# GARAGE MANAGEMENT SYSTEM

college name : Kamalam college of arts and science

college code: Bru5s

TEAM ID NM2025TMID26804

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# INTRODUCTION

## 1.1 project view

A Garage manegement system (GmD) is a software solution designed to streamline and automate the daily operation of a Garage, work shop or automobile service centre.

Garage Management System is a software solution designed to manage day-to-day operations in an automobile garage or service center. It helps streamline processes like customer handling, vehicle servicing, billing, and inventory tracking.

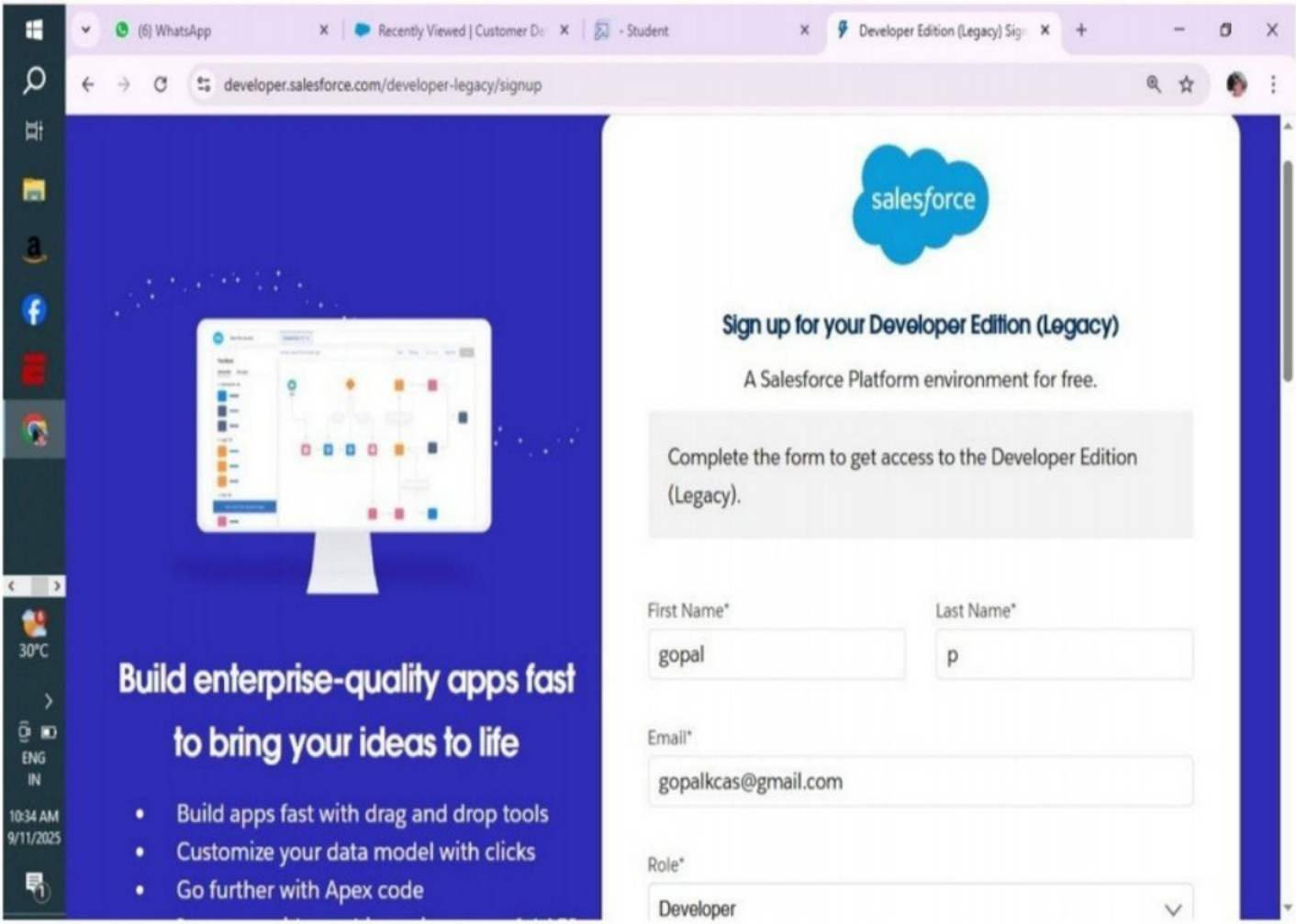
## 1.2 Purpose

The main objective of the project is to enable organizations to efficiently manage properties, tenants, and lease-related activities. It reduces manual intervention, improves accuracy, and ensures better compliance and communication.

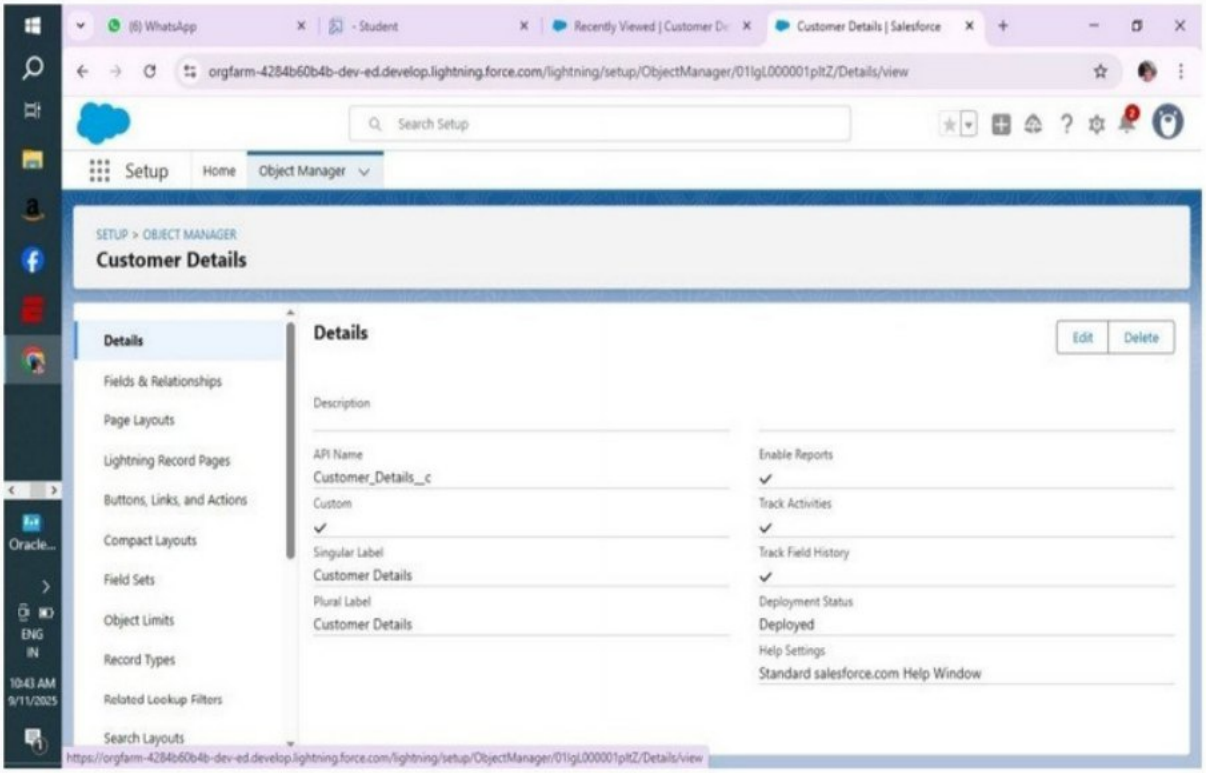
# DEVELOPMENT PHASE

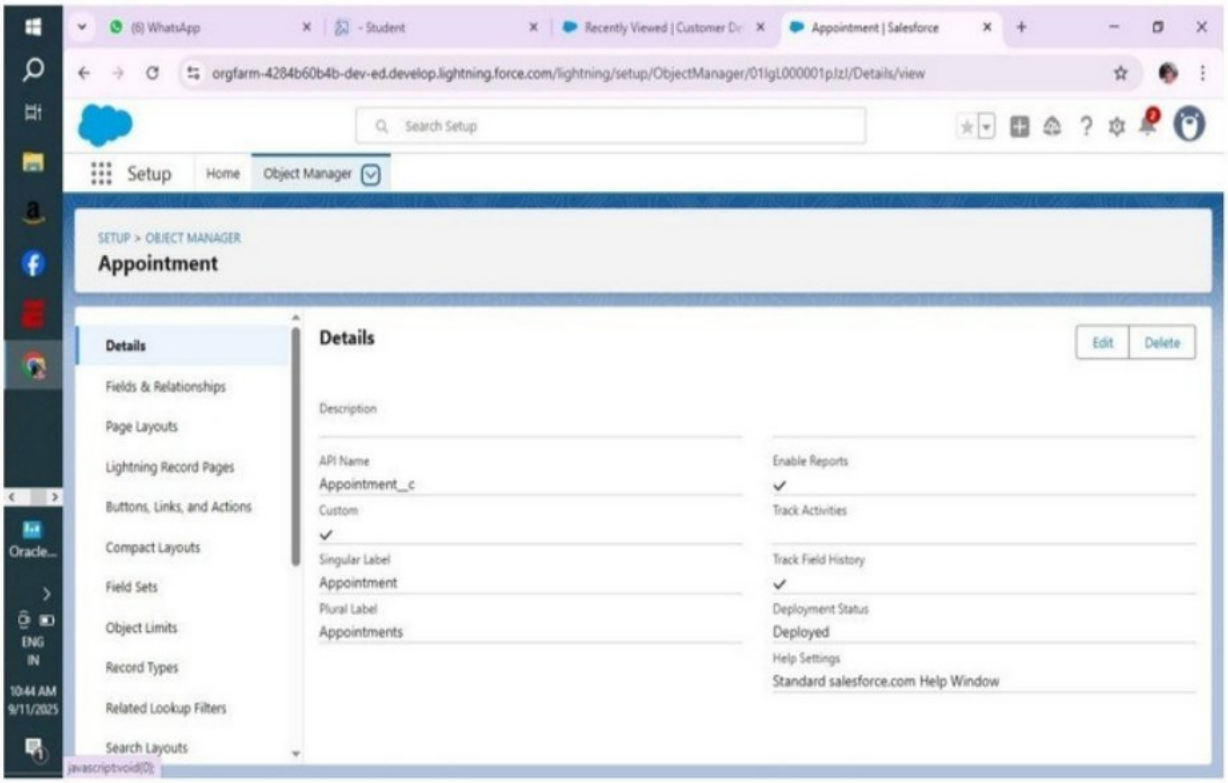
**Creating Developer Account:**

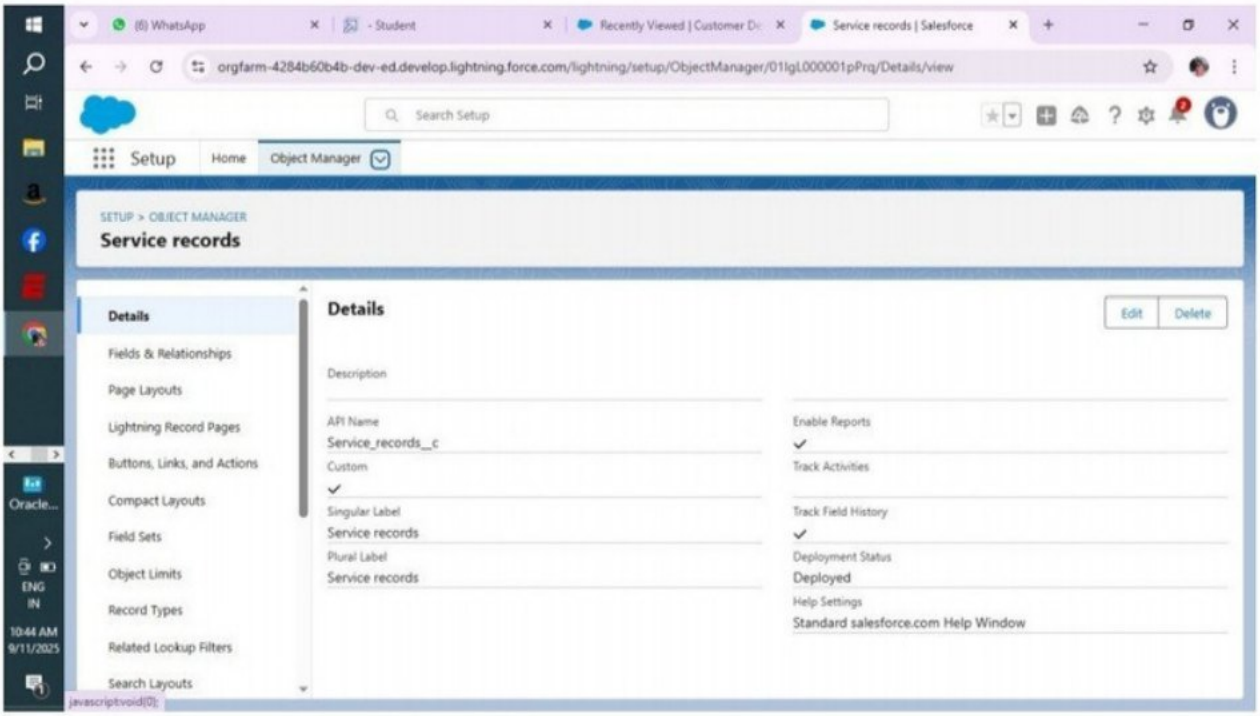
By using this URL - **https://www.salesforce.com/form/developer-signup/?d=pb**



