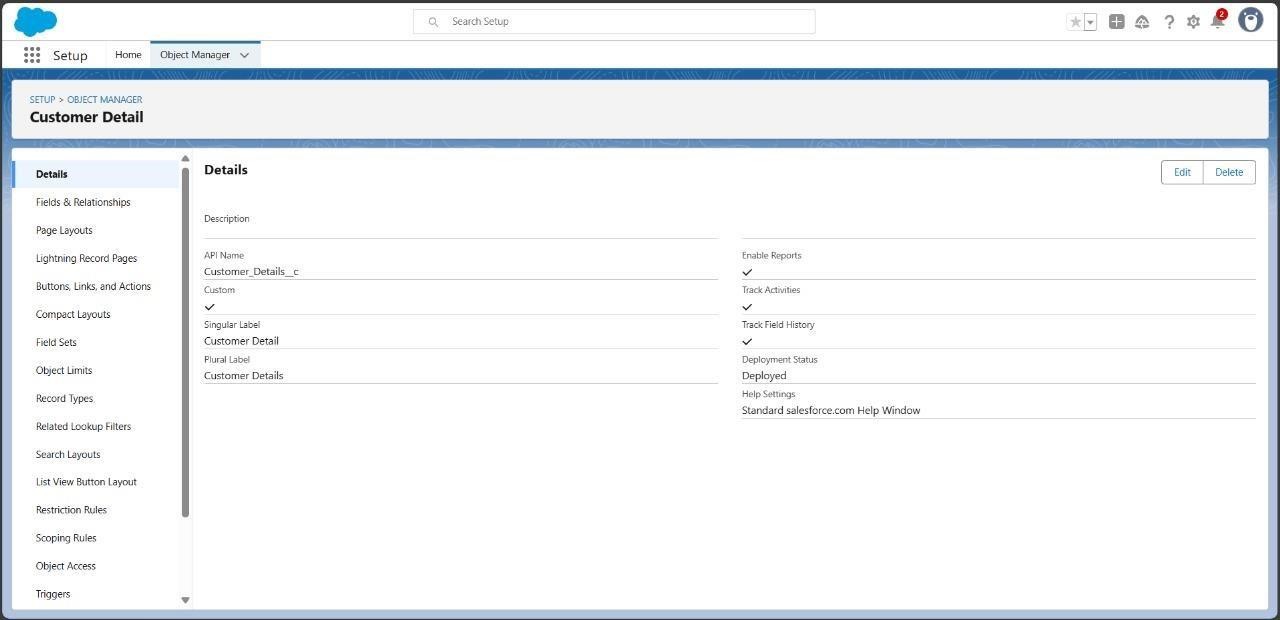


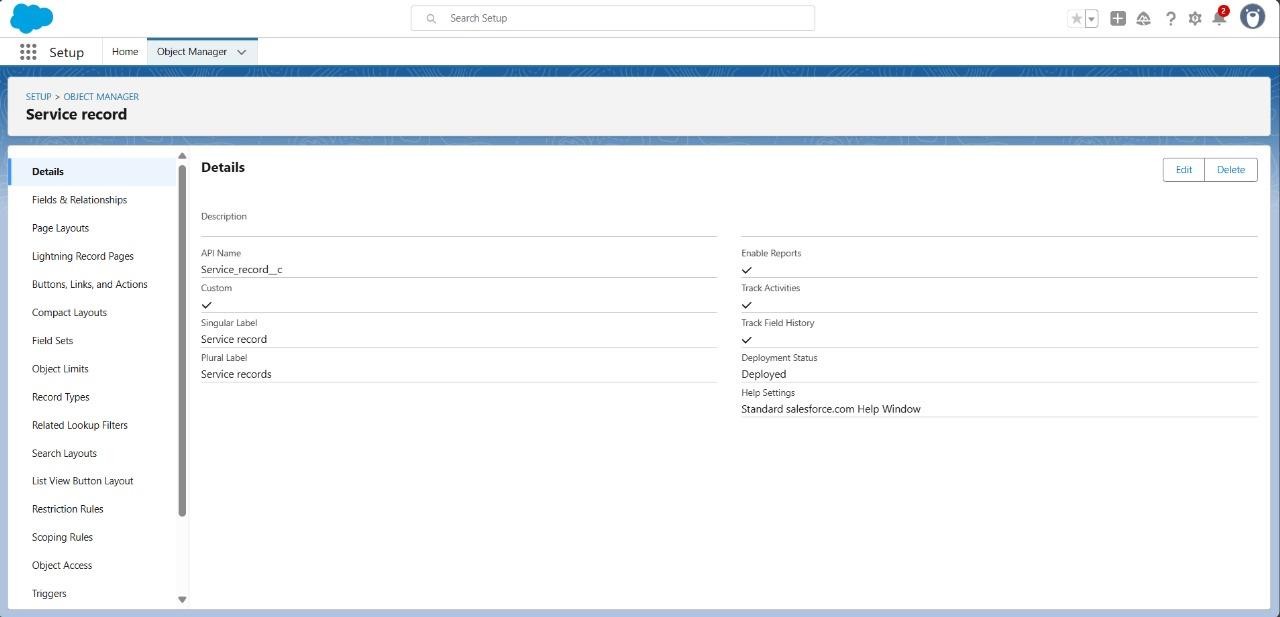
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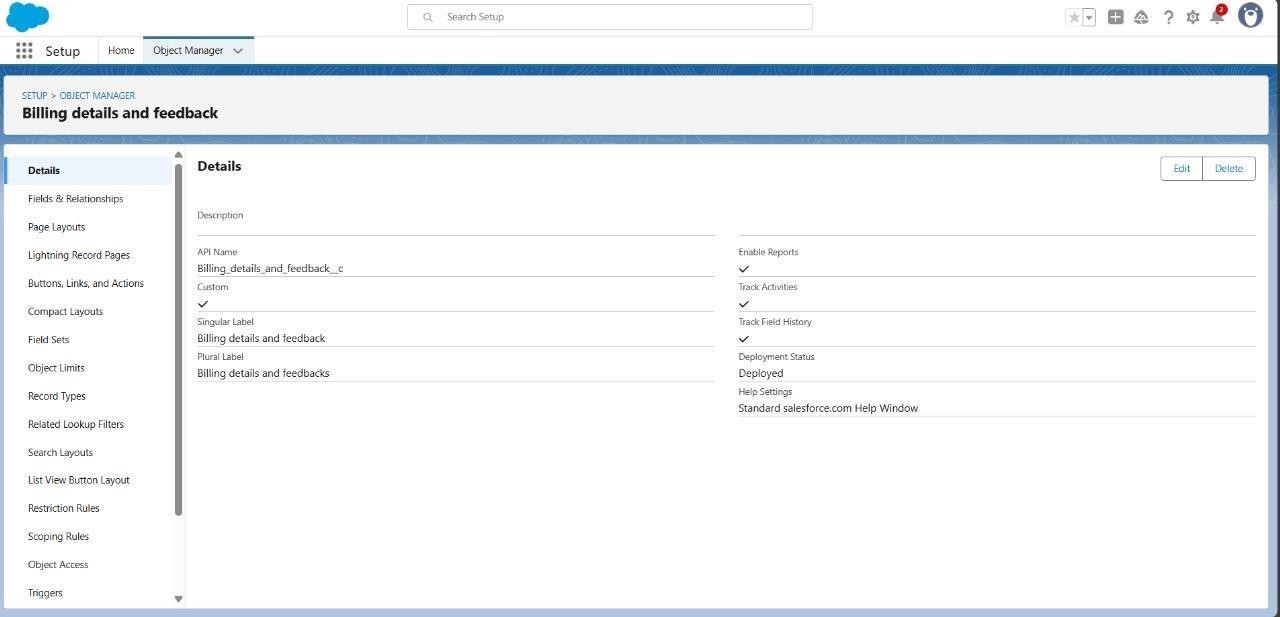


This will redirect to your salesforce setup page.

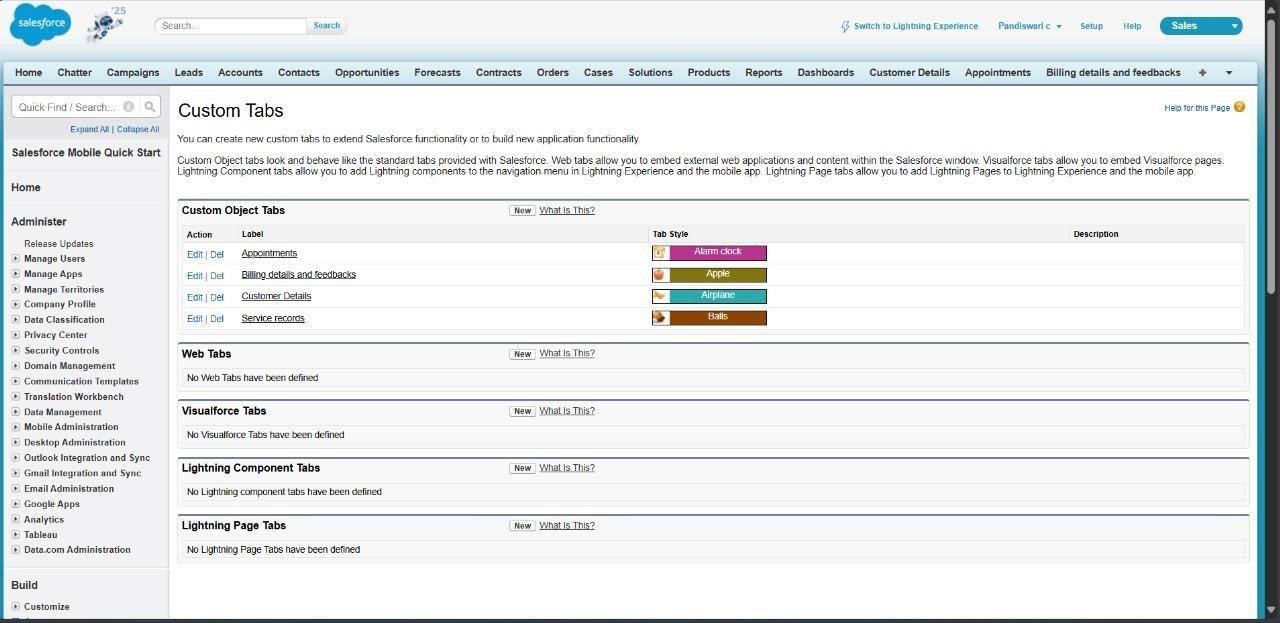
Create Objects: Customer Details, Appointments, Service Record, Billing Details and Feedback Object.



