GARAGE MANAGEMENT SYSTEM

College Name: CHIKKANNA GOVERNMENT ARTS COLLEGE

College Code:Bru06

TEAM ID: NM2025TMID26218

TEAM MEMBERS:

- Team Leader: Logendran M
  Email: logendranmarimuthu413@gmail.com

- Team Member: Deepsheka S
  Email: senthilnathandeepsheka@gmail.com

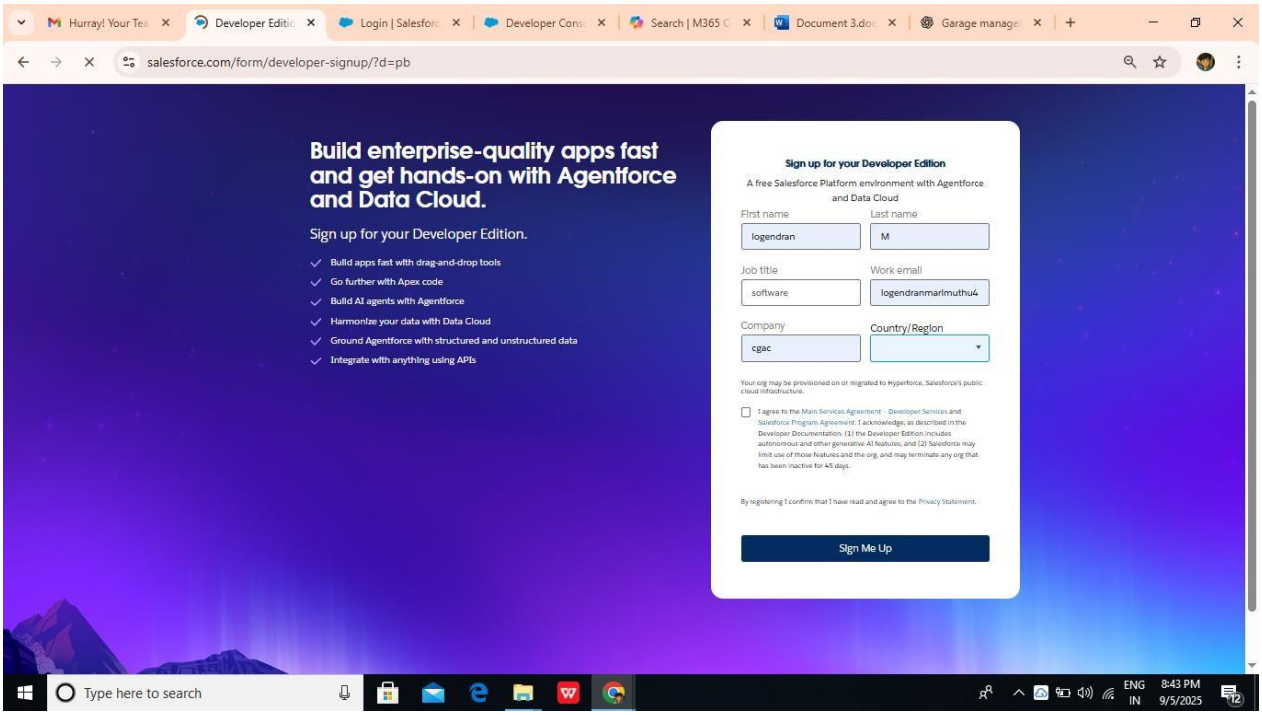
- Team Member: Kaviyarsu V
  Email: kaviyarasu3366@gmail.com