- Created objects: Customer Detaill, Appointment,,Service Record, Billing Details And Feedback

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Service records
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
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Track Activities
Track Field History
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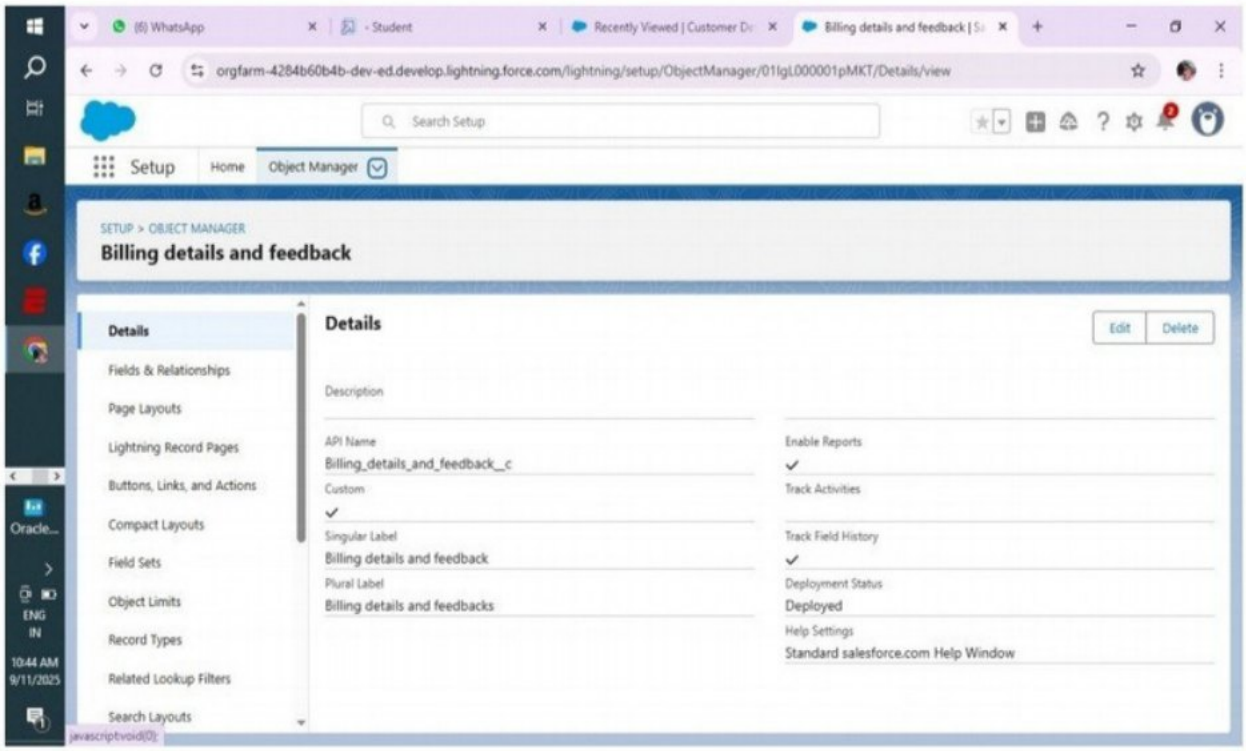
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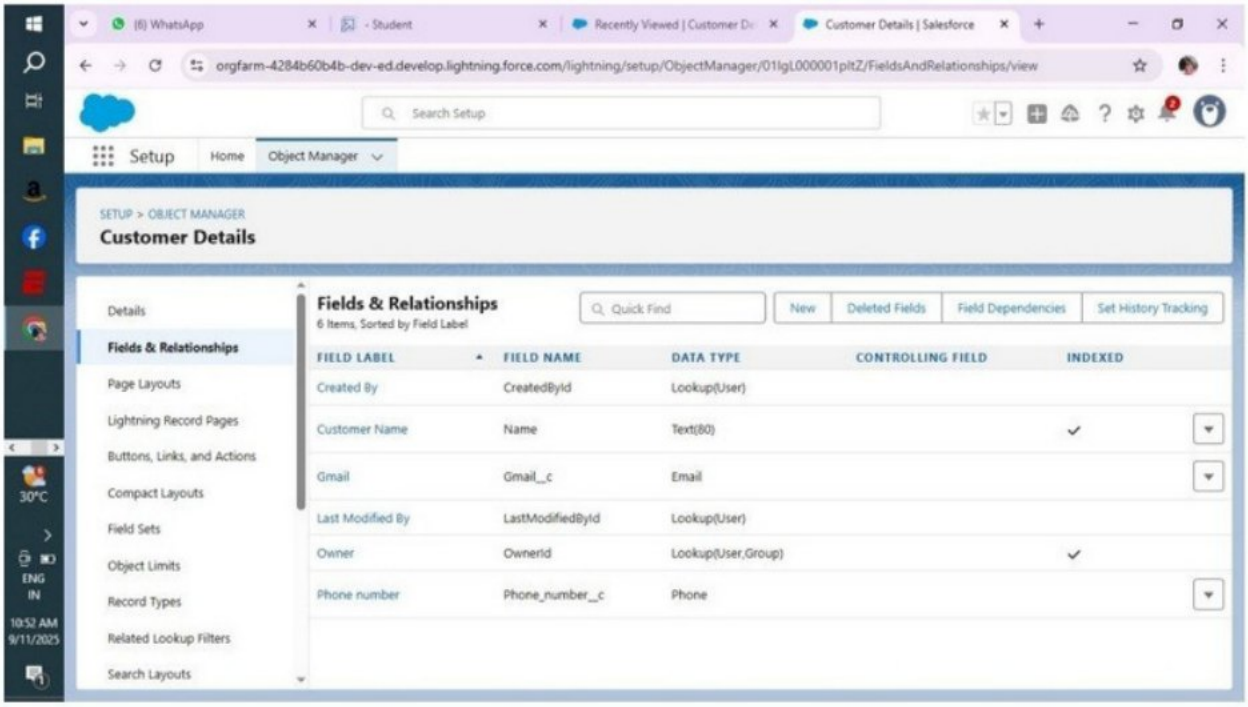
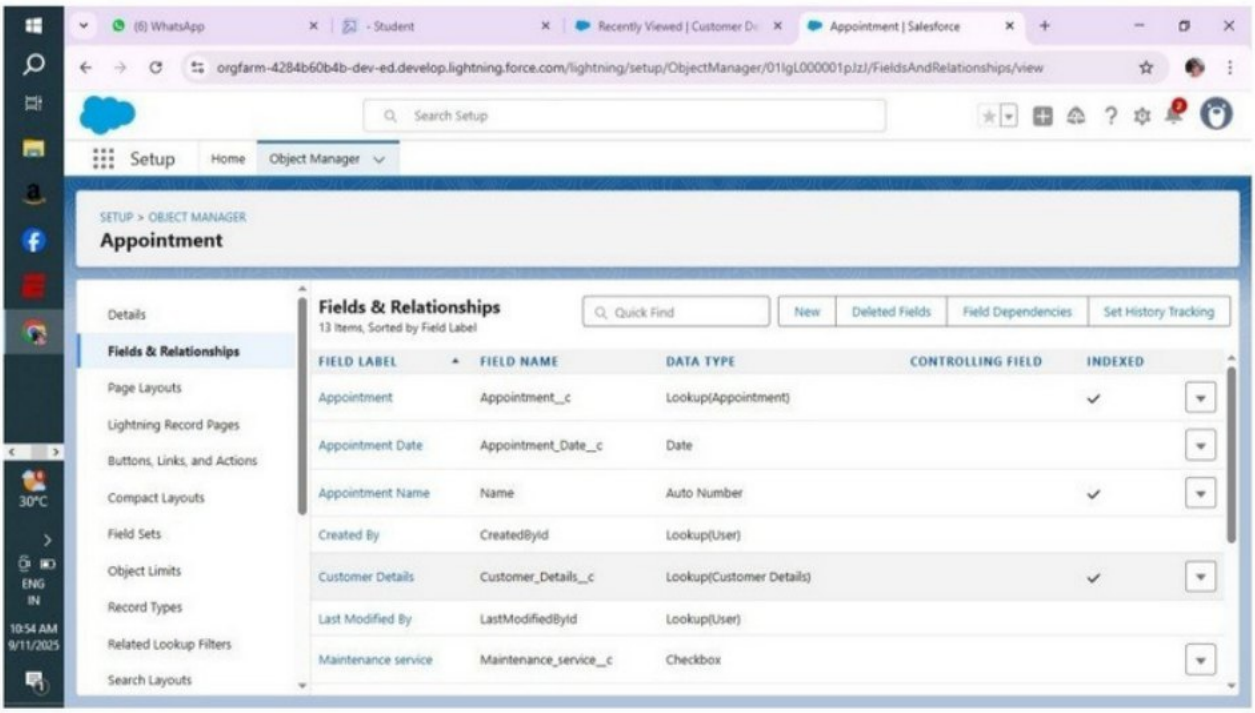
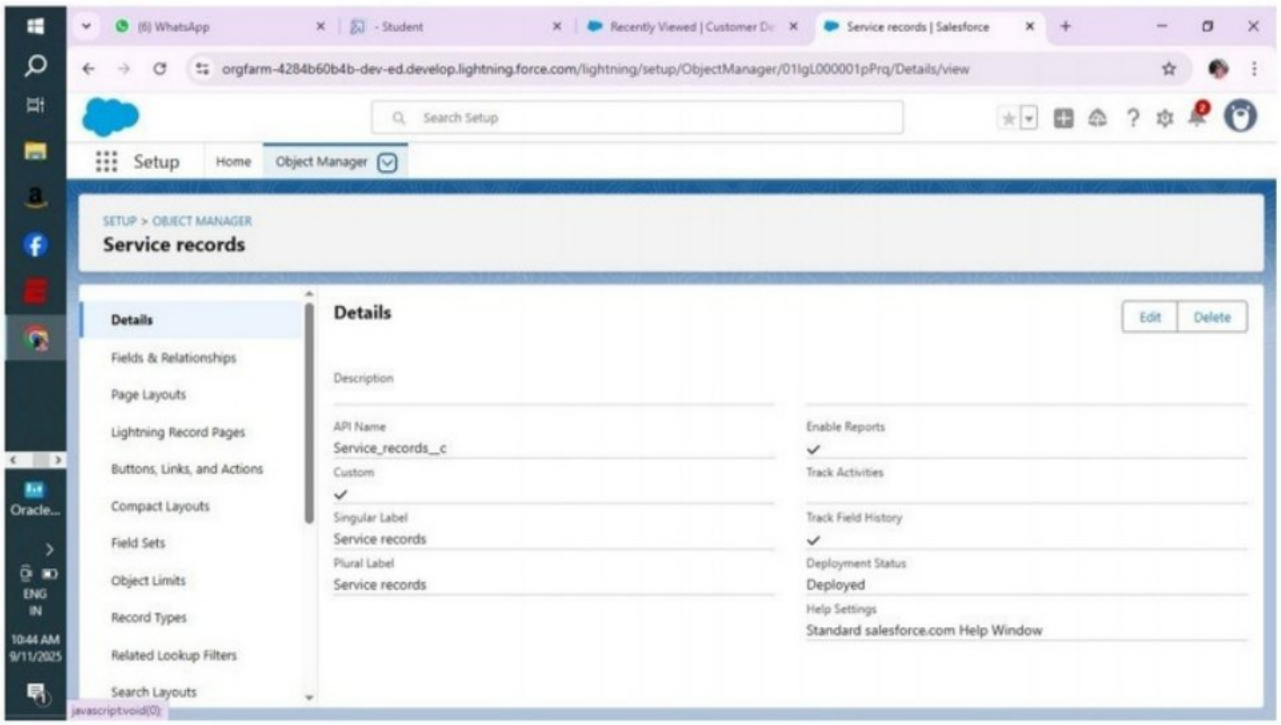
- Configured fields and relationships