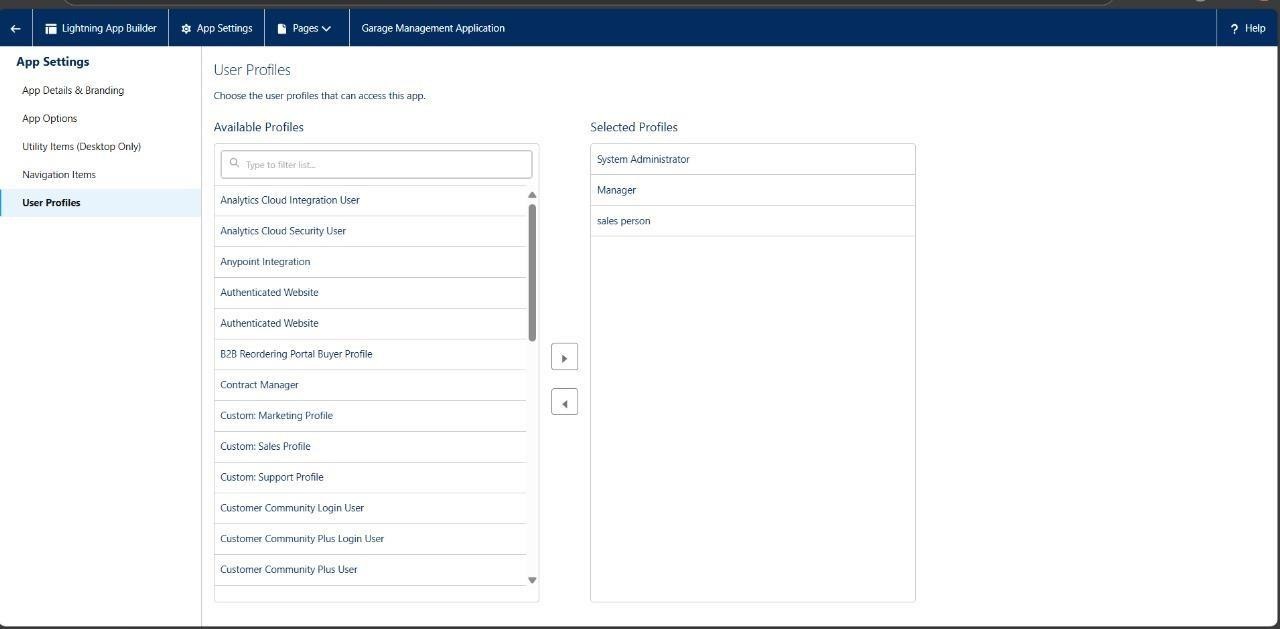
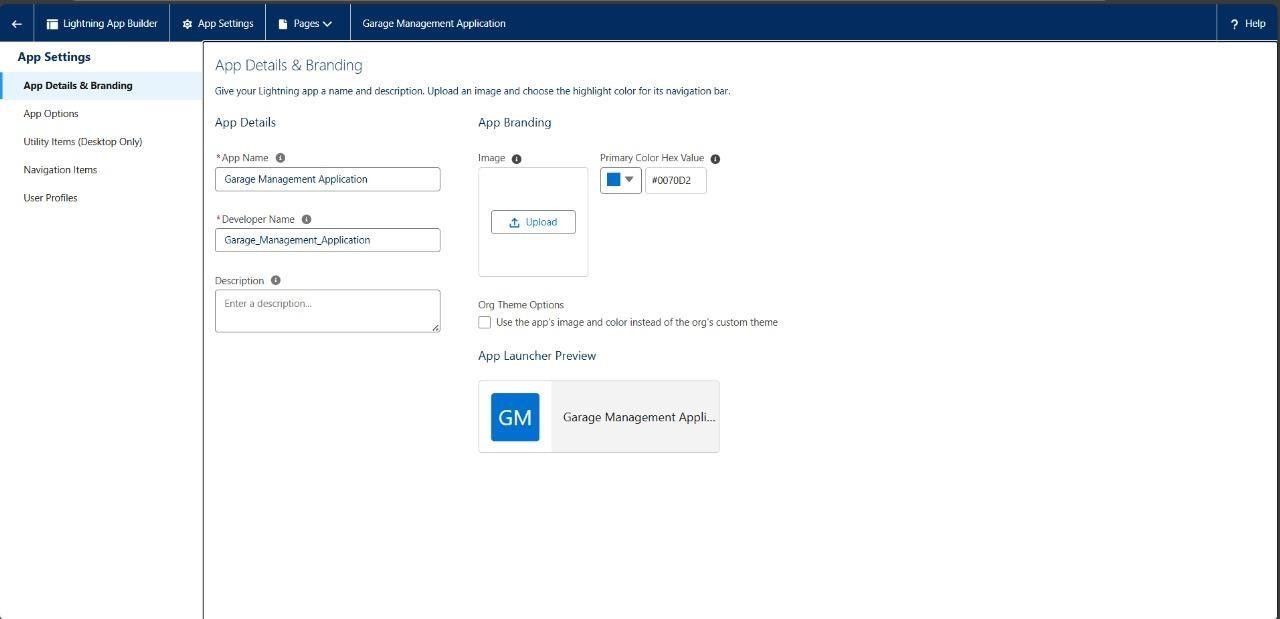


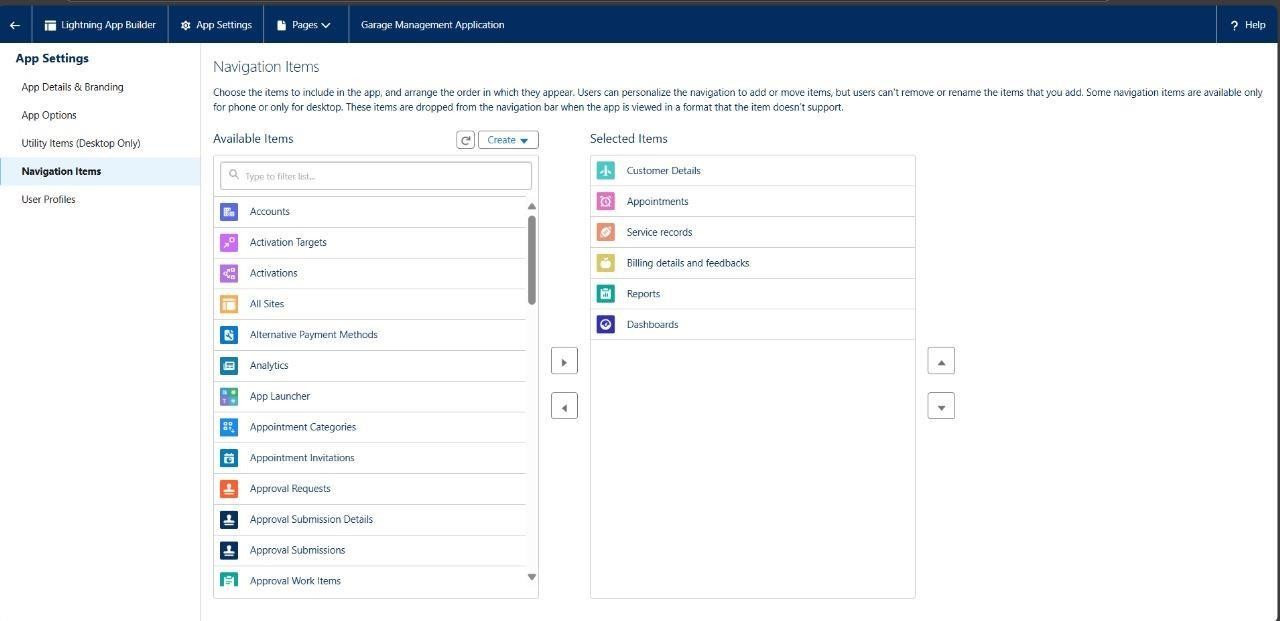


Creating Tabs: Customer Details, Appointments, Service Record, Billing Details and Feedback Object.