- Team Member: Dhanush A
  Email: dhanu464612@gmail.com

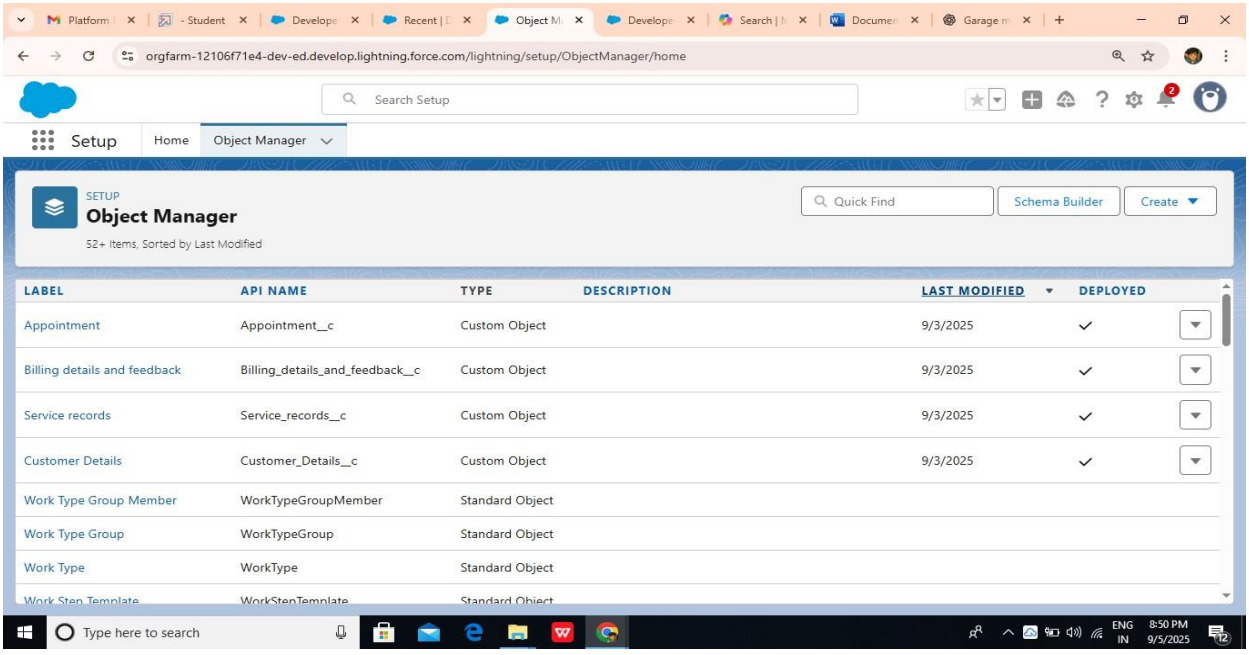
INTRODUCTION:

he 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.

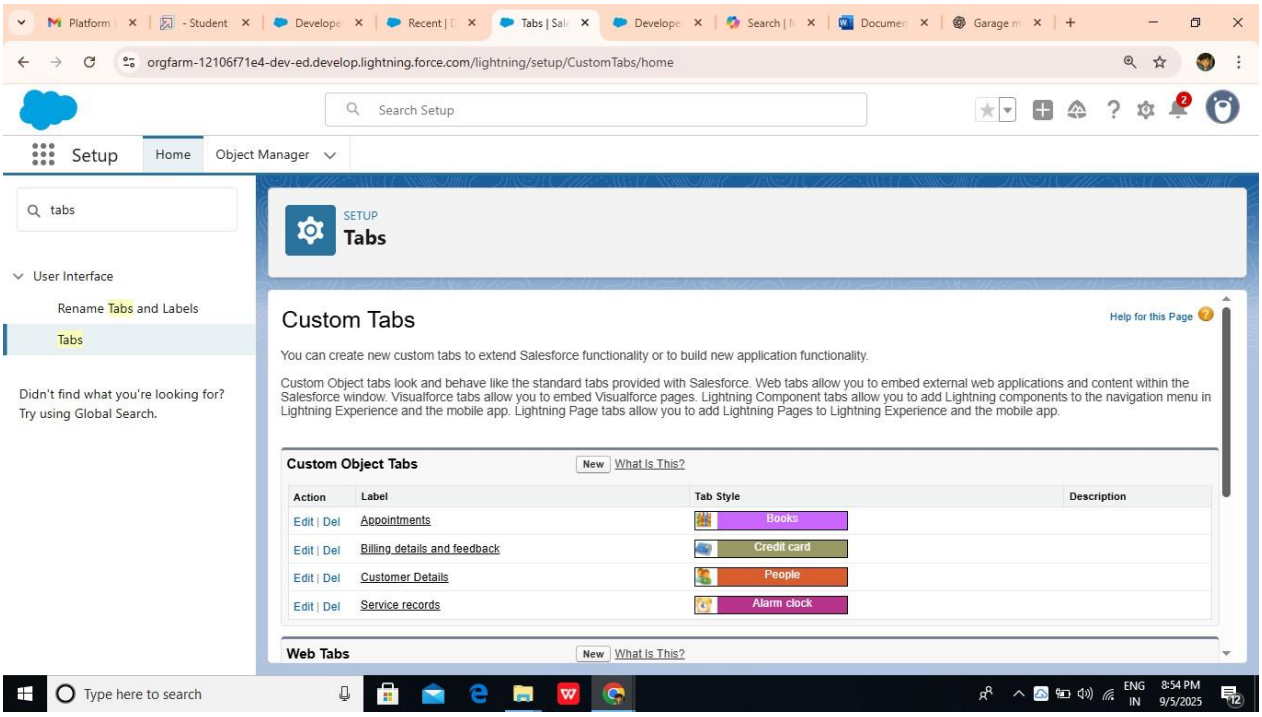
1.Creating a developer org in salesforce:



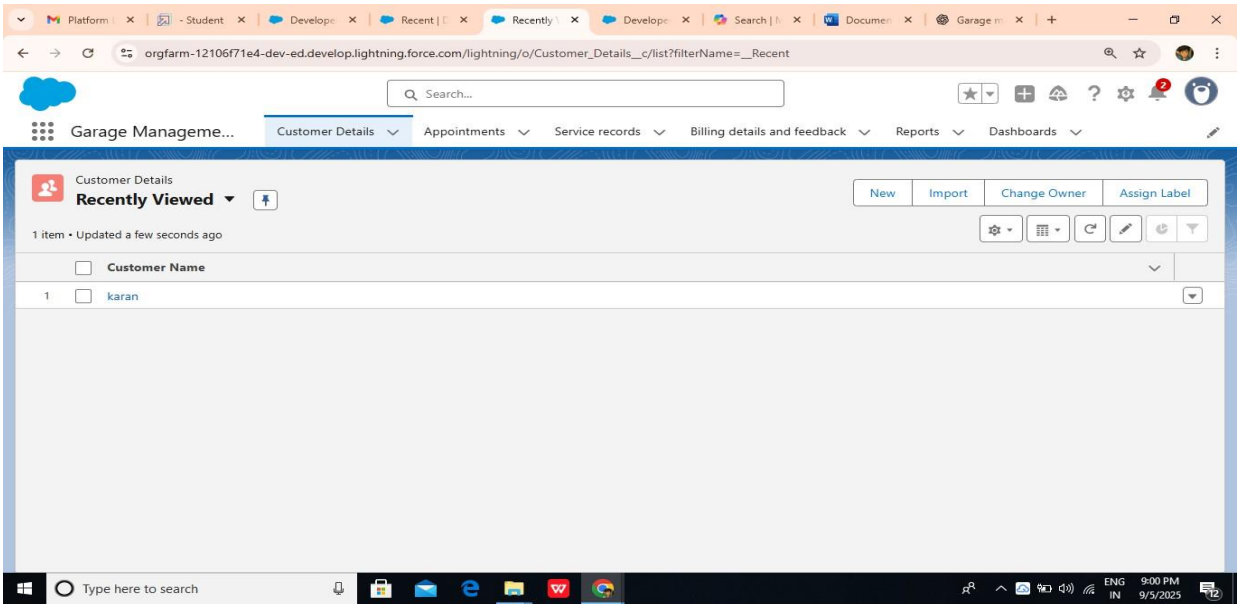
2.create an object:



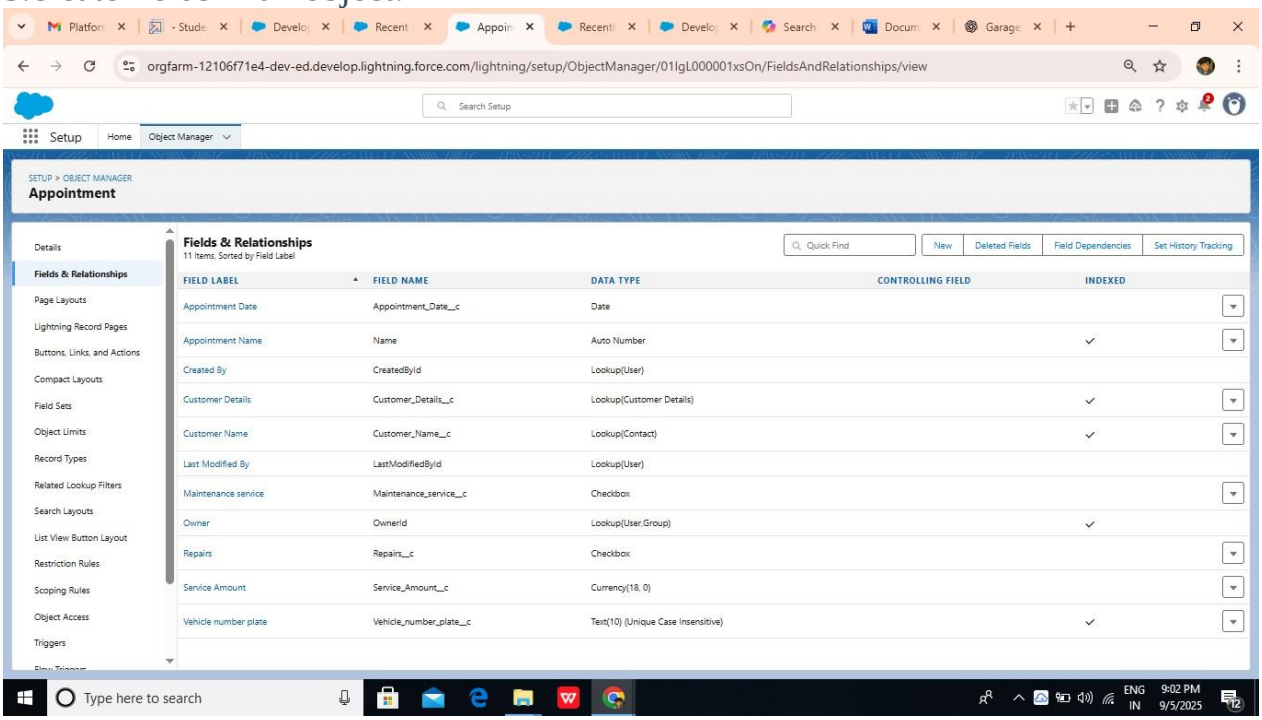
3.create a Tab:(Customer Details)