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Service records
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Page Layouts
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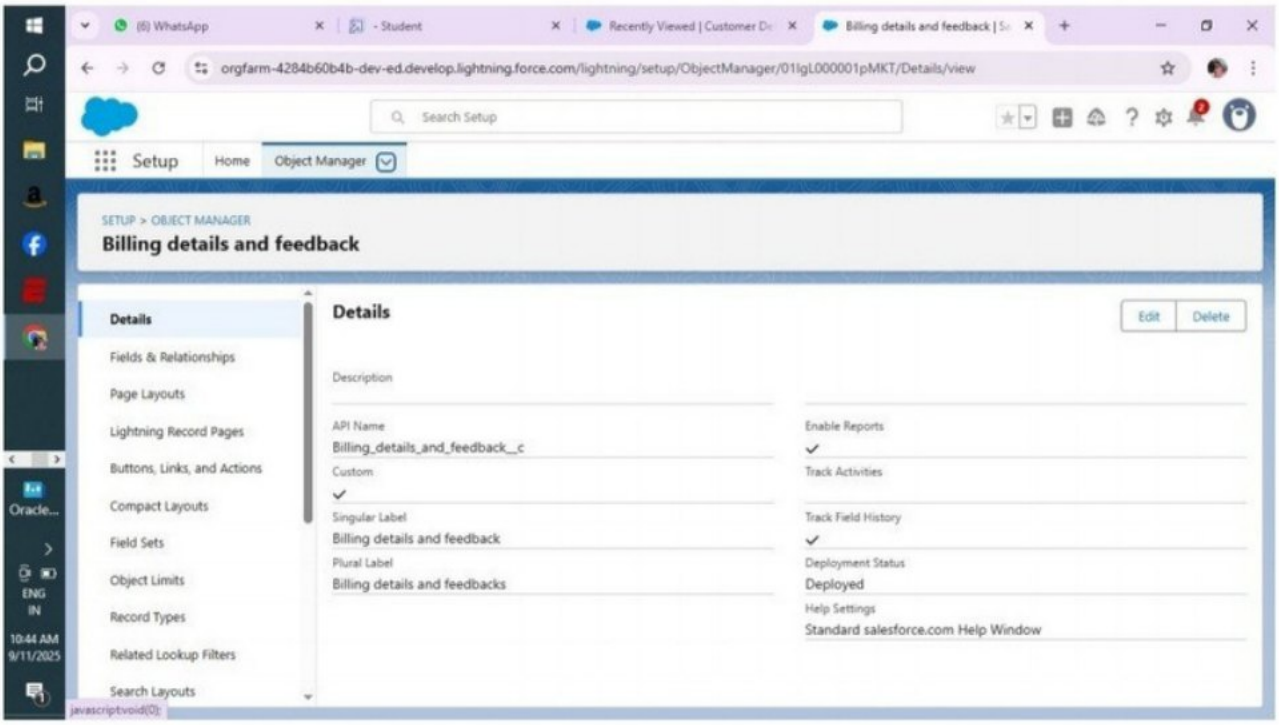
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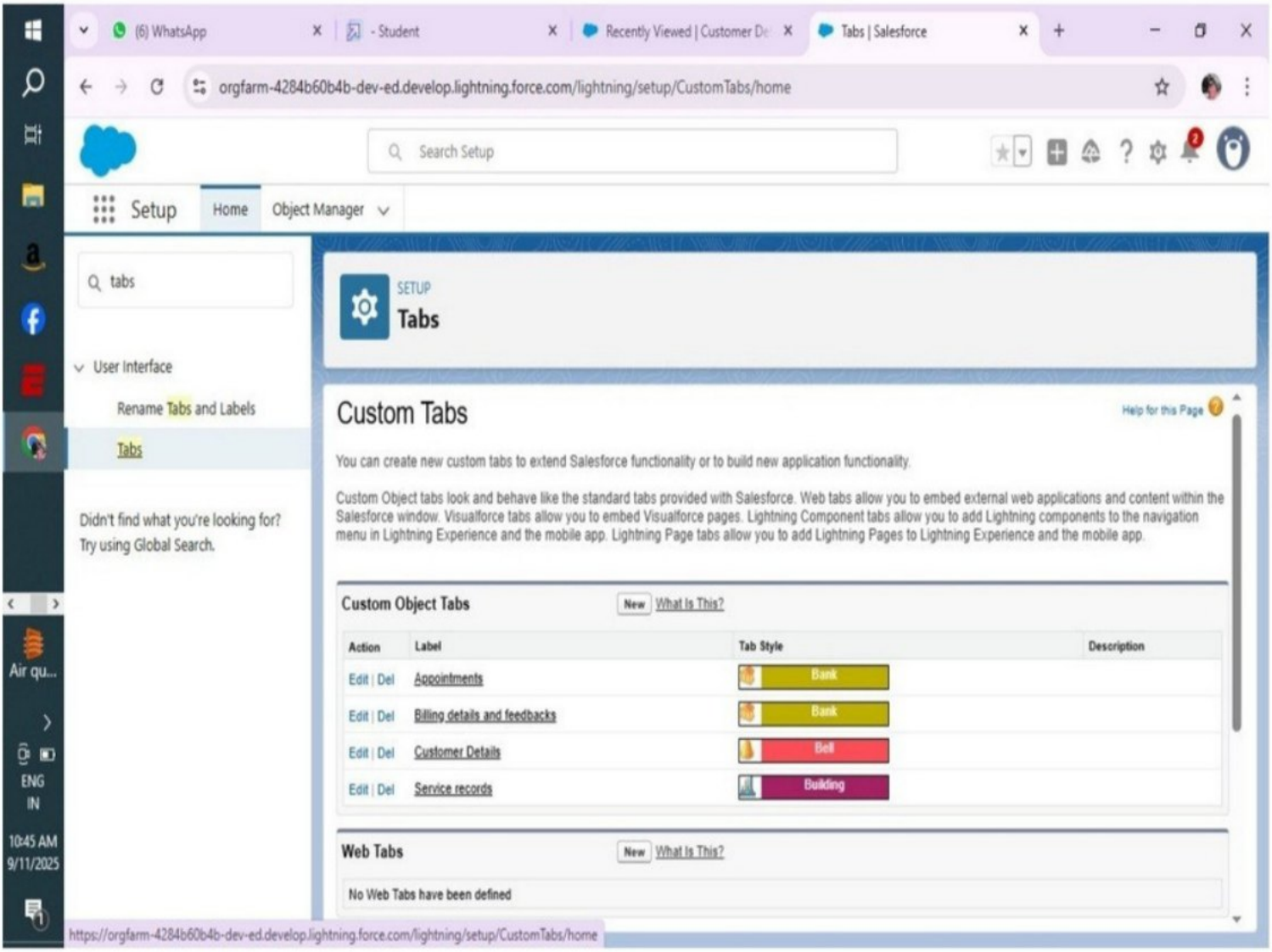
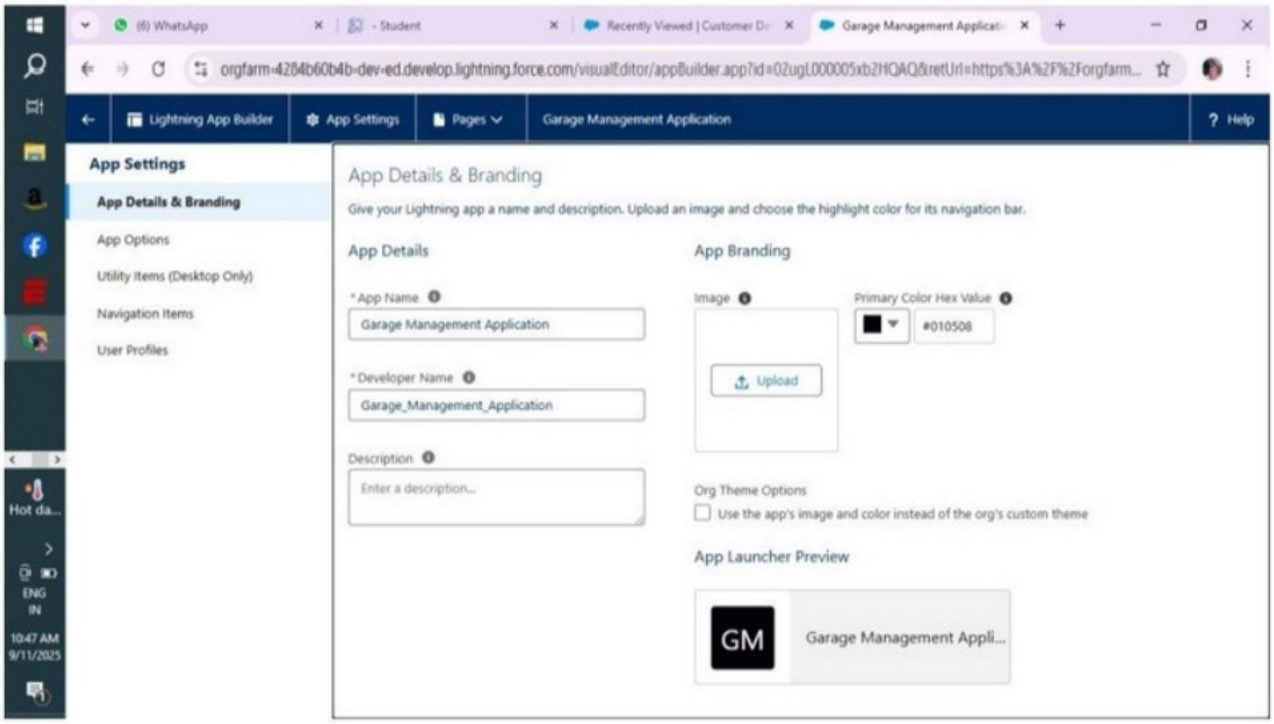
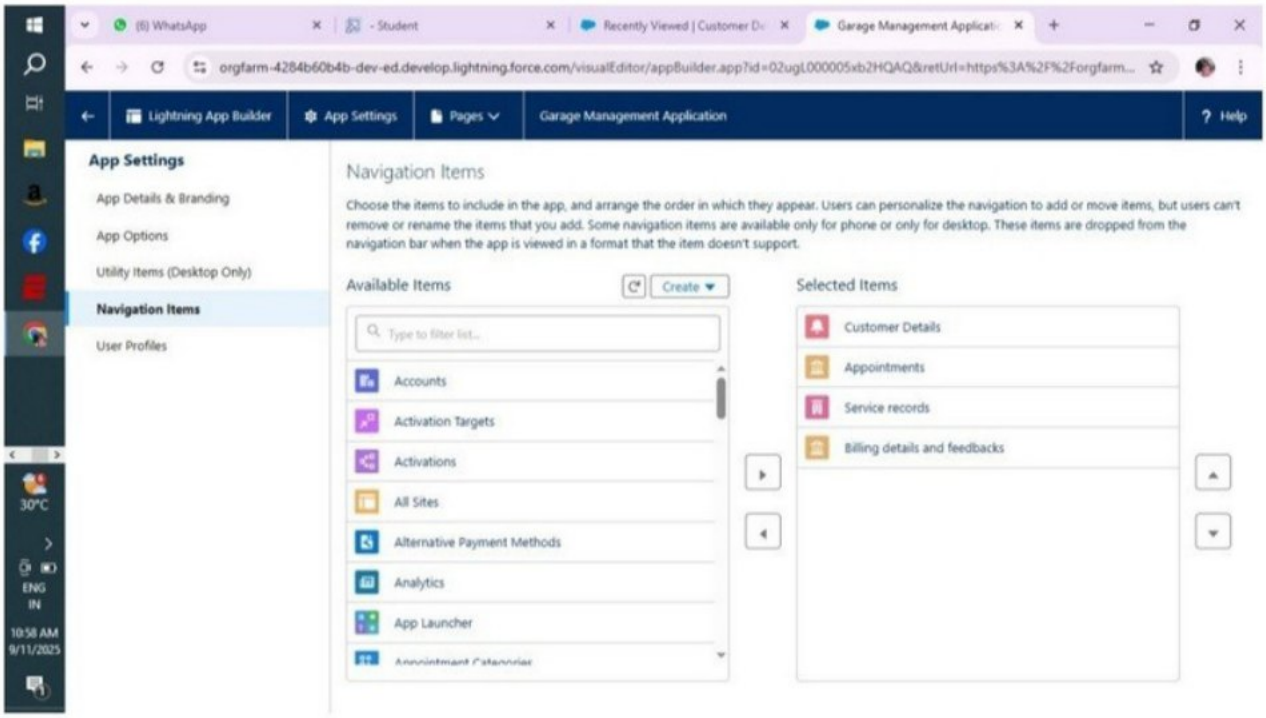
- Tabs

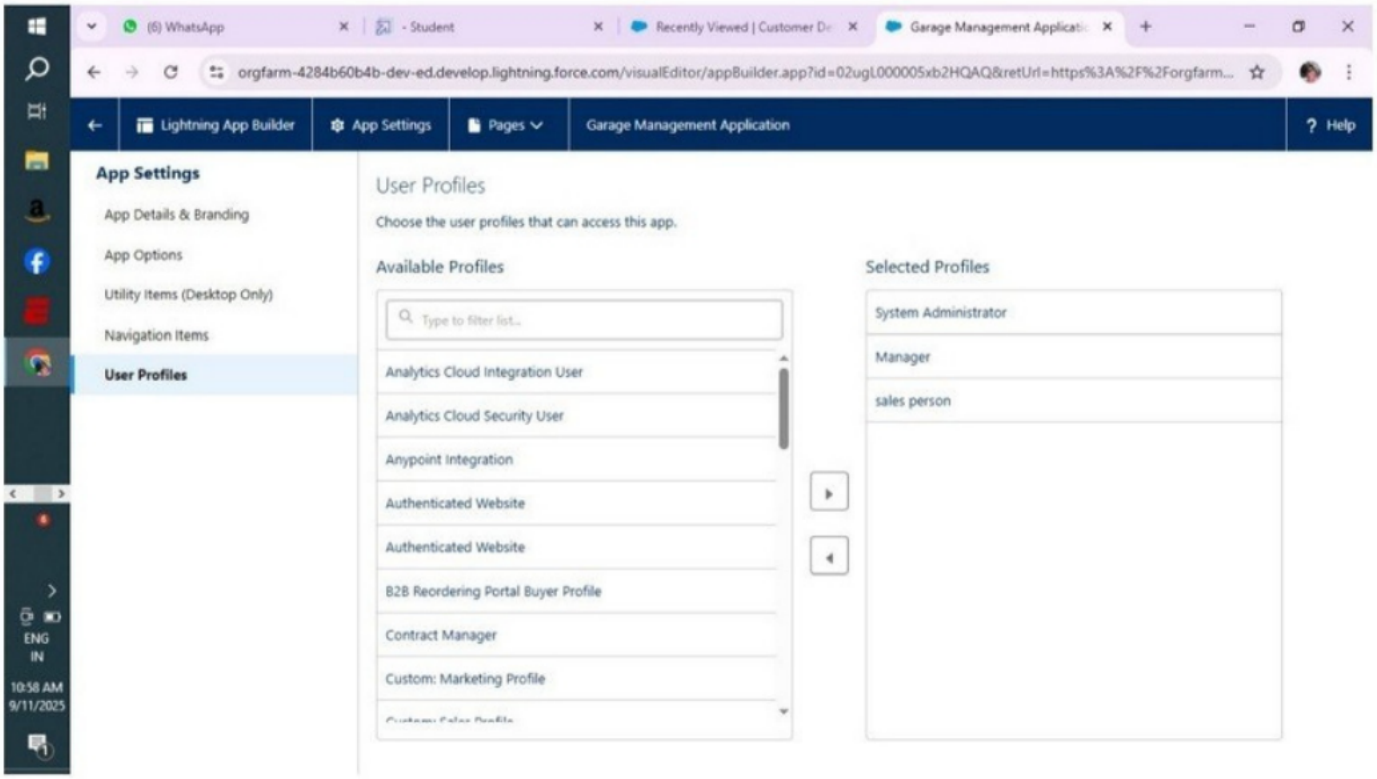
Steps to create custom tabs for easy navigation within the Salesforce app.