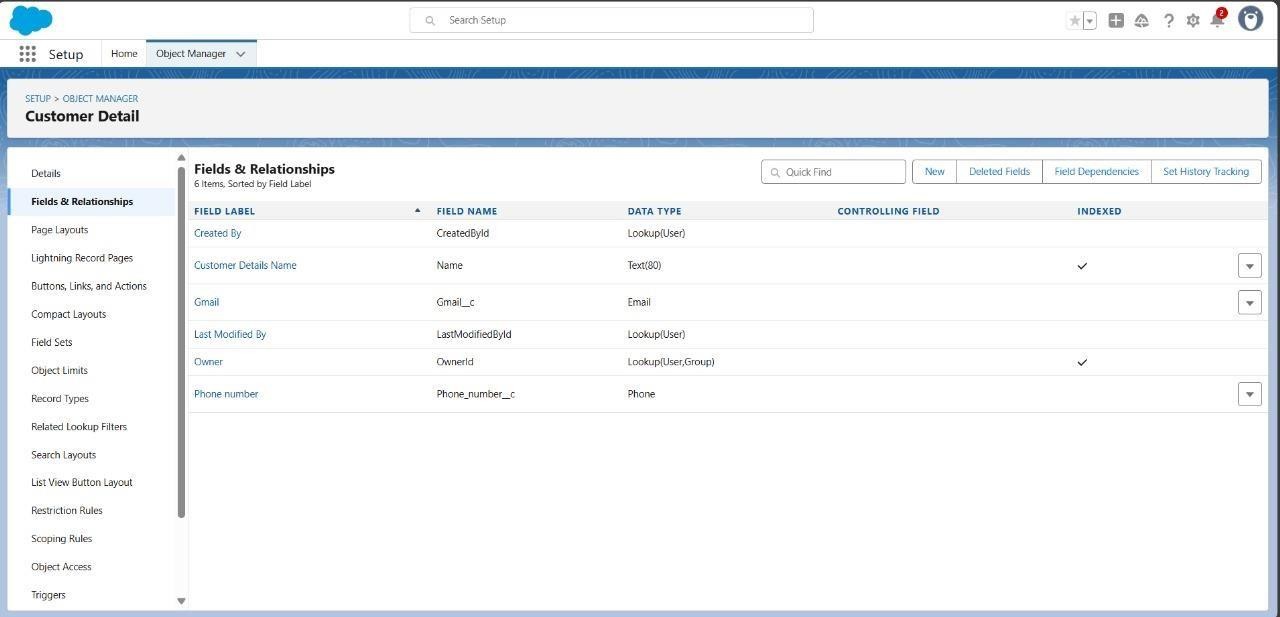


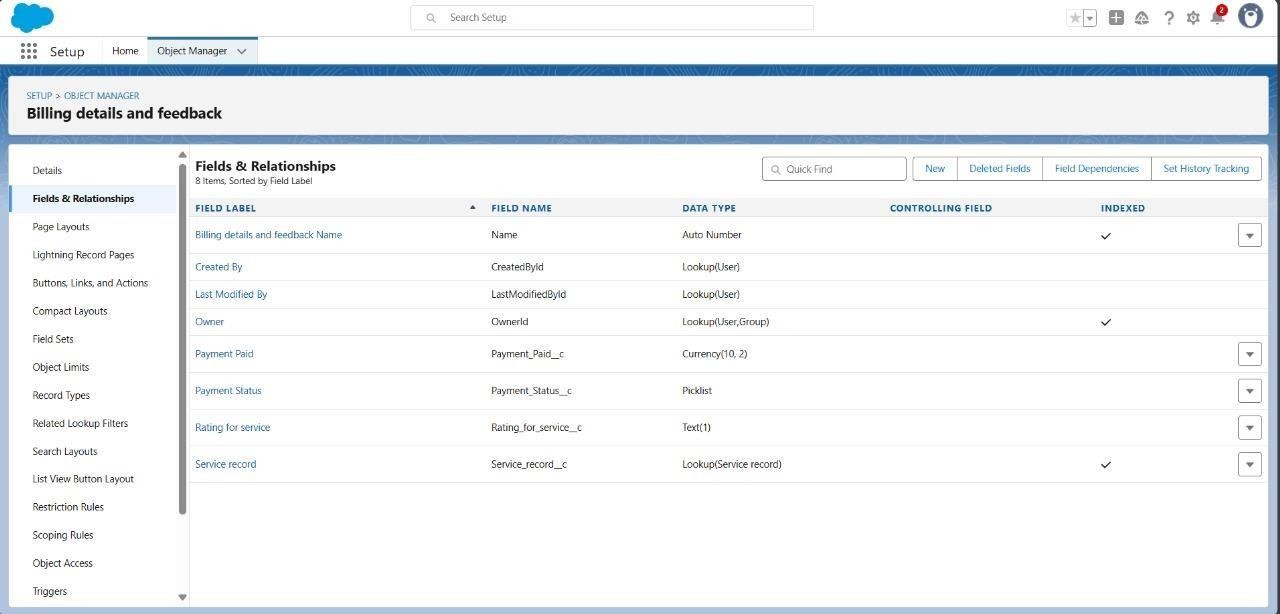
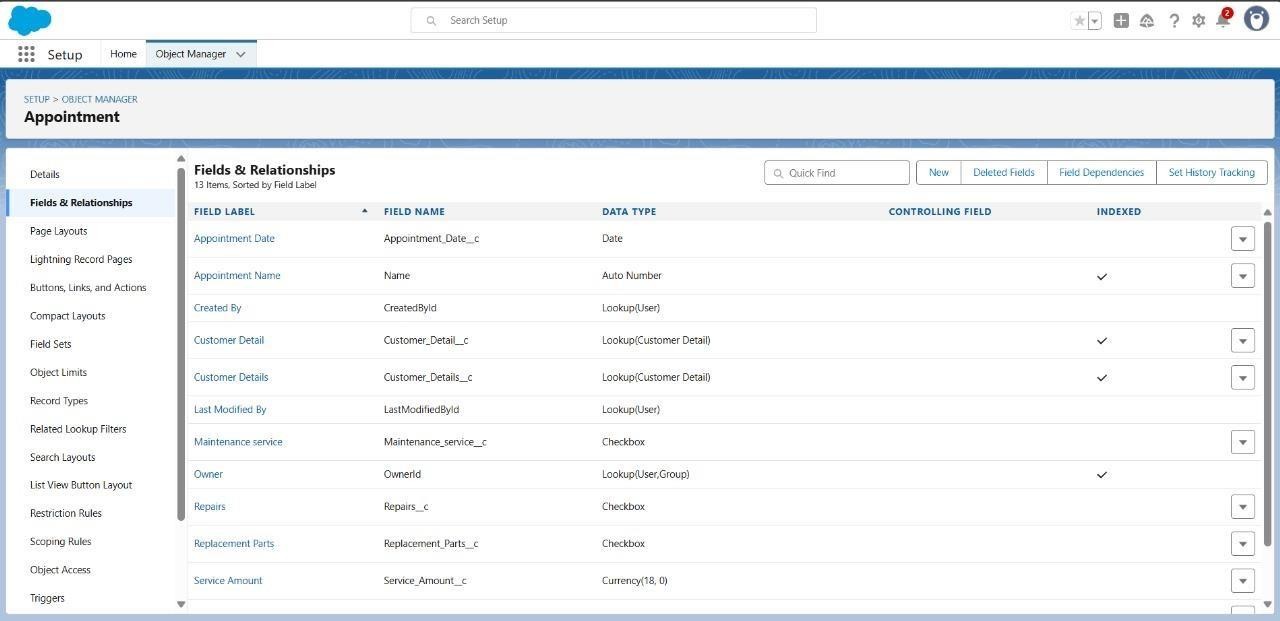
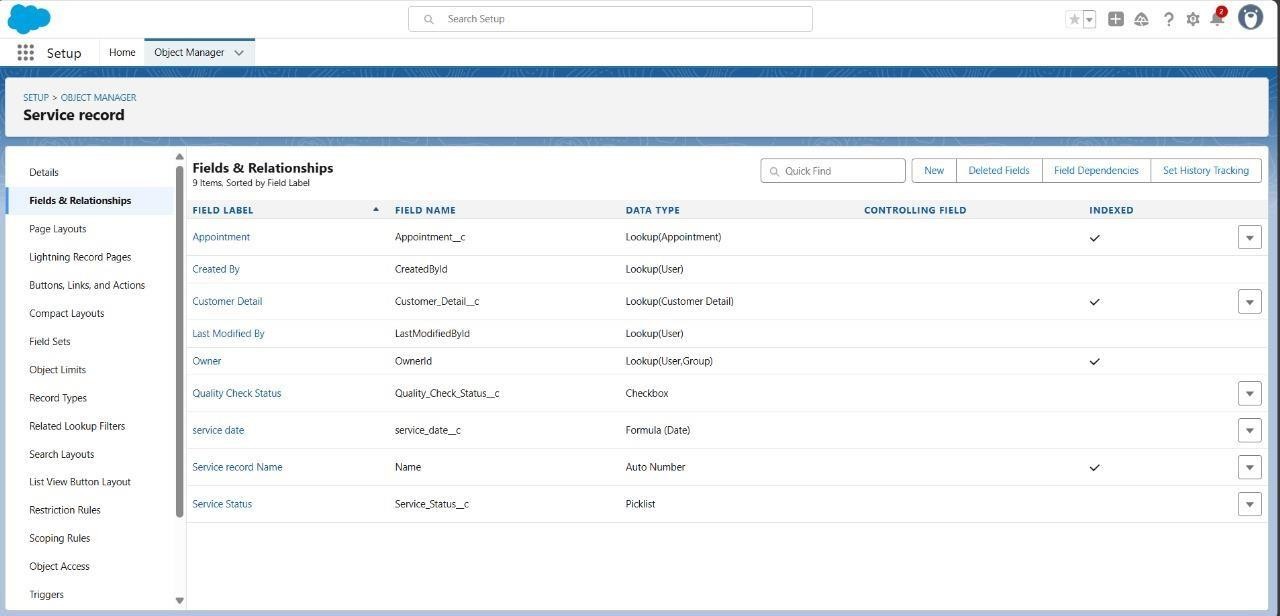
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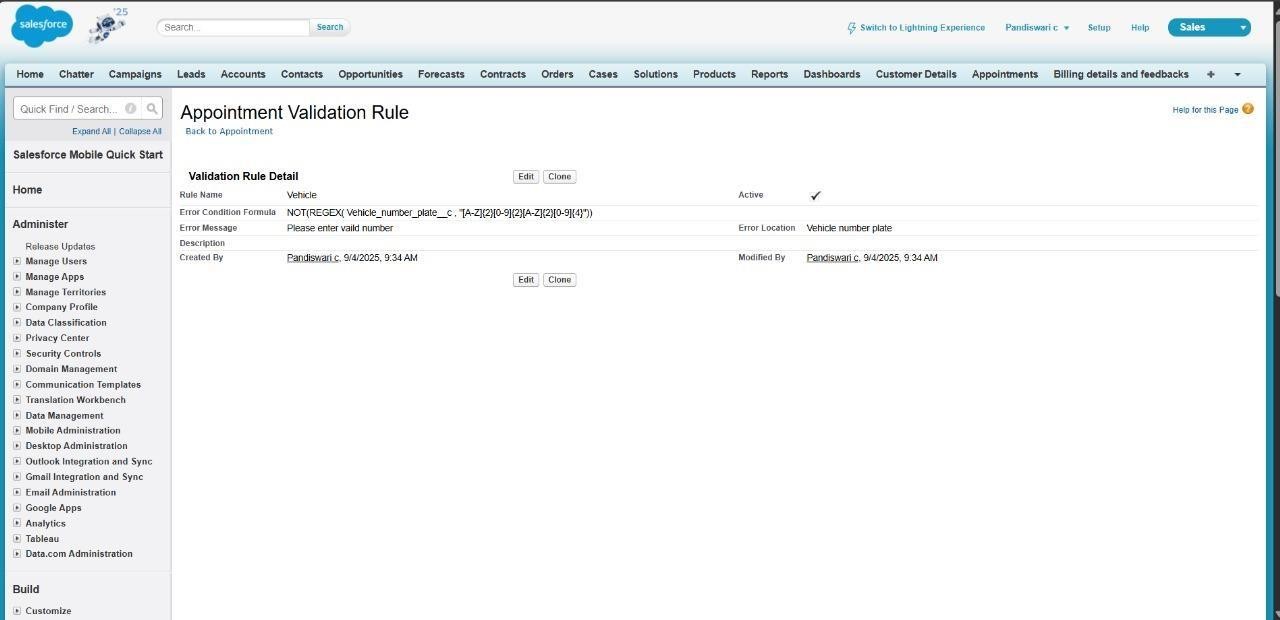


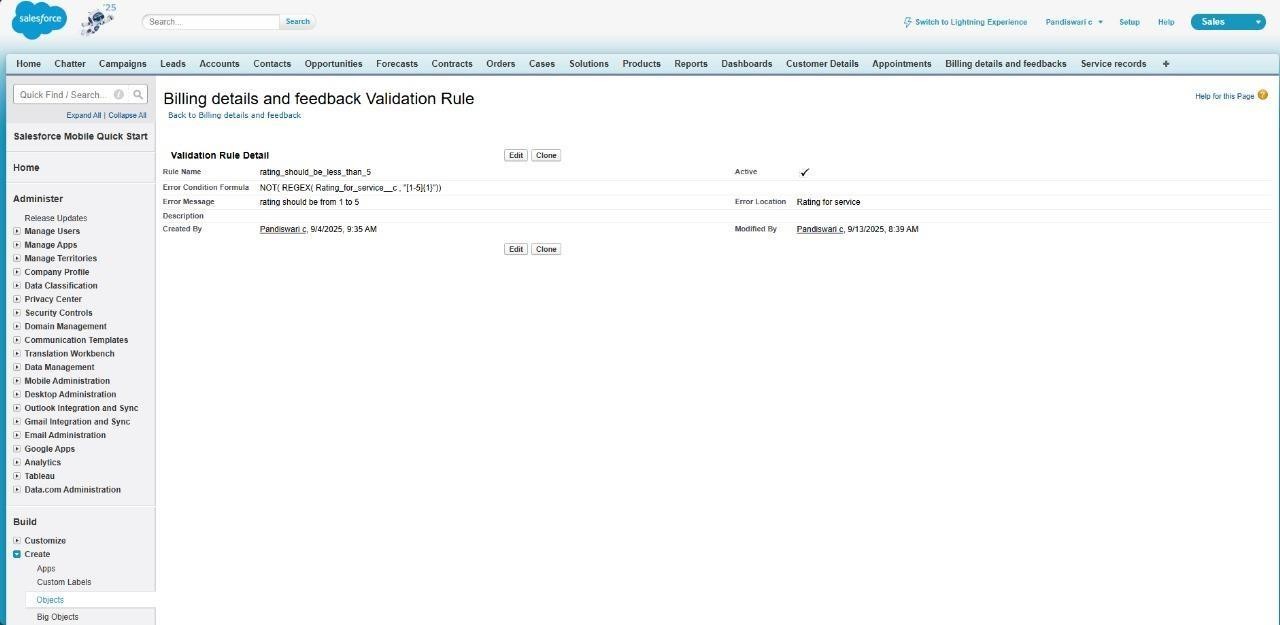
Configured fields and relationships



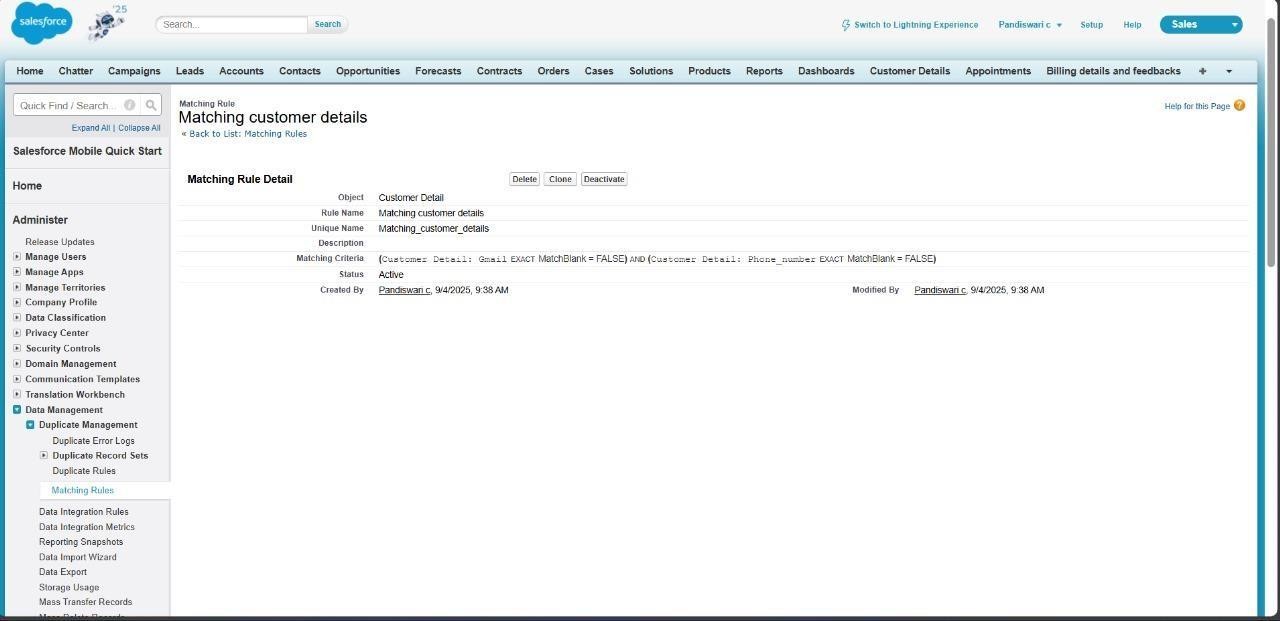


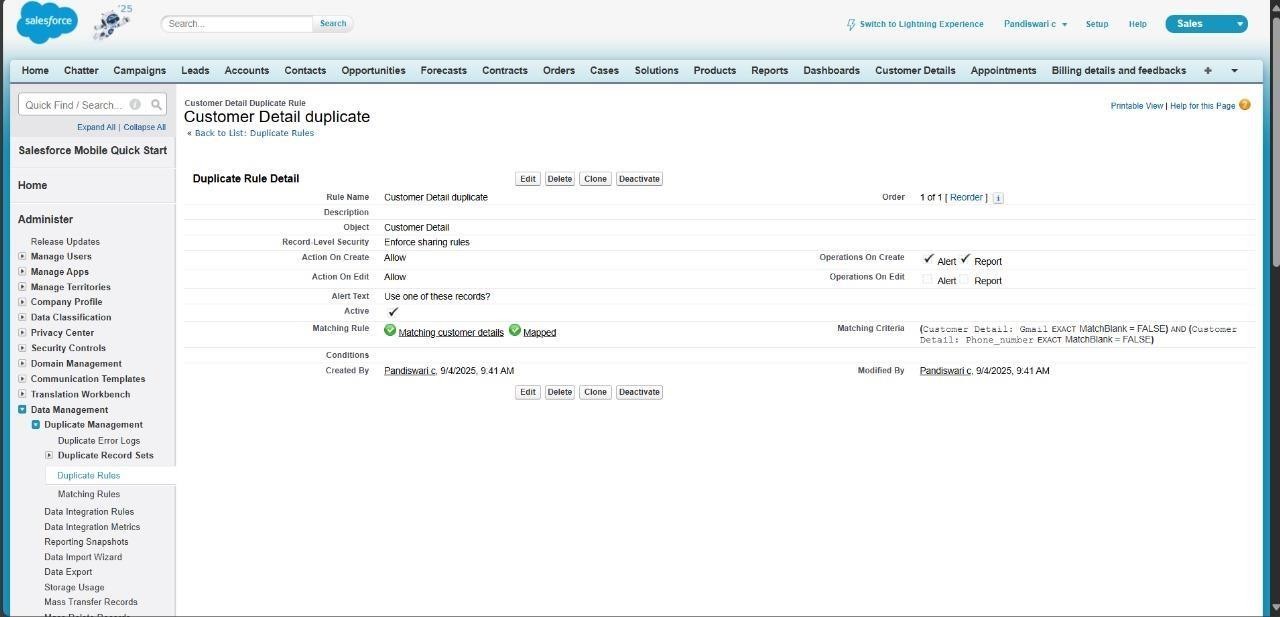
Create a Validation Rule



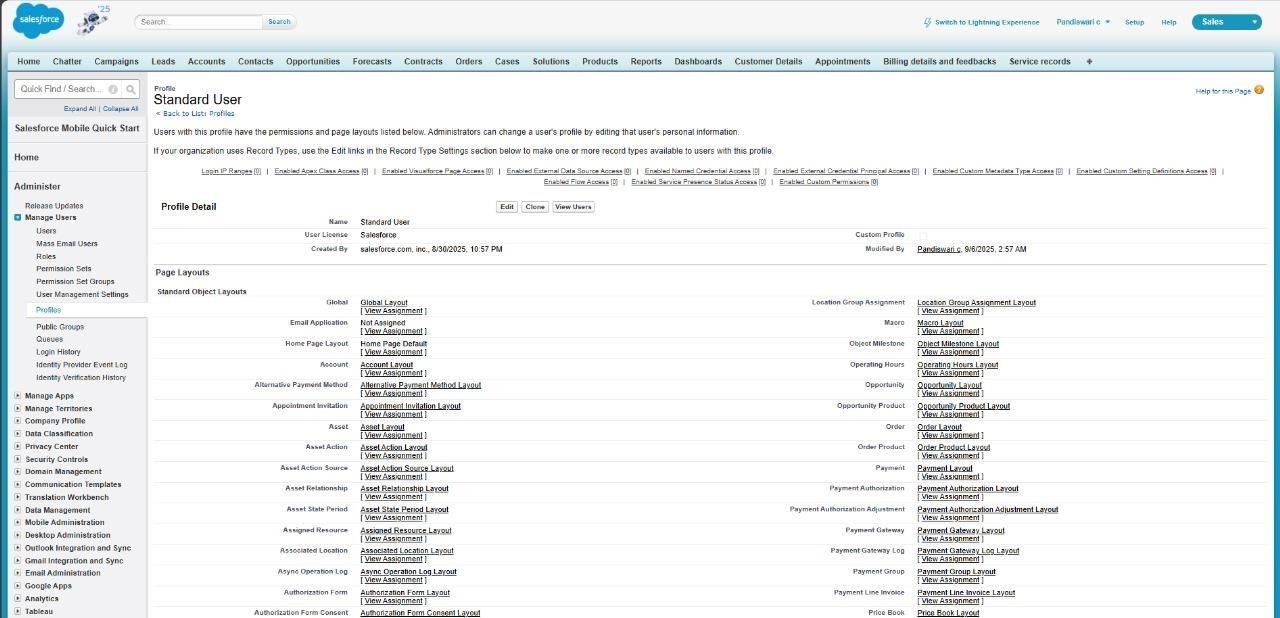


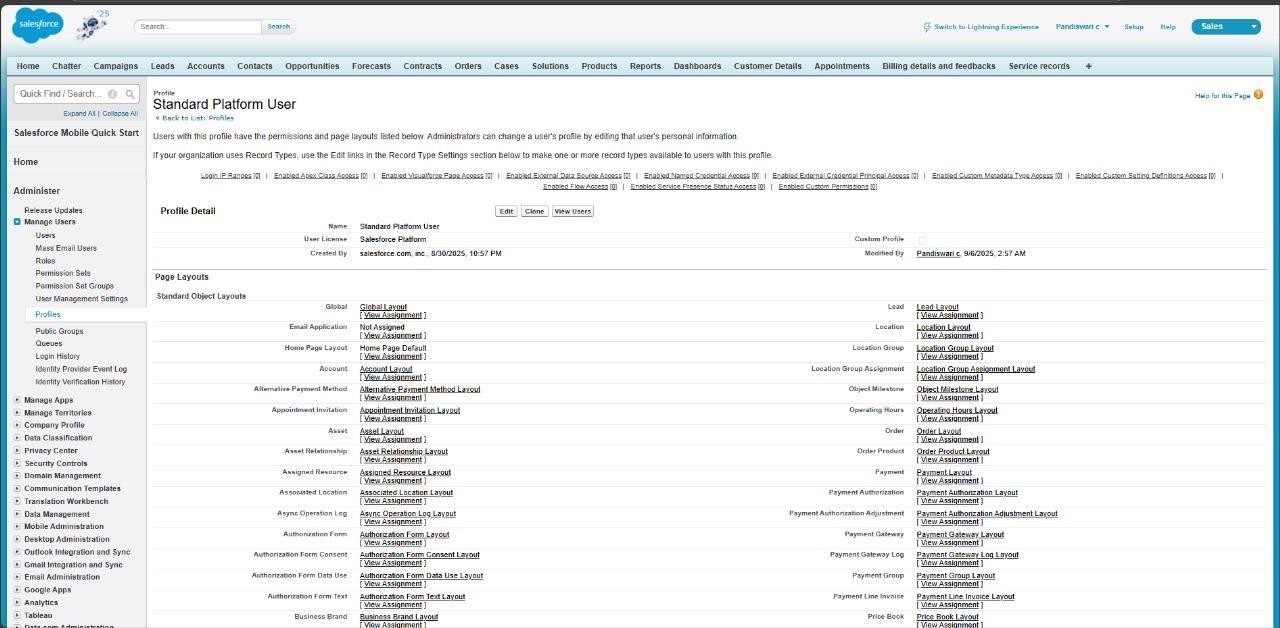
Create a Duplicate Rule





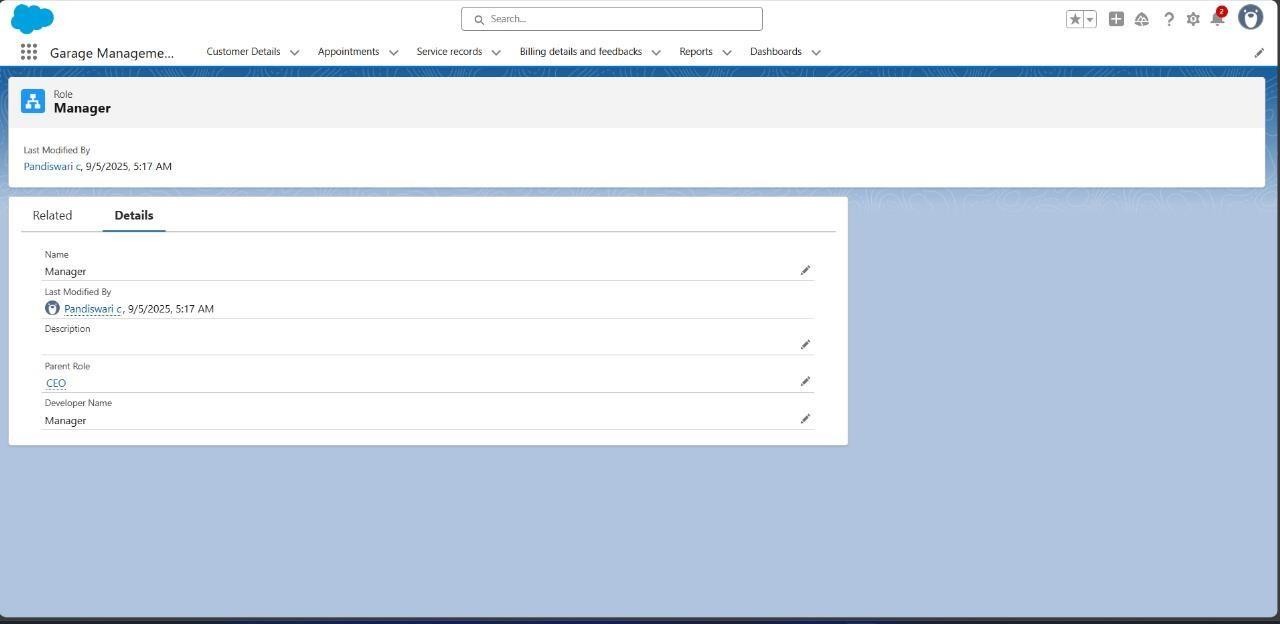
Creating a Profile

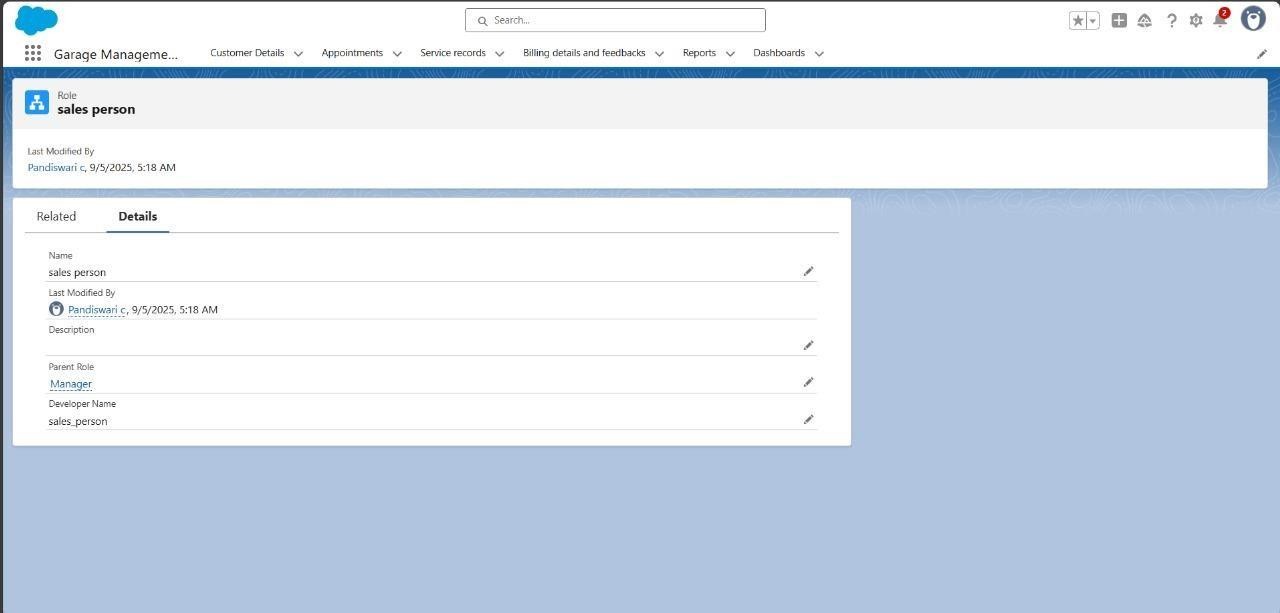




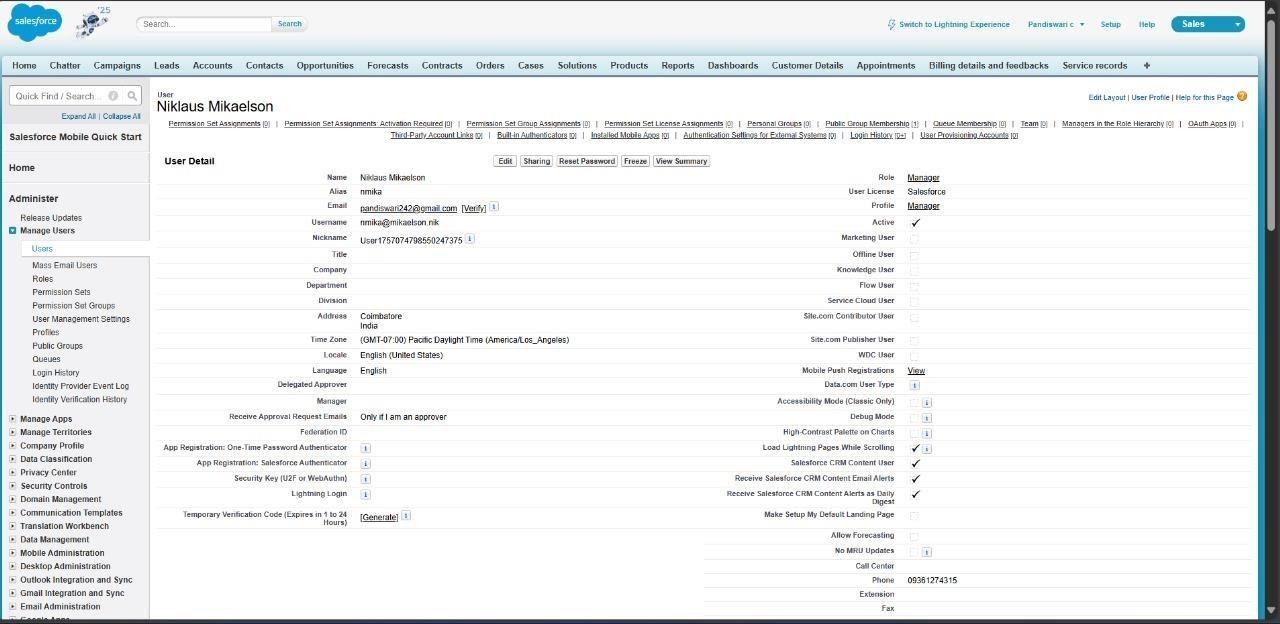
Creating Role and Role Hierarchy ”Manager” and “Sales