- Developed Lightning App with relevant tabs

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Lightning App Builder
App Settings
Pages
Garage Management Application
Help
App Settings
App Details & Branding
App Options
Utility Items (Desktop Only)
Navigation Items
User Profiles
User Profiles
Choose the user profiles that can access this app.
Available Profiles
Type to filter list...
Analytics Cloud Integration User
Analytics Cloud Security User
Anypoint Integration
Authenticated Website
Authenticated Website
B2B Reordering Portal Buyer Profile
Contract Manager
Custom: Marketing Profile
Selected Profiles
System Administrator
Manager
sales person
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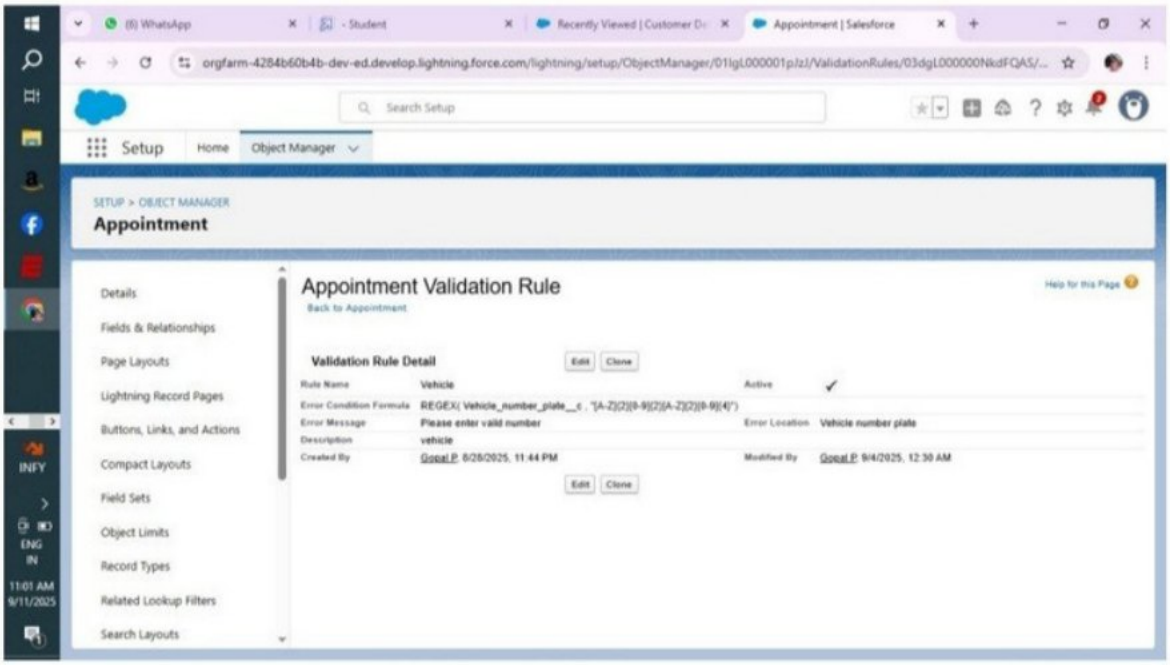
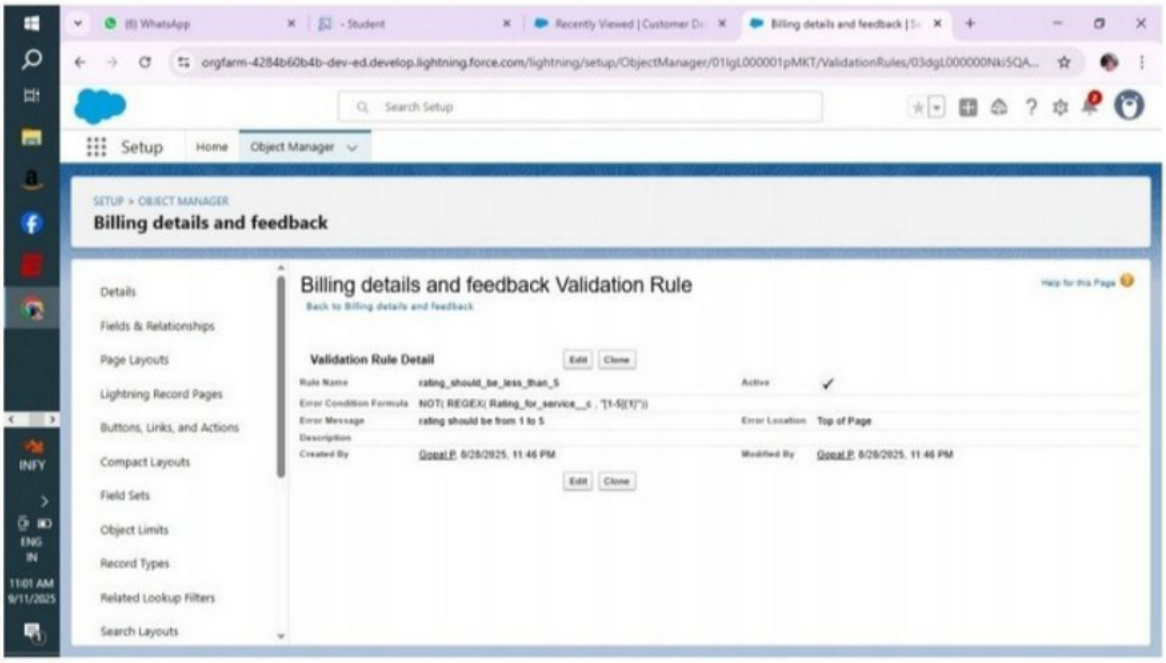
## ● Validation Rules

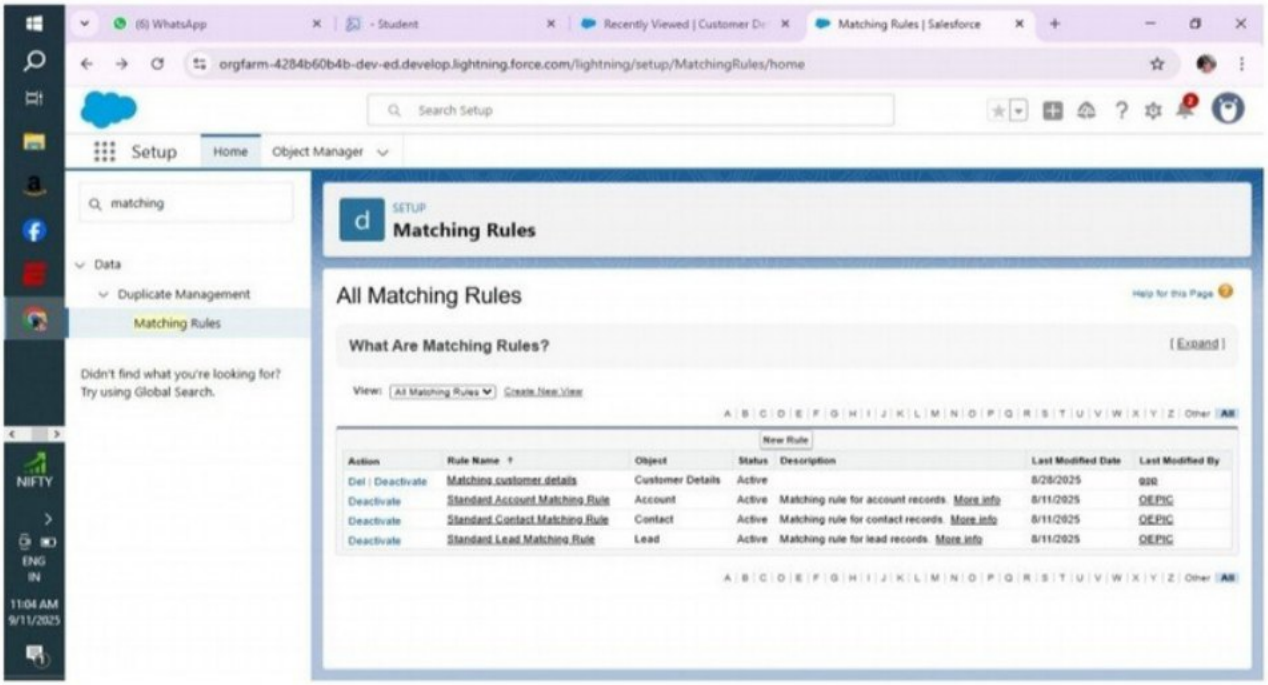
Validation rules ensure data accuracy and consistency in the garage management system.

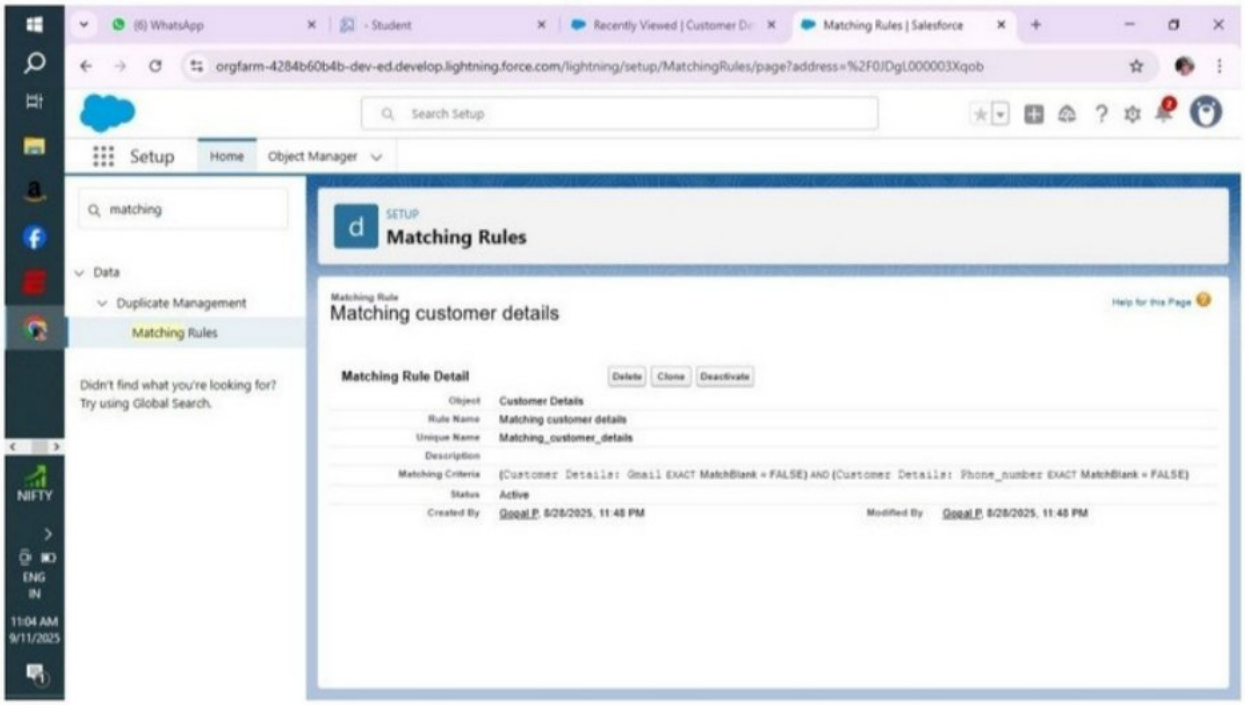


- Duplicate Rules

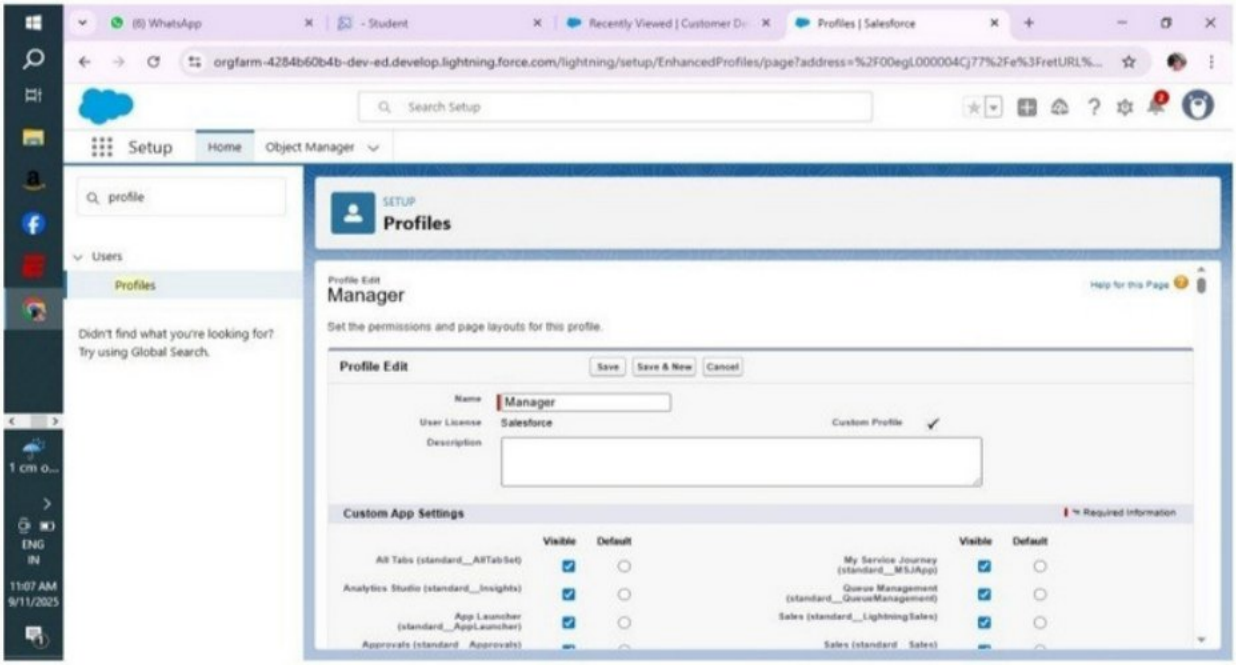
Duplicate rules are conditions set to identify and prevent the creation of duplicate records