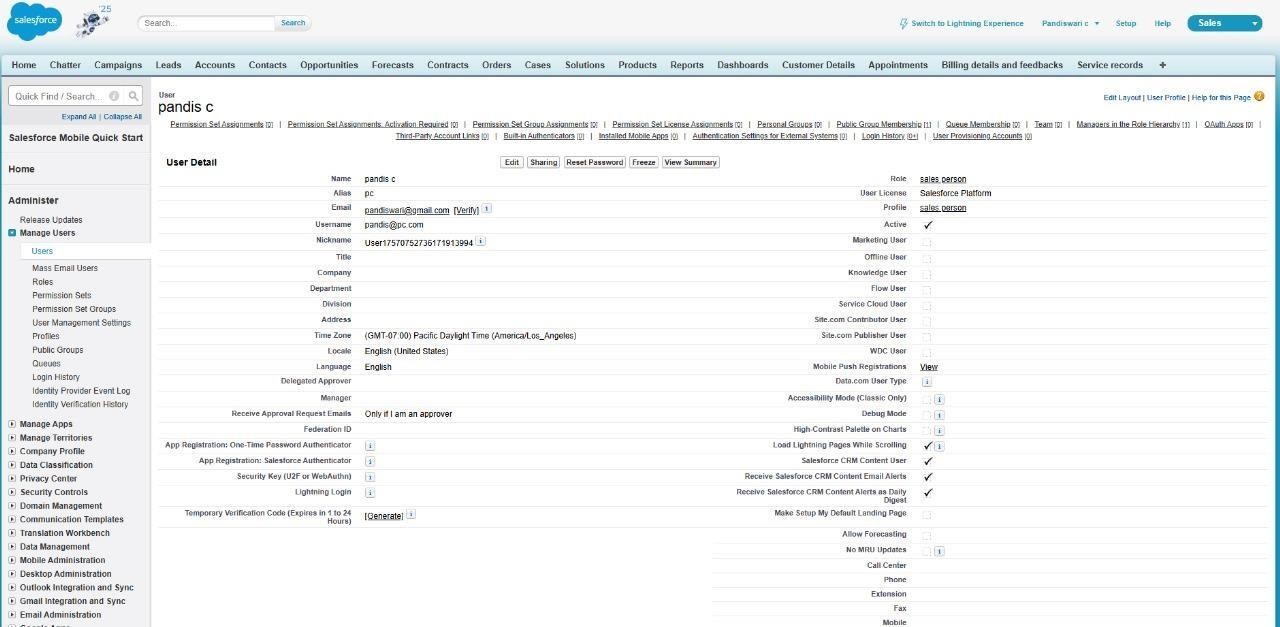
Person”



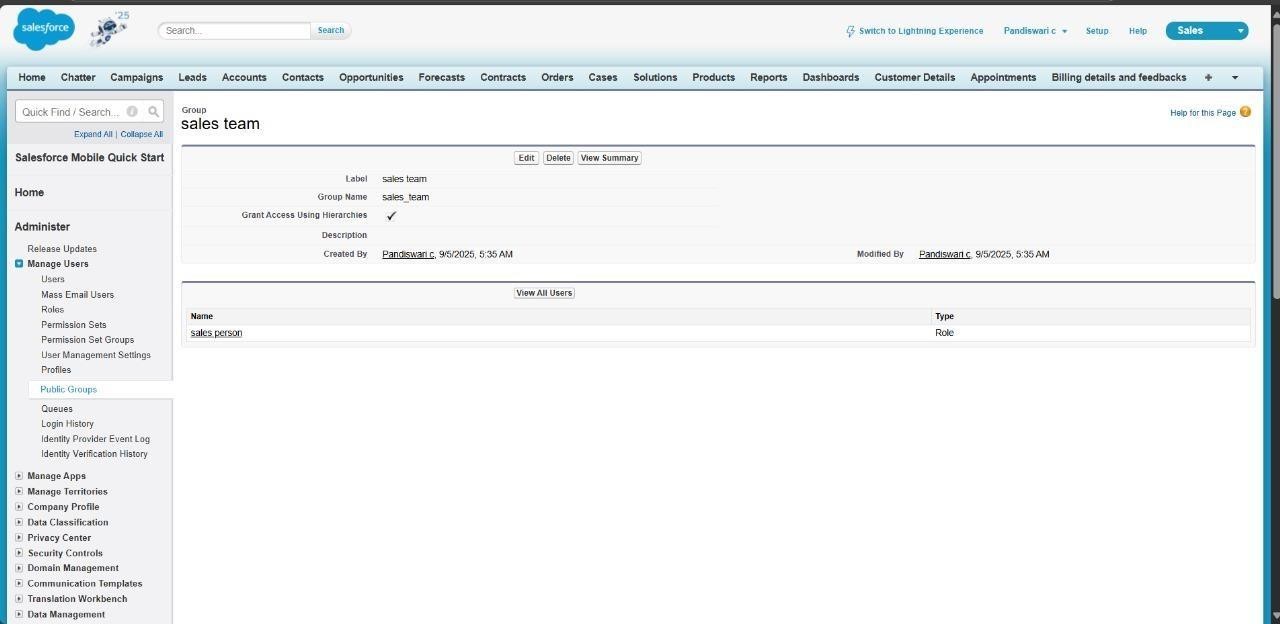


Creating users as Niklaus Mikaelson and other users

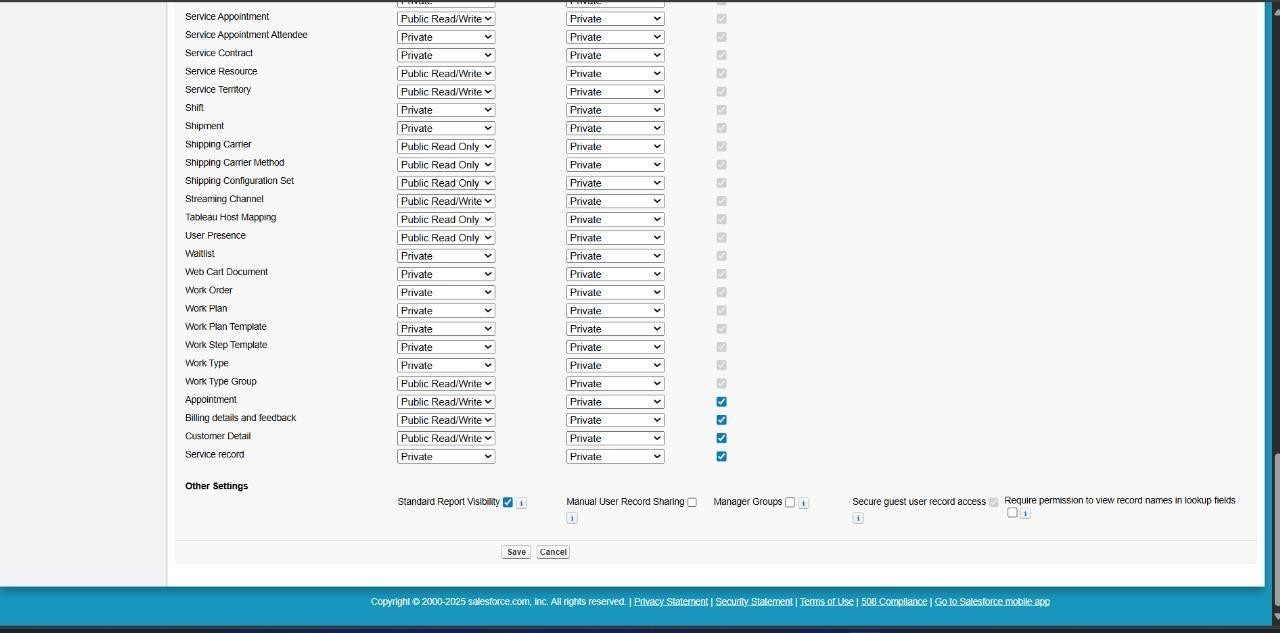




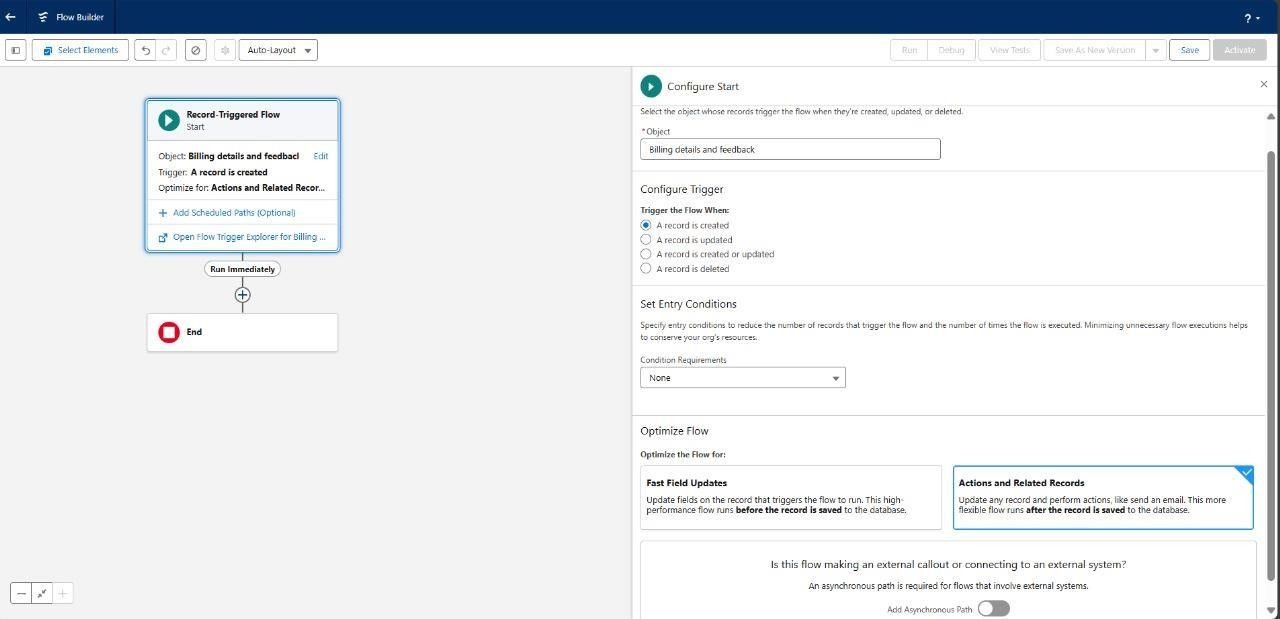
Creating New Public Group “Sales Team”



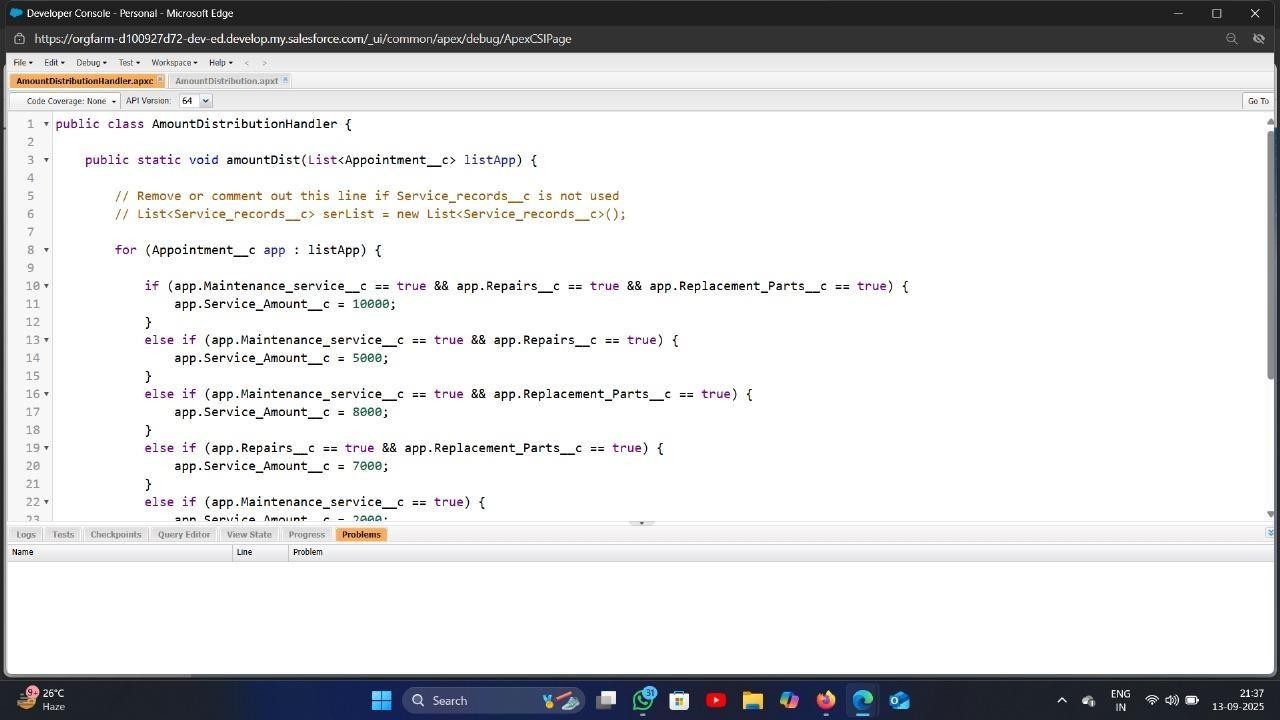
Creating Sharing Settings “Sharing setting”

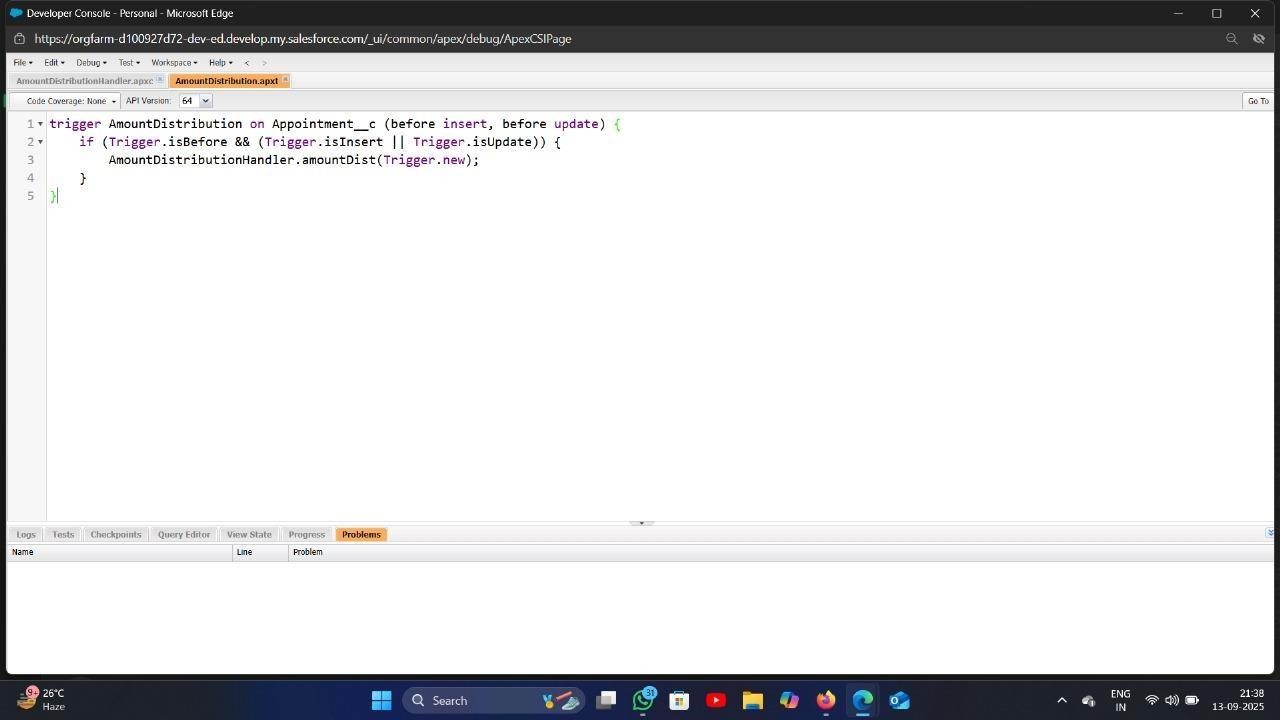


Creating Flows



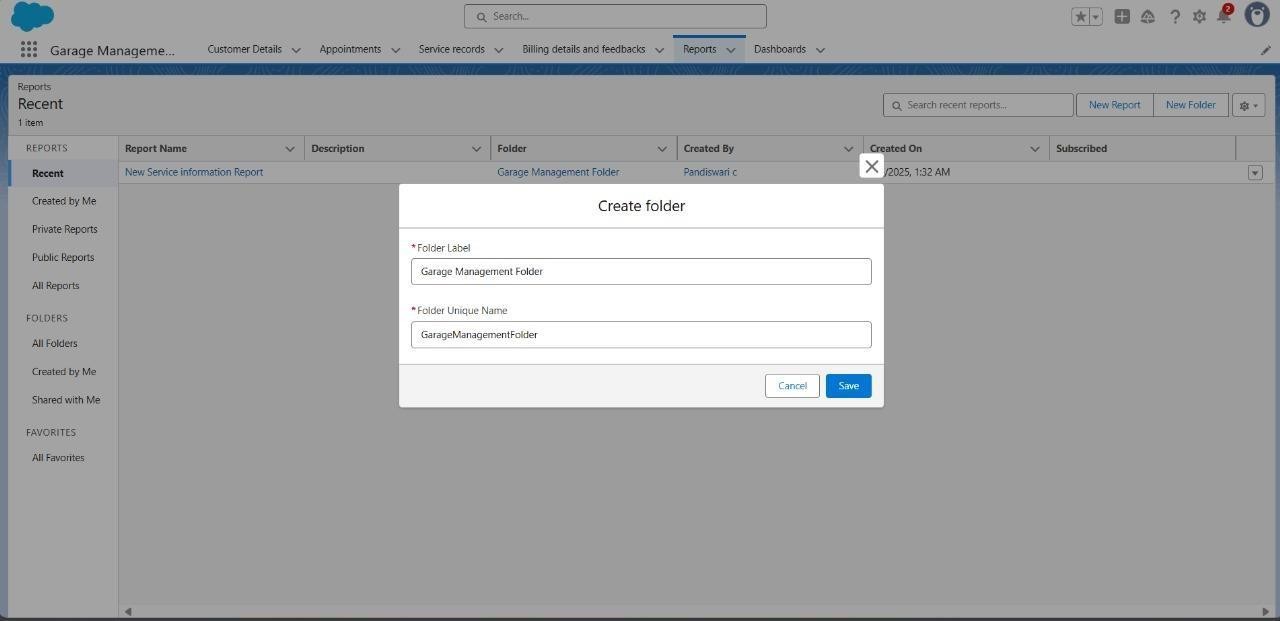
Creating and Apex Class “AmountDistributionHandler” , ” AmountDistribution”.