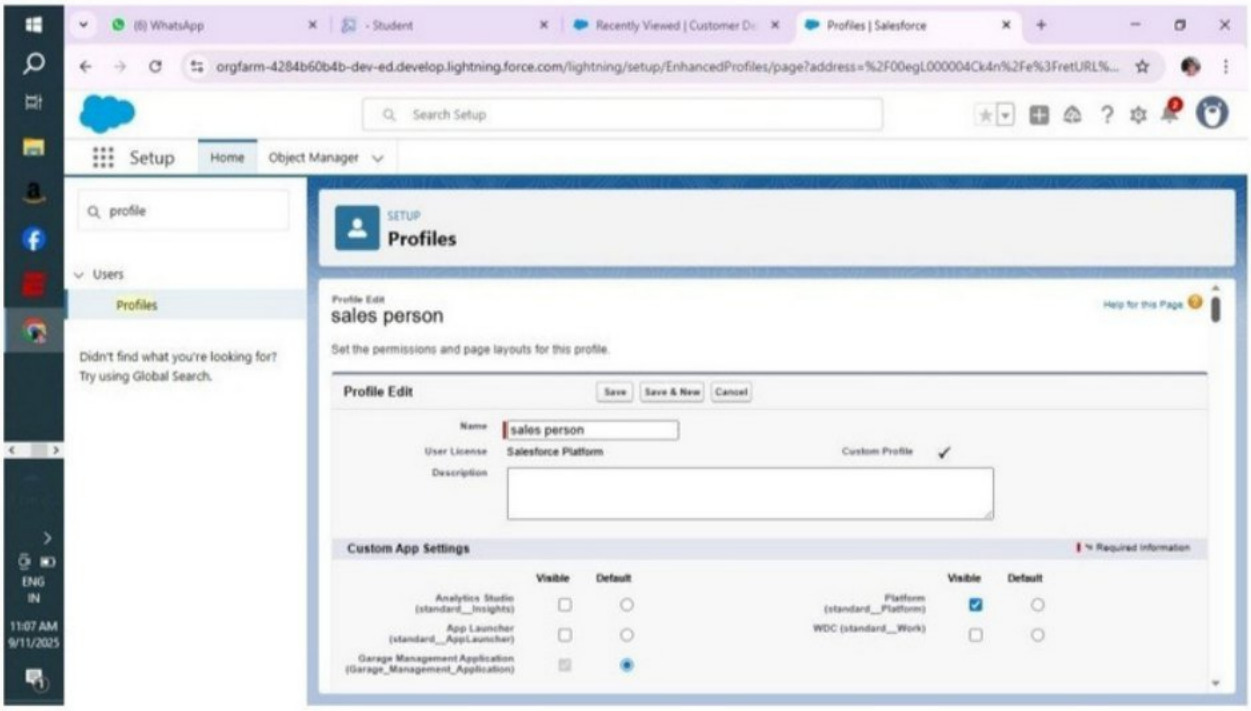


## ● Profile

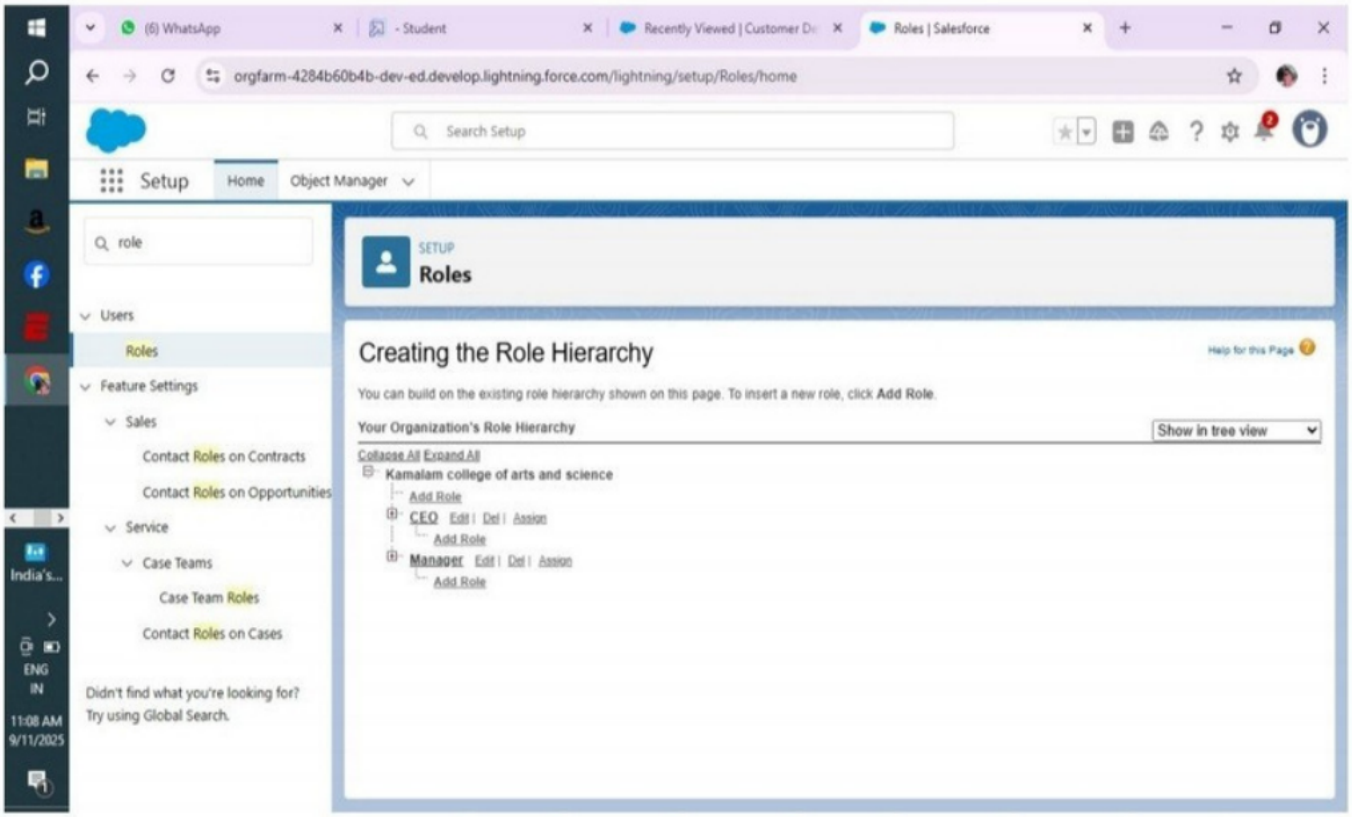
A profile is a collection of settings and permissions that define what a user can do within the garage management system



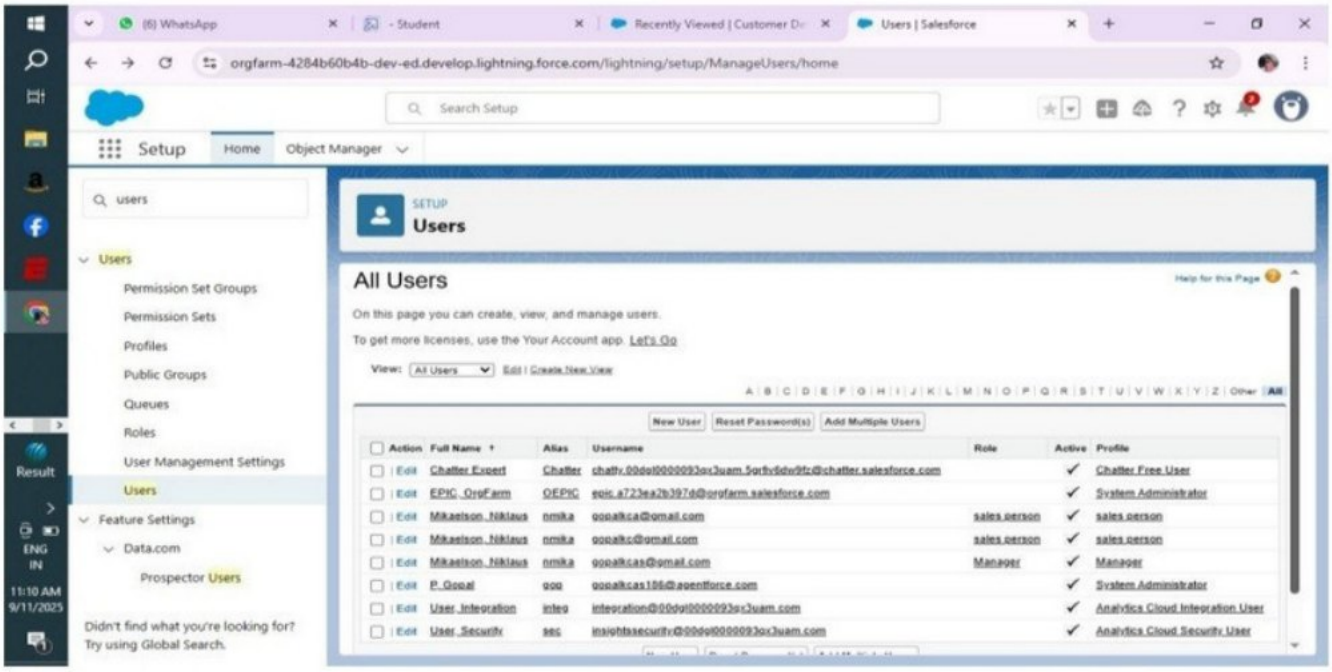
- Role Role& Hierarchy

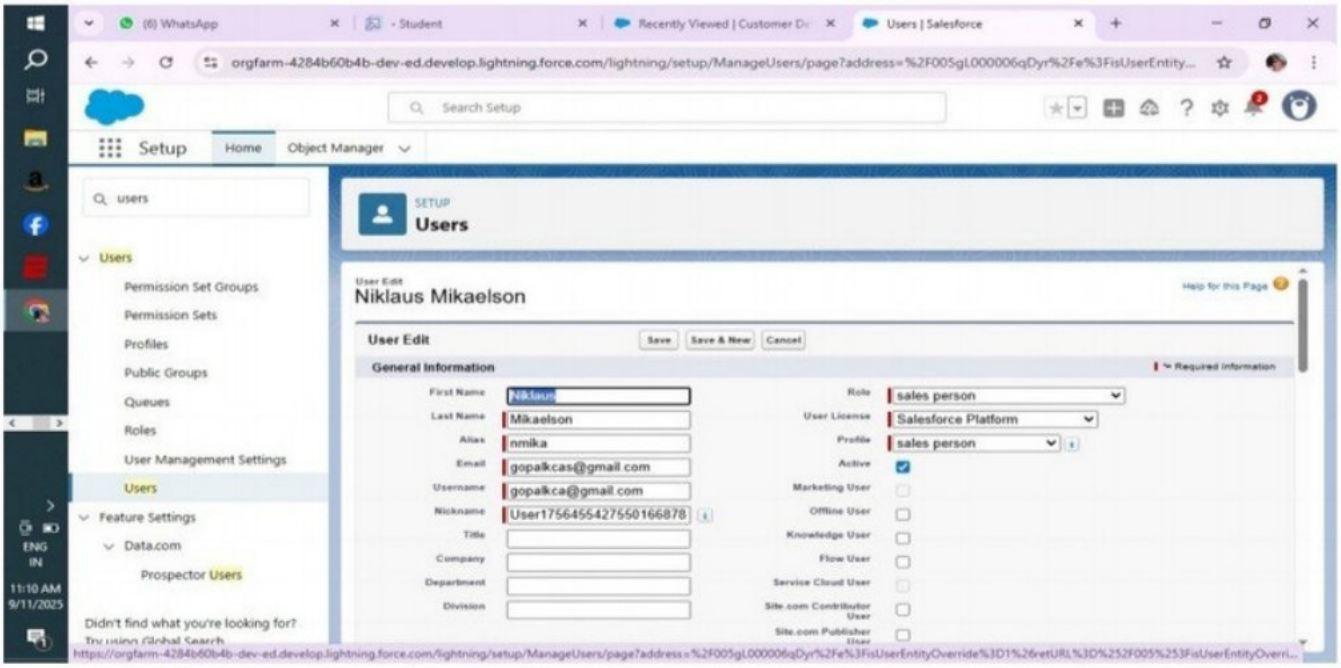
Determines which records a user can view, edit, or share based on their position in the garage hierarchy.



## ● Users

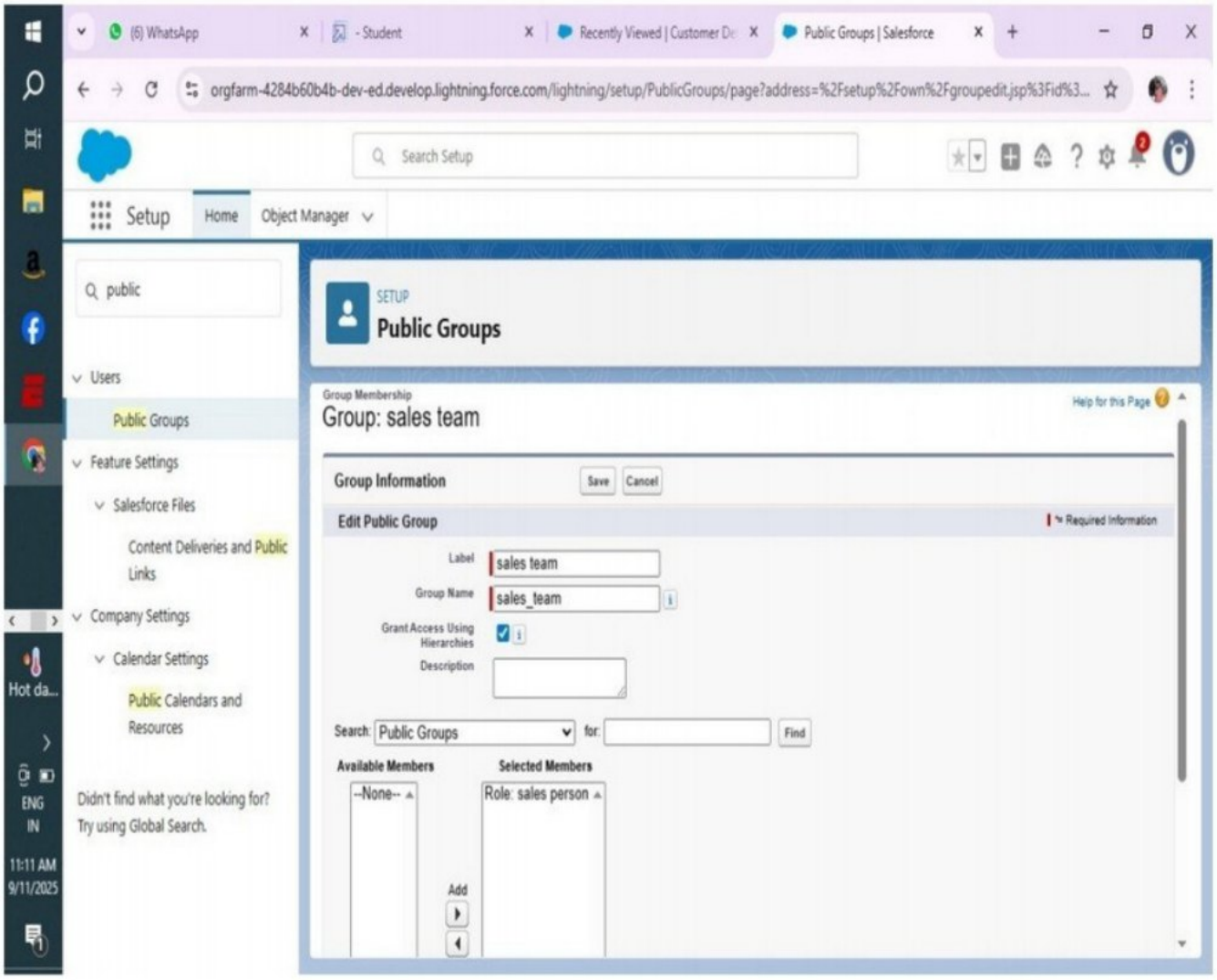
A user is an individual who has login access to the garage management system.



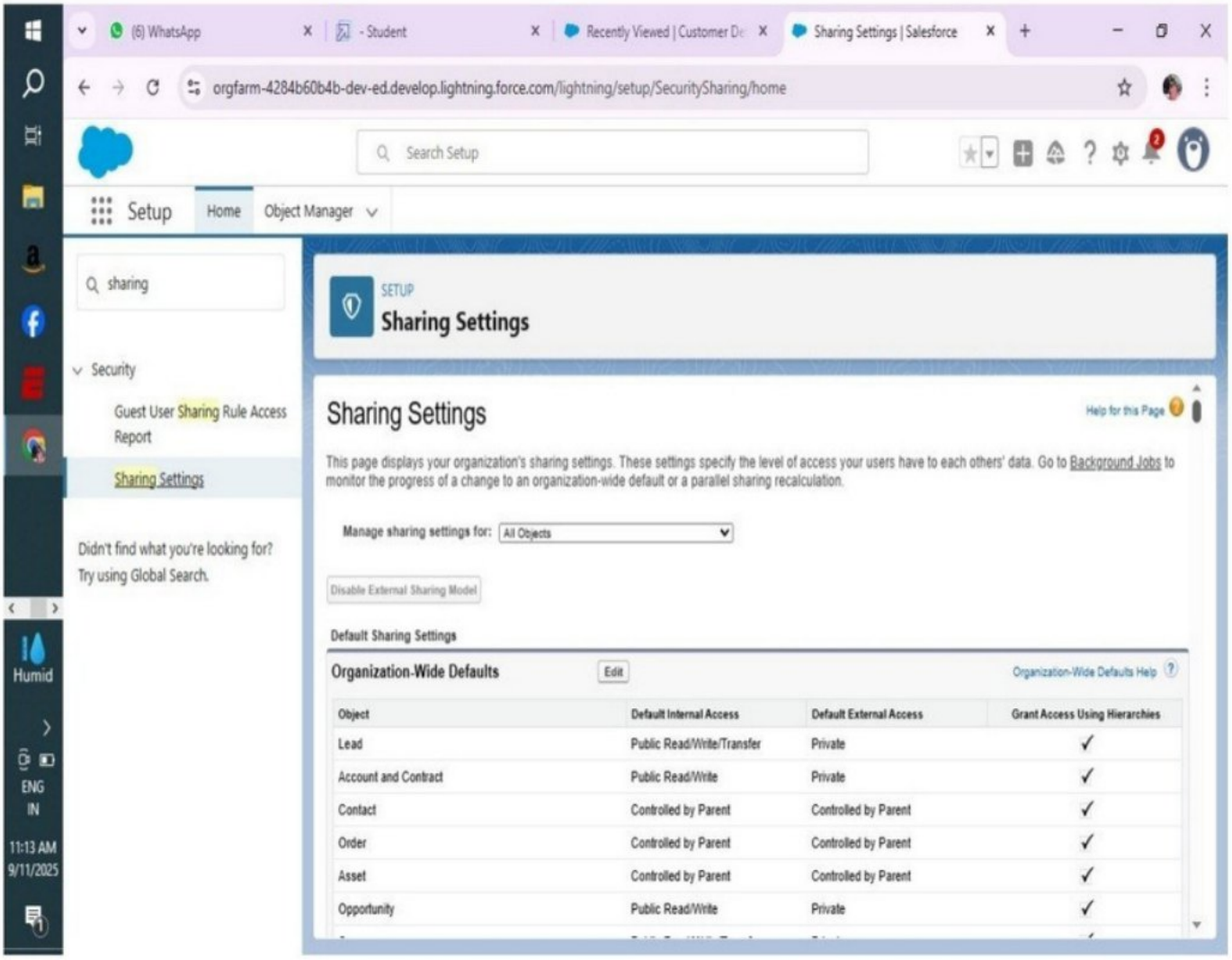
- Public Group

A public group is a collection of users, roles, and other groups combined to simplify sharing and permission management

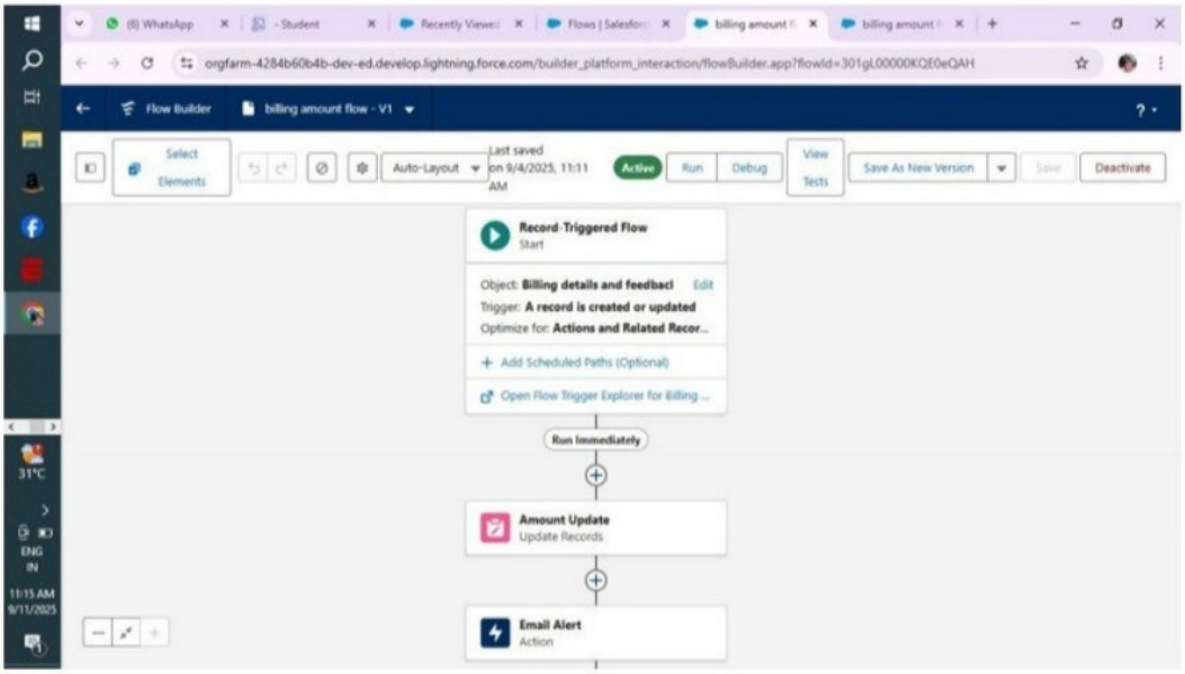


- Sharing Settings

Sharing settings control the visibility and access level of records (like customer details, vehicle data, service history) among users in the garage management system.