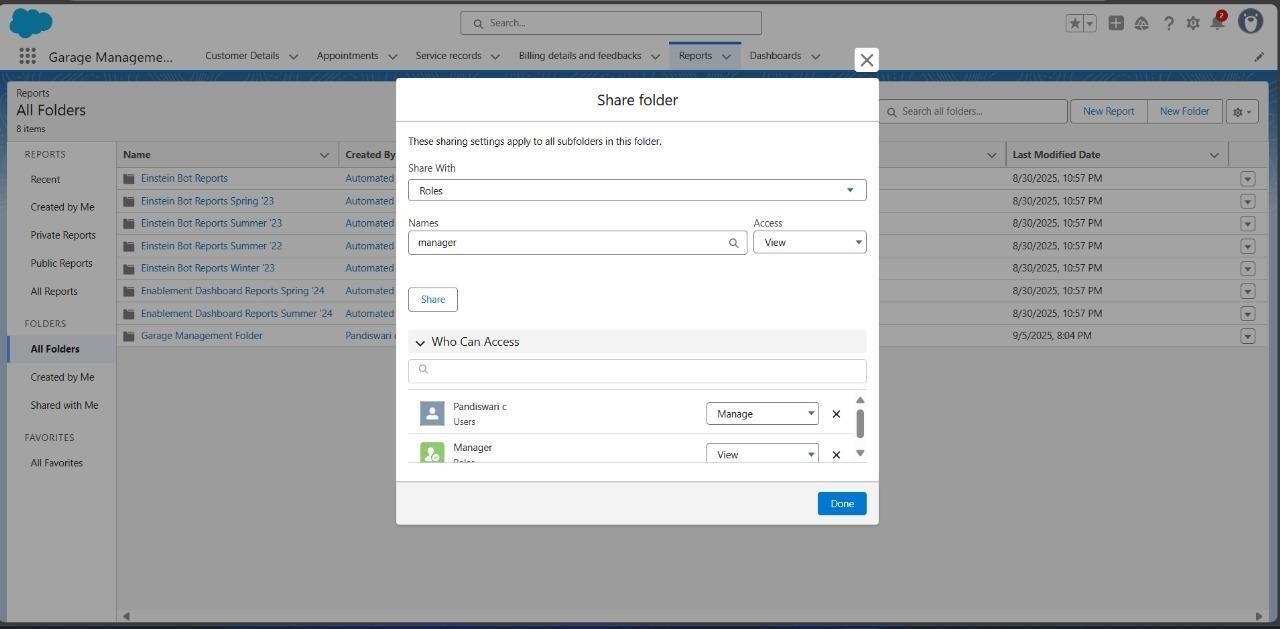


Reports

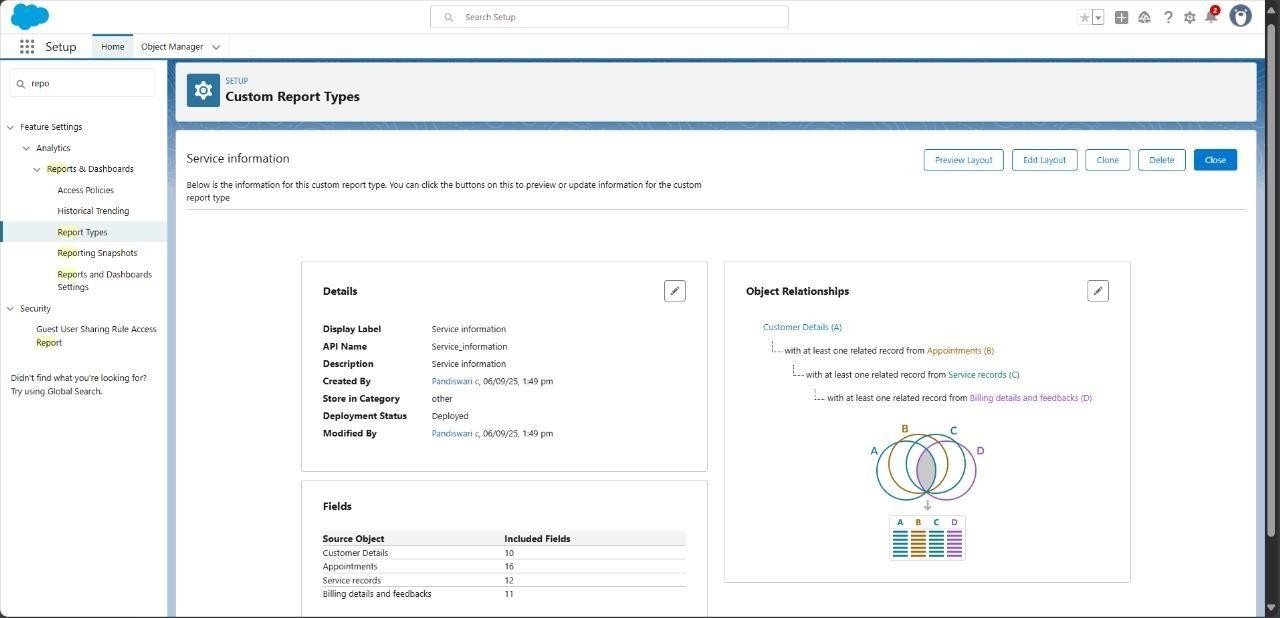
Creating a Report Folder



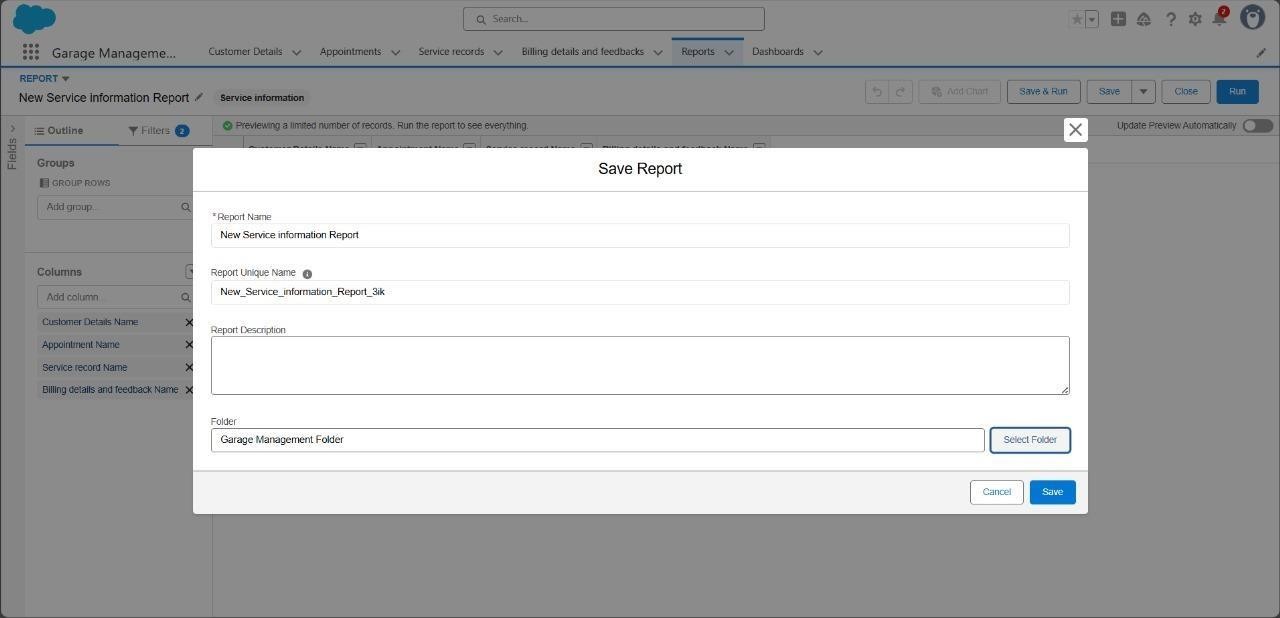
Sharing a Report Folder

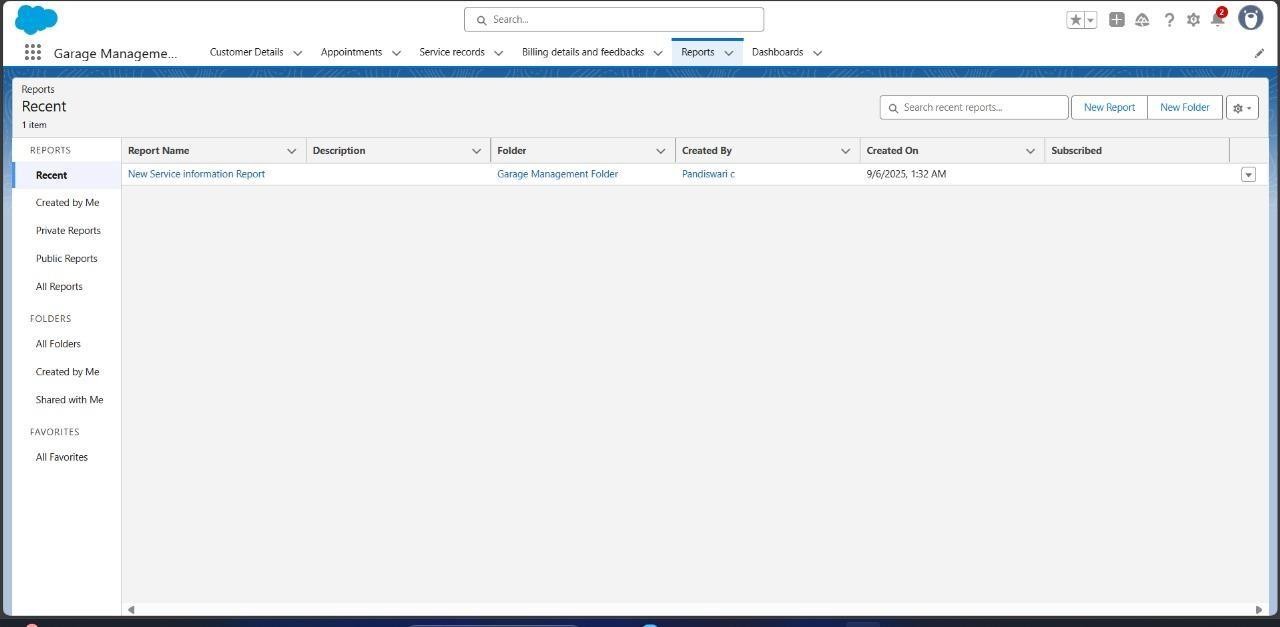


Creating Report Type



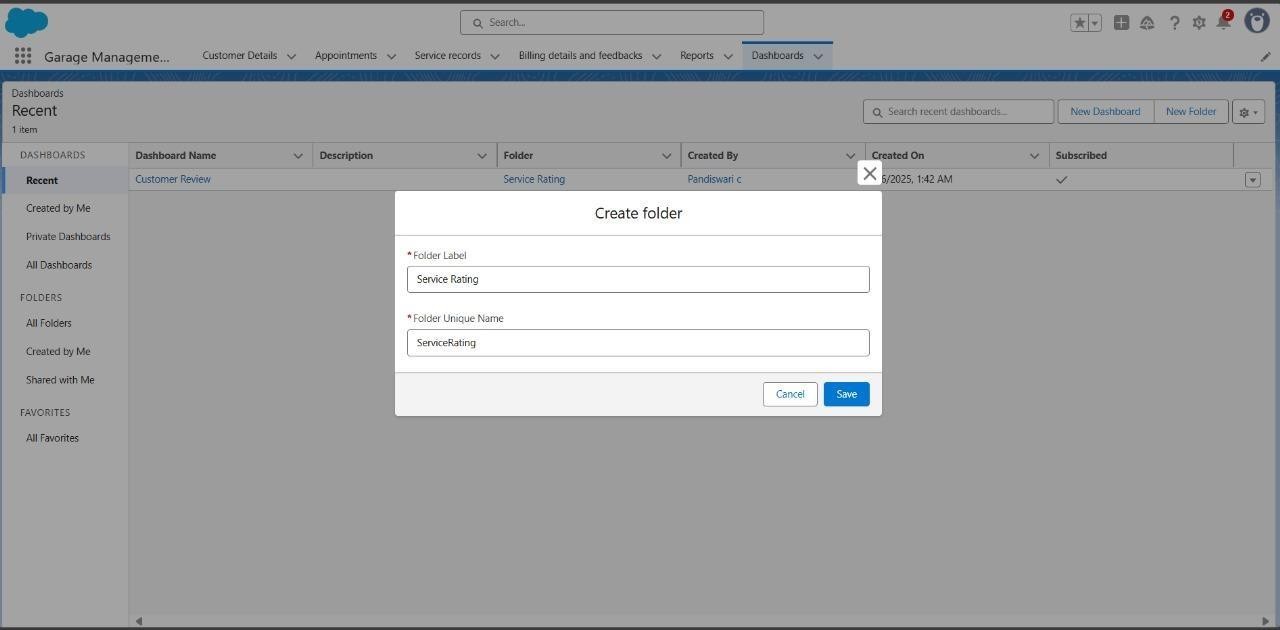
Create Report



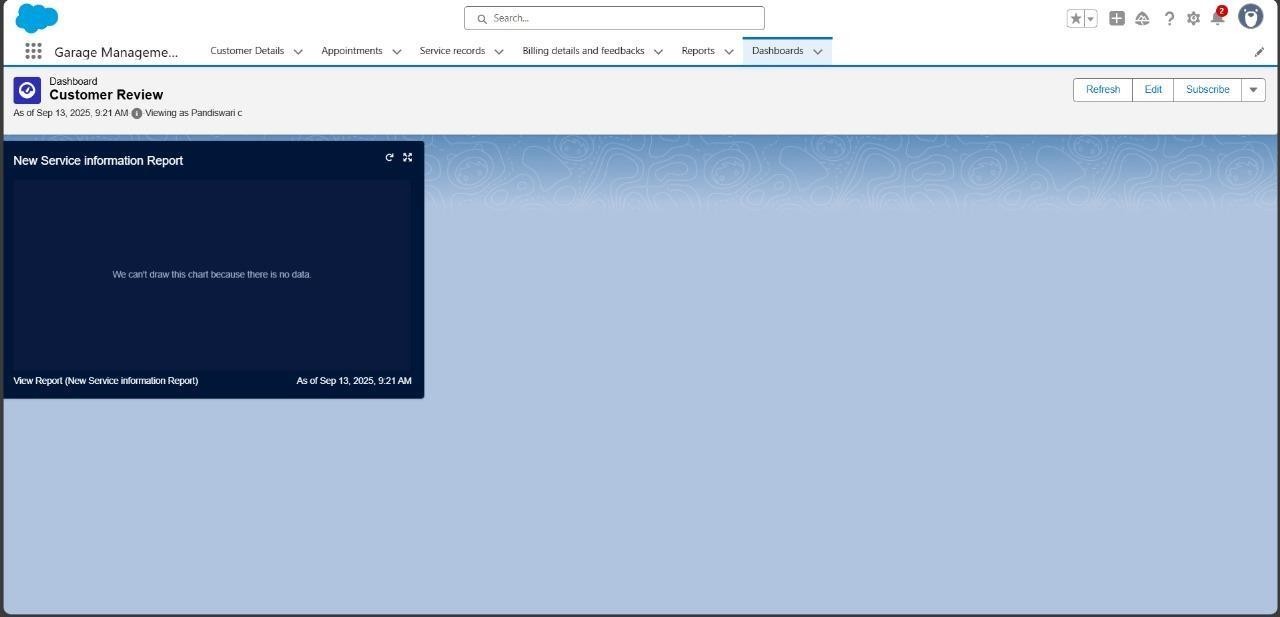


Dashboards

Creating Dashboard Folder

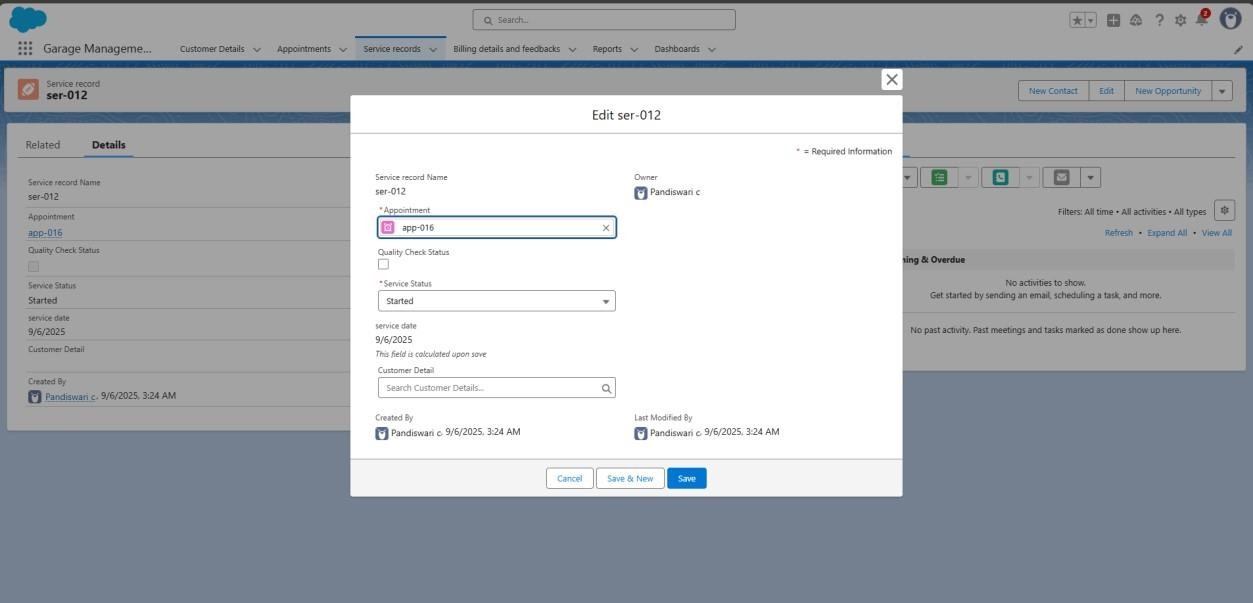
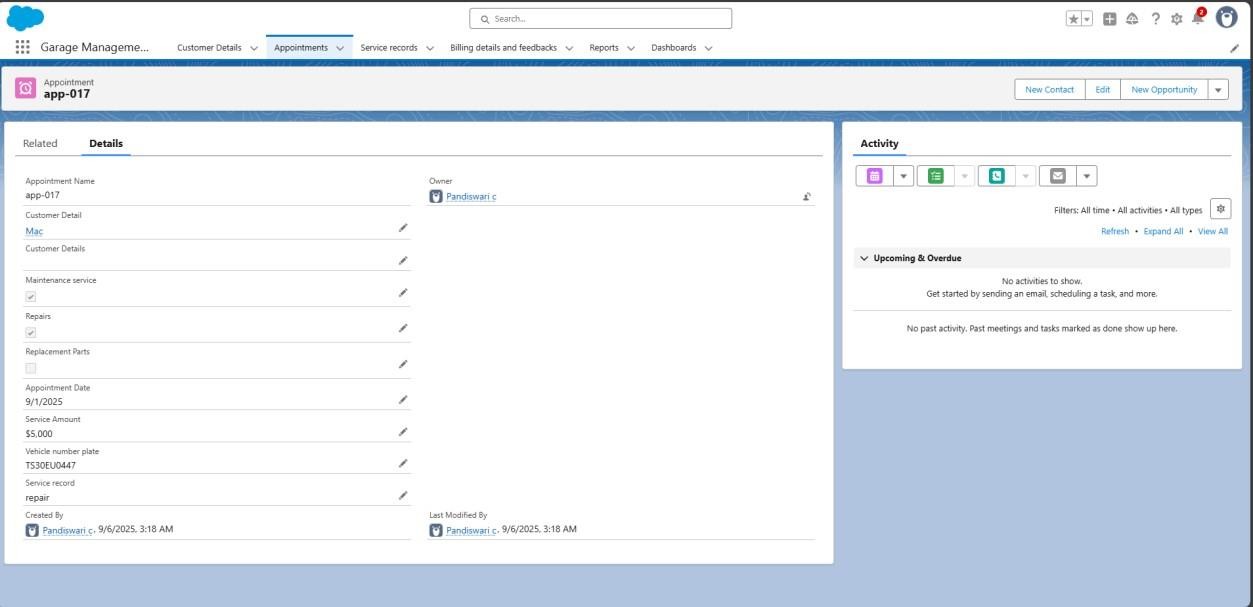
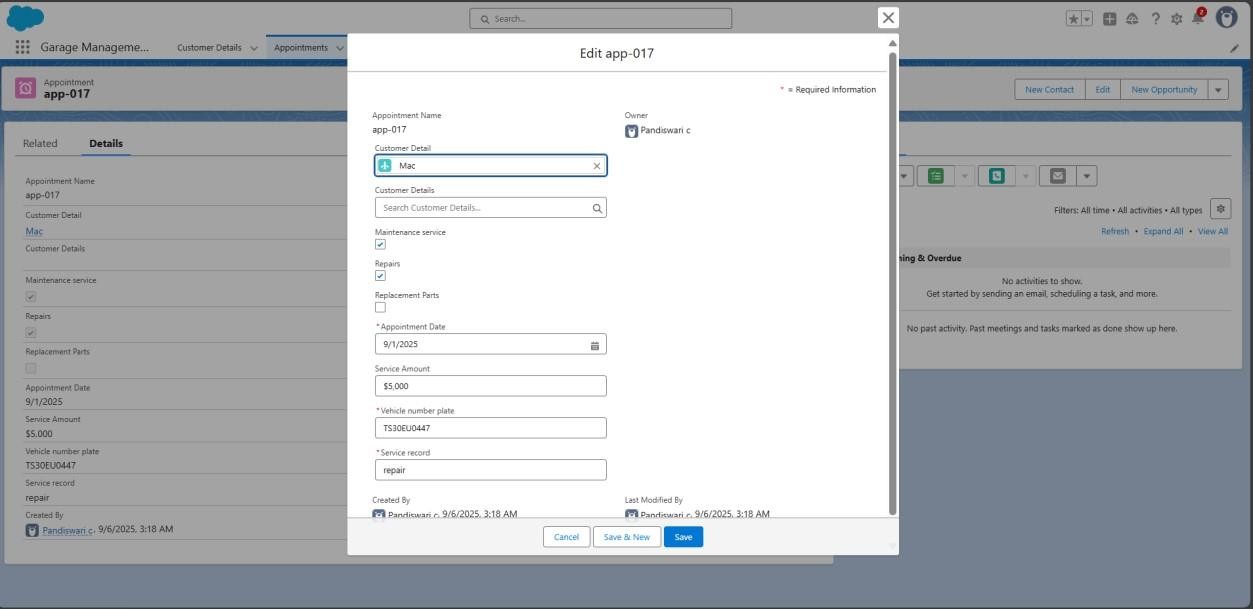
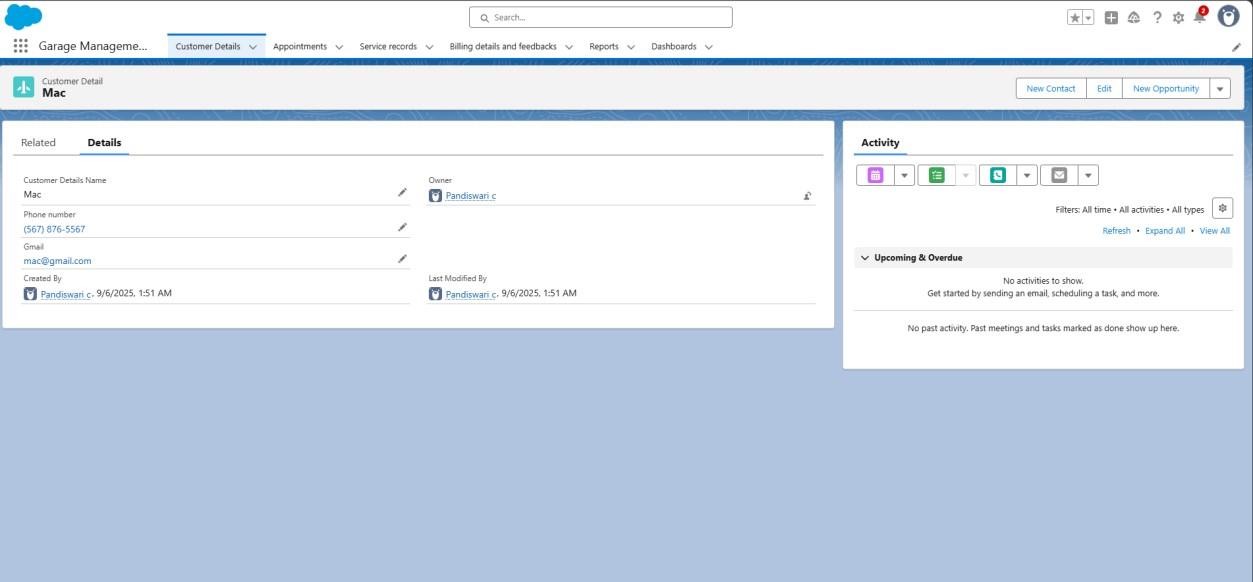
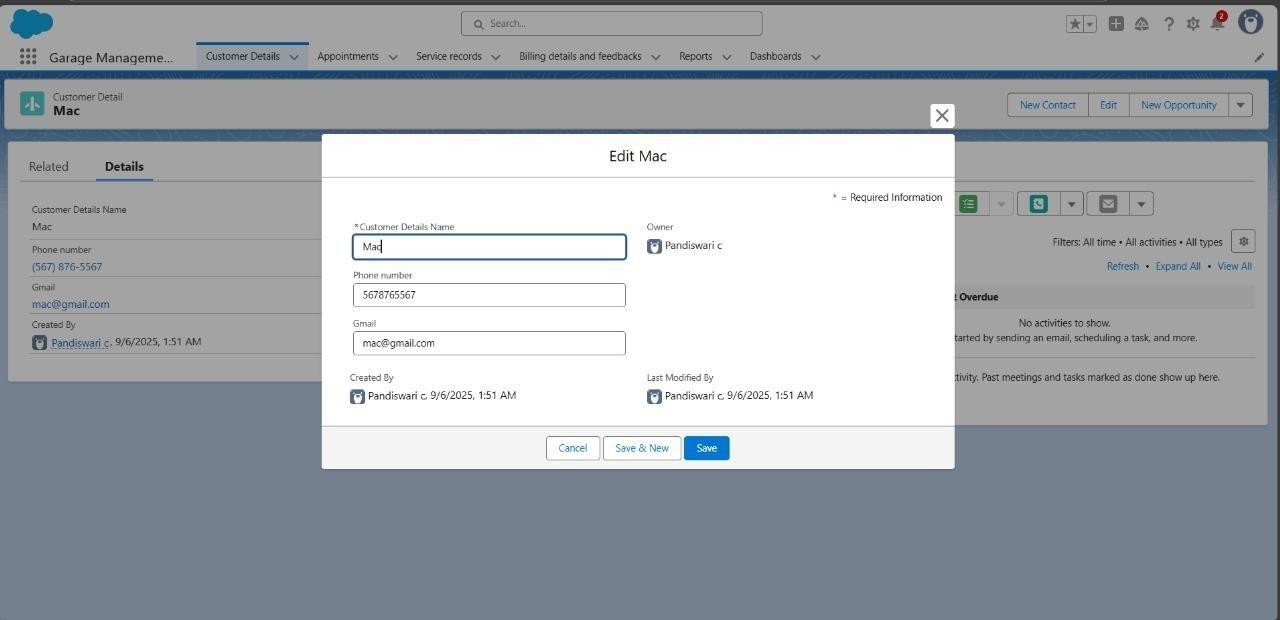


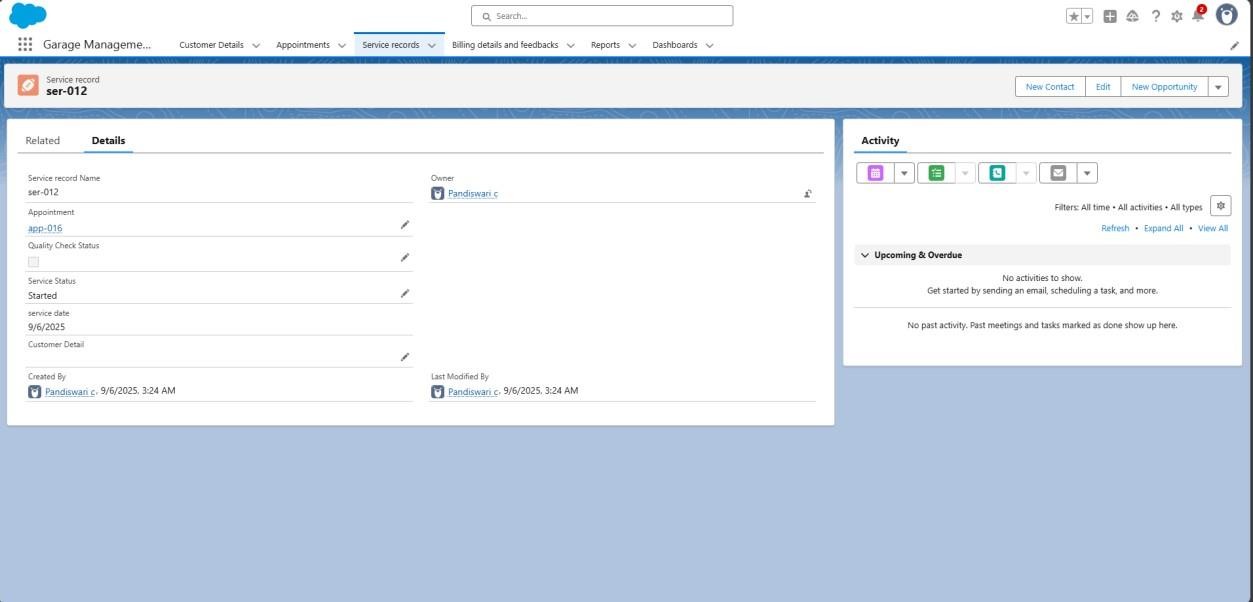
Create Dashboard



User adaption

Creating Records





ADVANTAGES AND DISADVANTAGES **Advantages:**

* Automates garage operations, saving time
* Keeps customer and vehicle records organized
* Improves service tracking and job assignment
* Generates quick and accurate bills
* Helps manage spare parts inventory efficiently
* Provides reports for better decision-making.

**Disadvantages:**

* Initial setup cost may be high
* Requires basic computer knowledge to operate
* System failure or bugs can interrupt work
* Data security is needed to protect customer information
* Regular updates and maintenance are required

# CONCLUSION

The Garage Management System is a useful tool that helps automate and simplify the daily operations of a vehicle service center. It improves efficiency, reduces manual work, and ensures accurate tracking of services, inventory, and billing. Despite some initial setup and training needs, it offers long-term benefits in managing the garage smoothly and professionally.

APPENDIX

Source Code 1 :

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;

}

}

}

}

Code 2:

trigger AmountDistribution on Appointment\_\_c (before insert, before update) {

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

}

}