- FLOWS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Flow Builder
billing amount flow - V1
Select Elements
Auto-Layout
Last saved on 9/4/2025, 11:11 AM
Active
Run
Debug
View Tests
Save As New Version
Save
Deactivate
Record-Triggered Flow
Start
Object: Billing details and feedbacl
Edit
Trigger: A record is created or updated
Optimize for: Actions and Related Recor...
Add Scheduled Paths (Optional)
Open Flow Trigger Explorer for Billing ...
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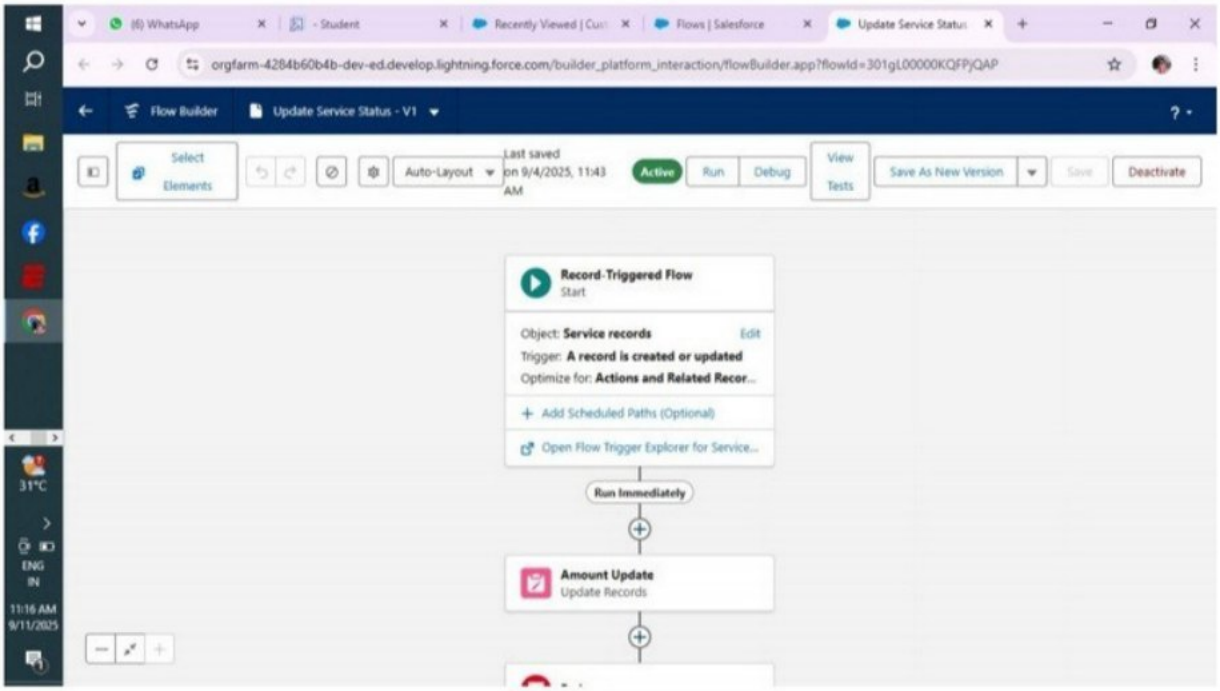
Amount Update
Update Records
Email Alert
Action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Flow Builder
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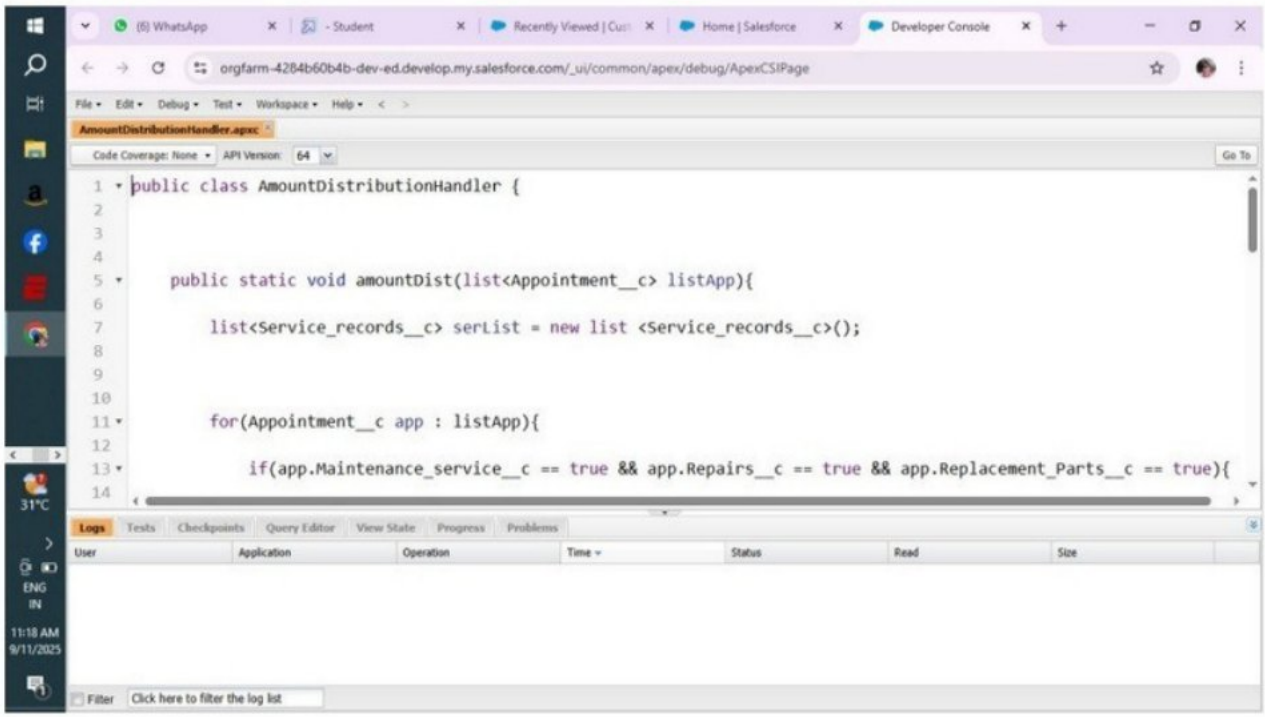
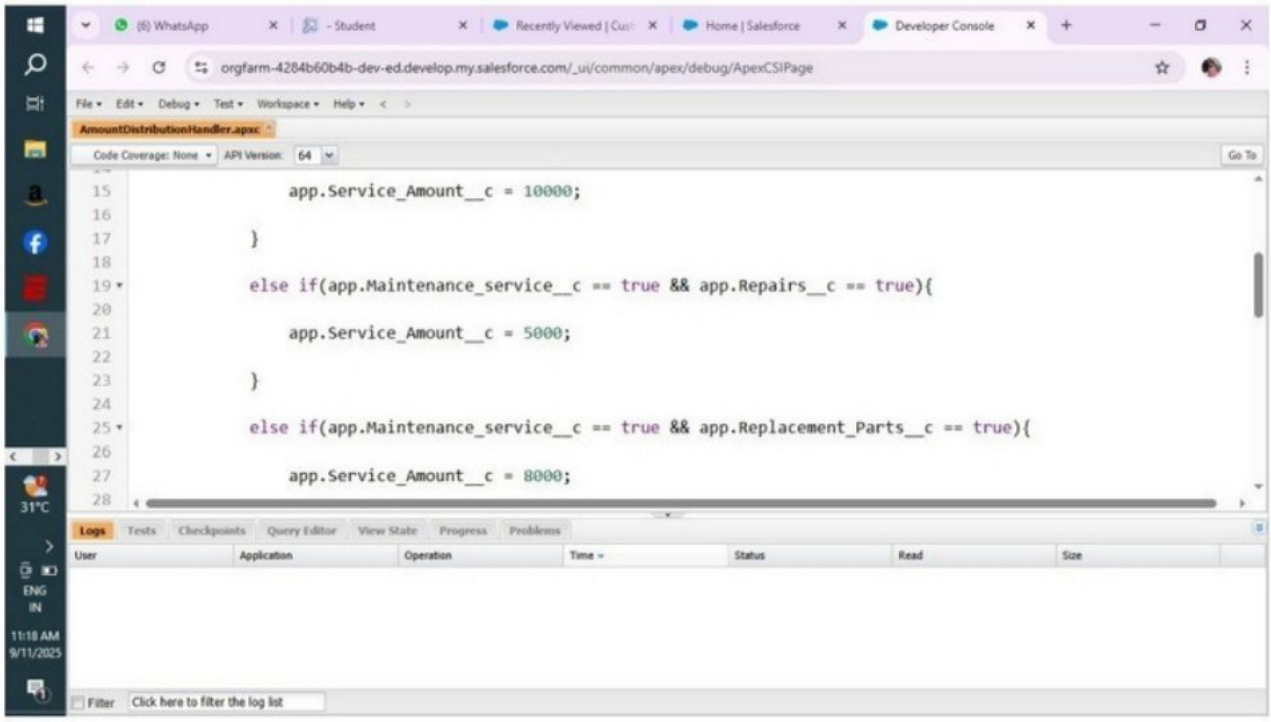
Select Elements
Auto-Layout
Last saved on 9/4/2025, 11:43 AM
Active
Run
Debug
View Tests
Save As New Version
Save
Deactivate
Record-Triggered Flow
Start
Object: Service records
Edit
Trigger: A record is created or updated
Optimize for: Actions and Related Recor...
Add Scheduled Paths (Optional)
Open Flow Trigger Explorer for Service...
Run Immediately
Amount Update
Update Records

## Apex Trigger

To automate business logic such as updating records, validating data, or sending notifications when certain conditions are met.



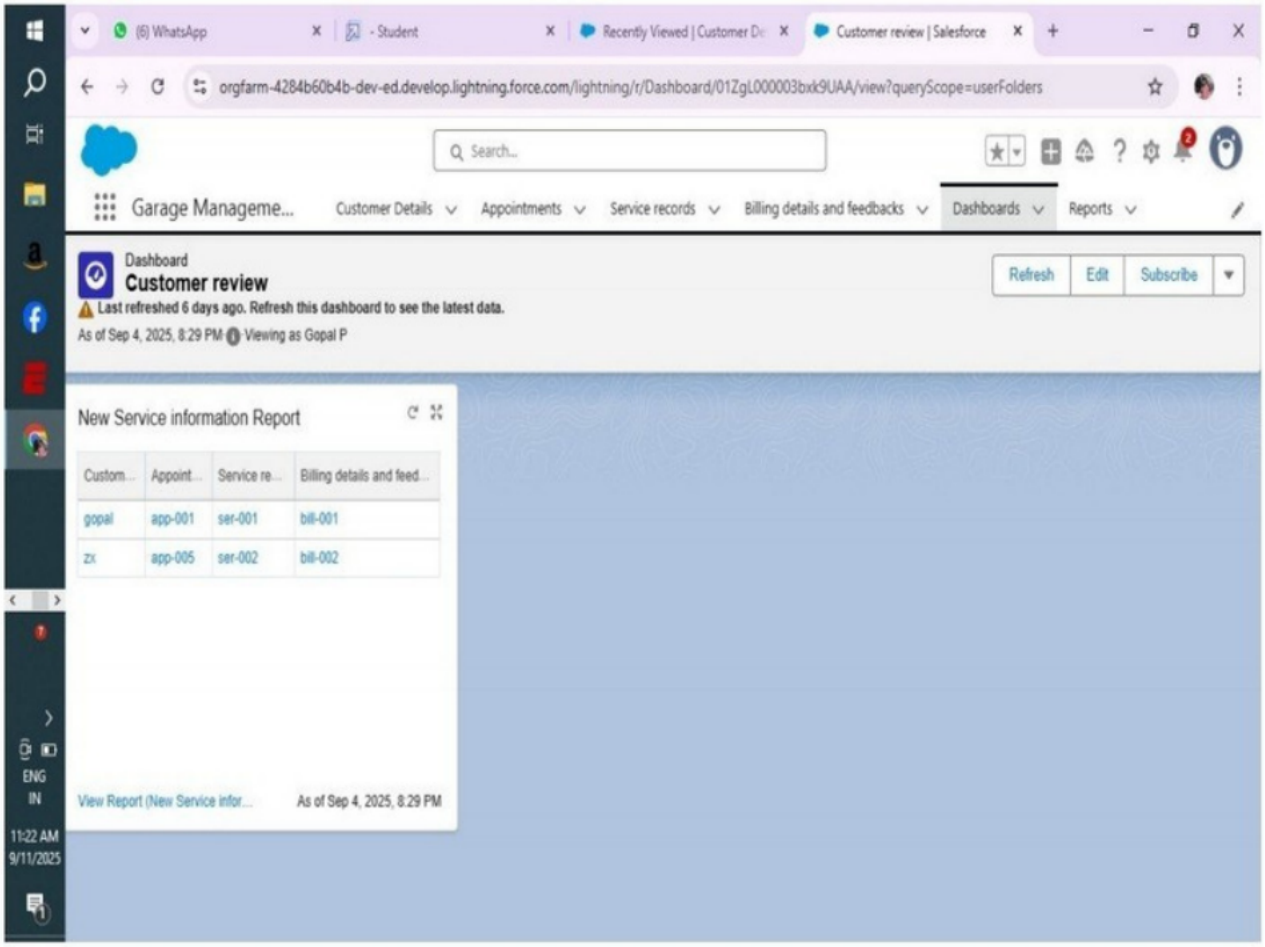



```
        }

        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;

        }
```

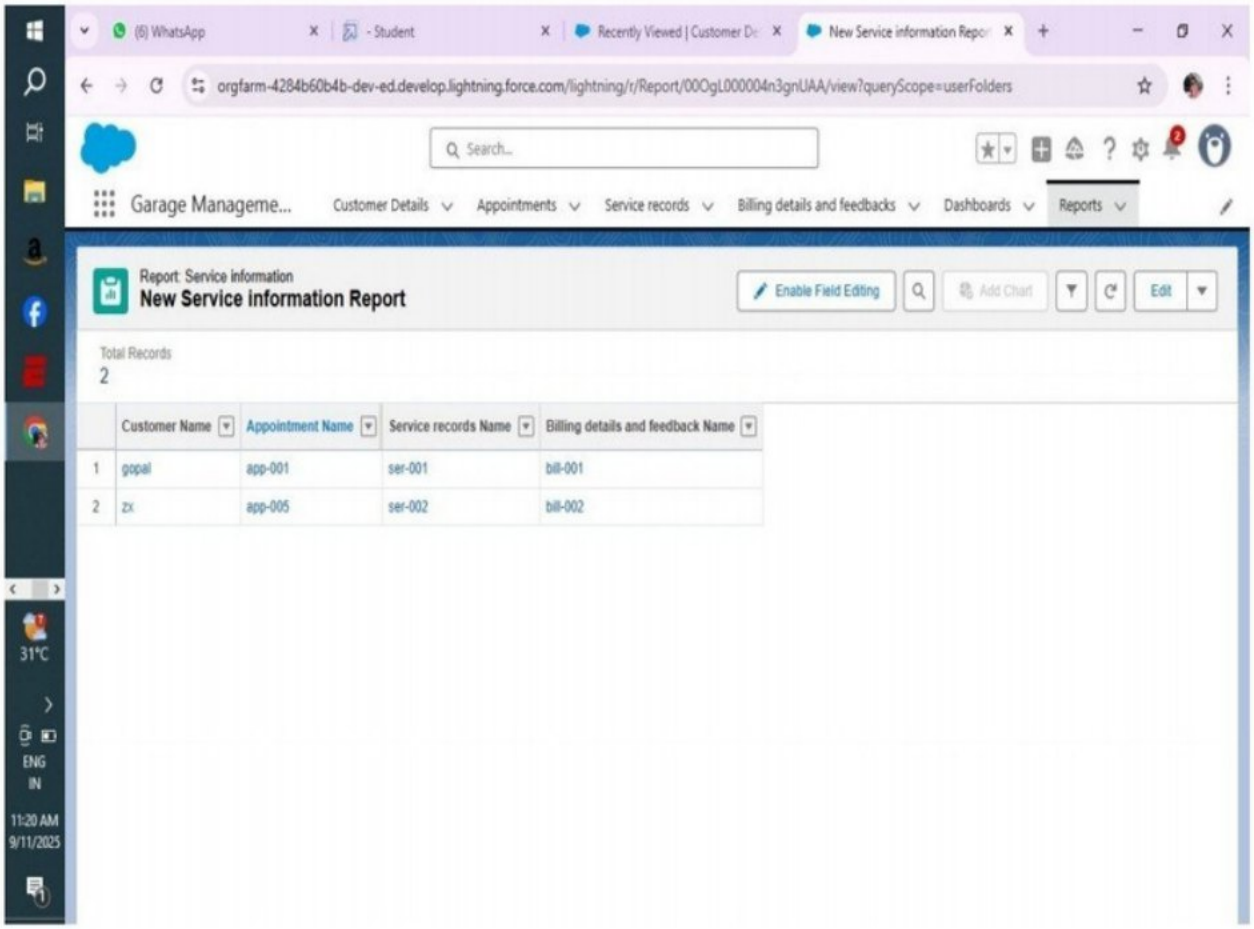
- Dashboard

A dashboard is a visual display of key metrics, reports, and data in the garage management system. It helps managers and staff quickly monitor performance and take decisions.



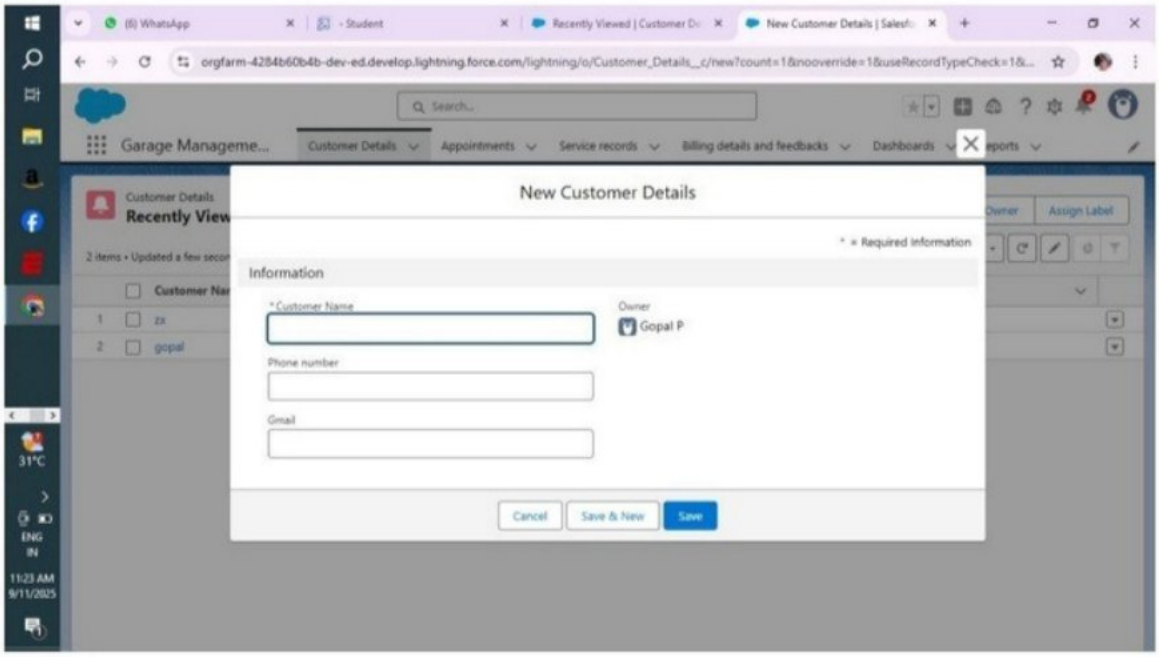
## Report

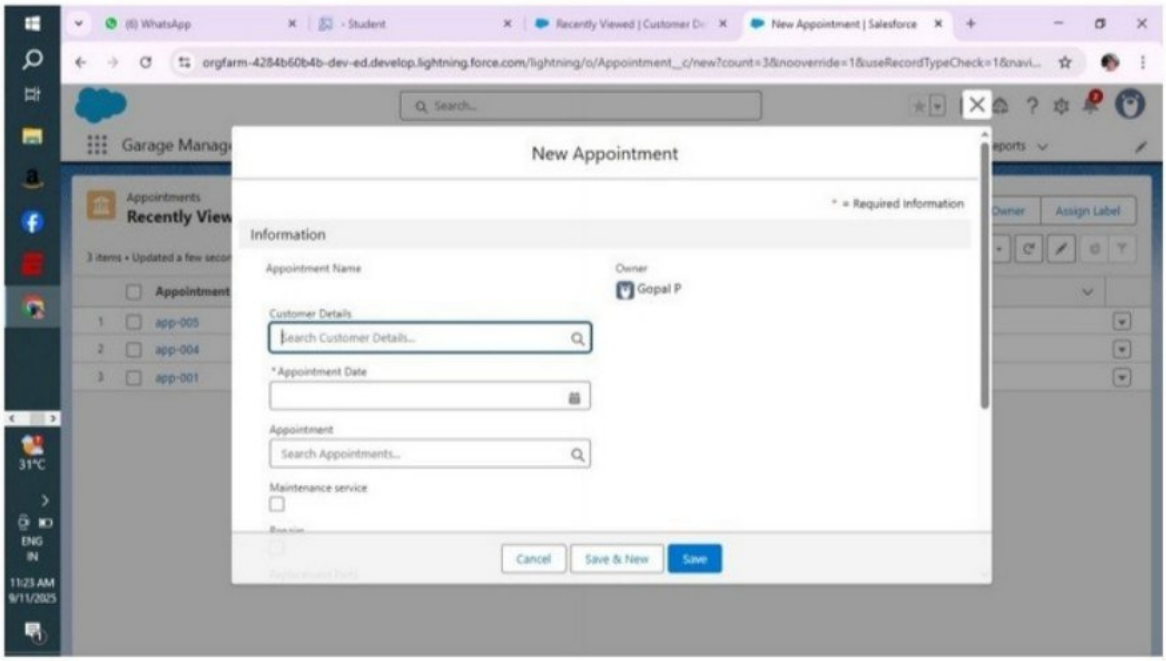
A report is a structured presentation of garage data (customers, vehicles, services, inventory, revenue) generated from the system for analysis and decision-making.

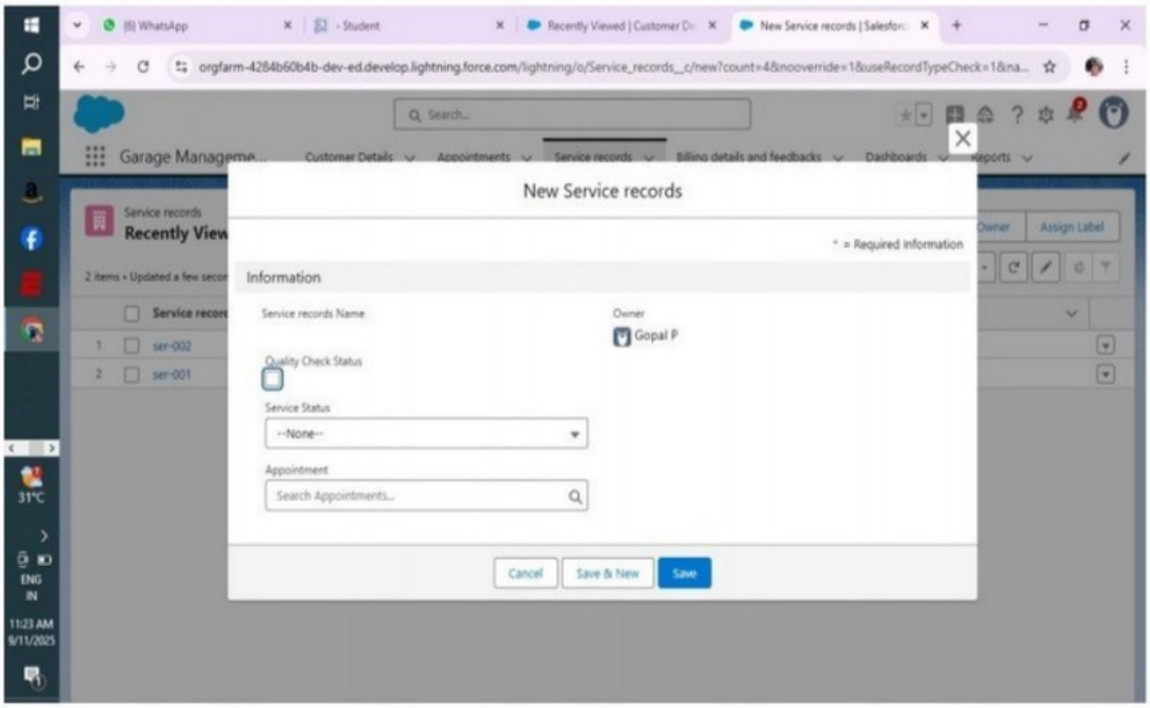


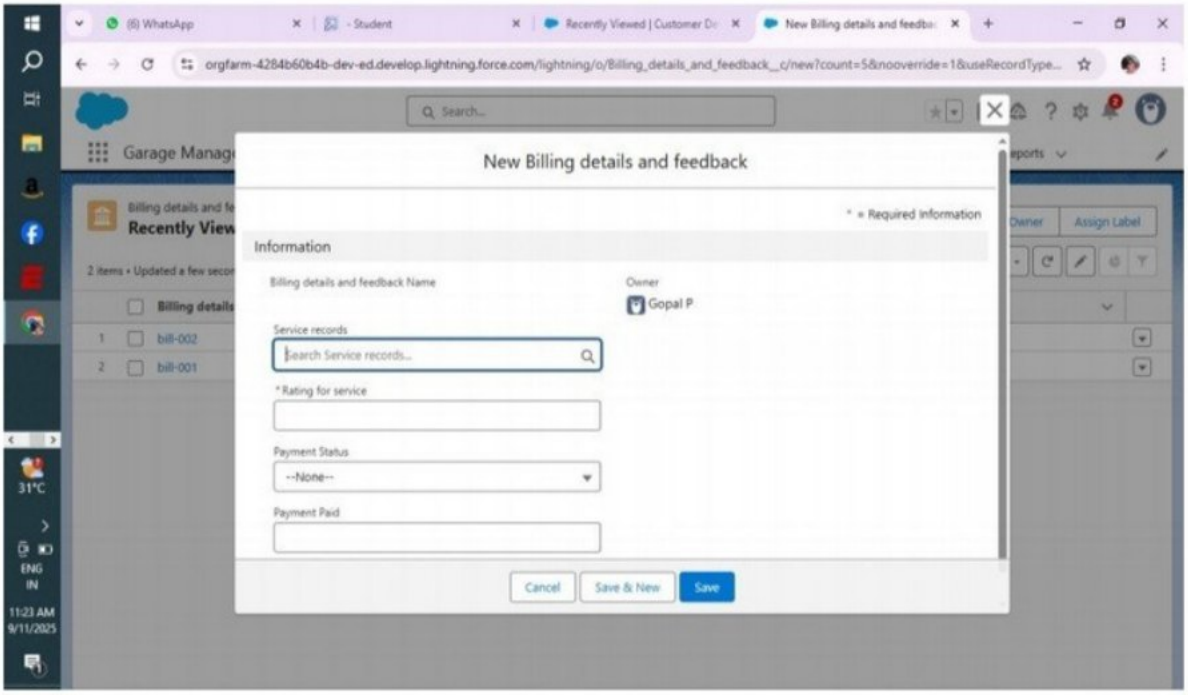
## User Adoption

User adoption refers to how effectively employees, mechanics, managers, and service advisors start using the garage management system in their daily work




New Service records
* = Required Information
Information
Service records Name
Owner
Gopal P
Quality Check Status
Service Status
--None--
Appointment
Search Appointments...
Cancel
Save & New
Save


New Billing details and feedback
* = Required Information
Information
Billing details and feedback Name
Owner
Gopal P
Service records
Search Service records...
* Rating for service
Payment Status
--None--
Payment Paid
Cancel
Save & New
Save

# CONCLUSION

A Garage Management System is a comprehensive solution designed to streamline and digitalize the daily operations of a garage or automobile service center. It helps manage customer information, vehicle records, service history, spare parts inventory, billing, and staff activities in an organized way. By automating tasks, it reduces manual errors, improves efficiency, and saves time for both customers and service providers.

APPENDIX

- Source Code: Provided in Apex Triggers

```
trigger
DropOffTrigger
 on Drop_Off_
point__c
(before insert)
 {

    for(Drop_
Off_point__c
Drop : Trigger.
new){

        Drop.
Distance__c =
 Drop.distance
_calculation__
c;

    }
```