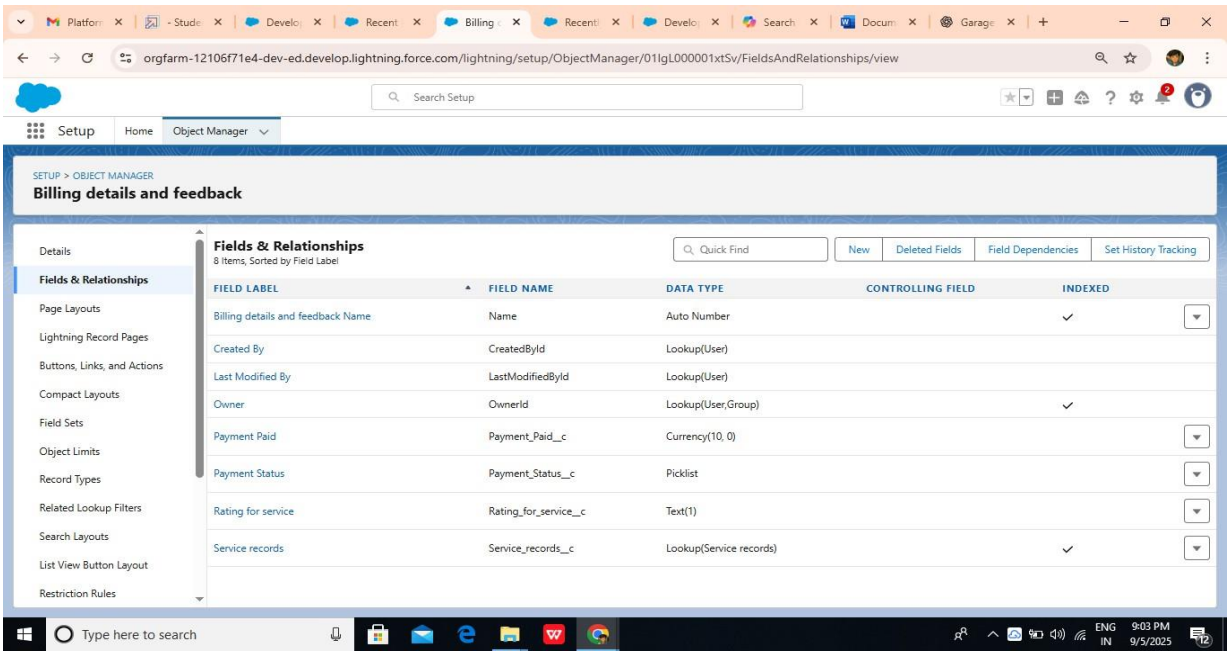


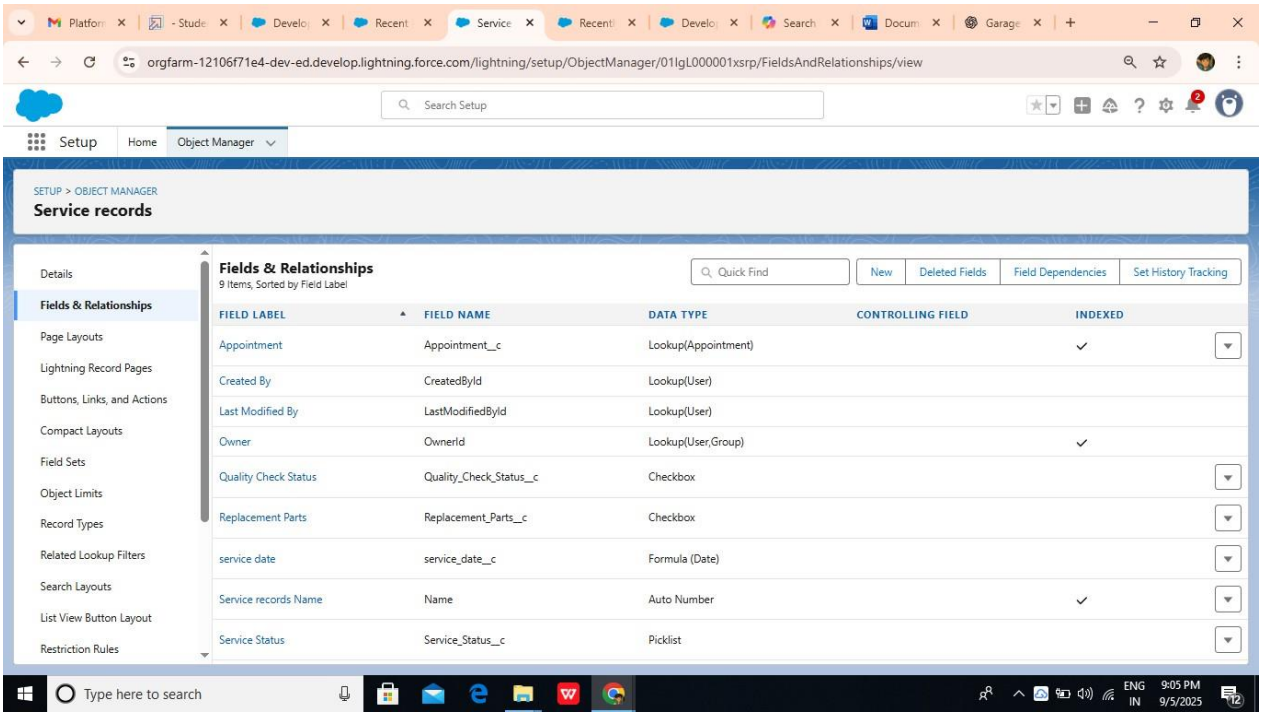
4.Create a Lightning App:

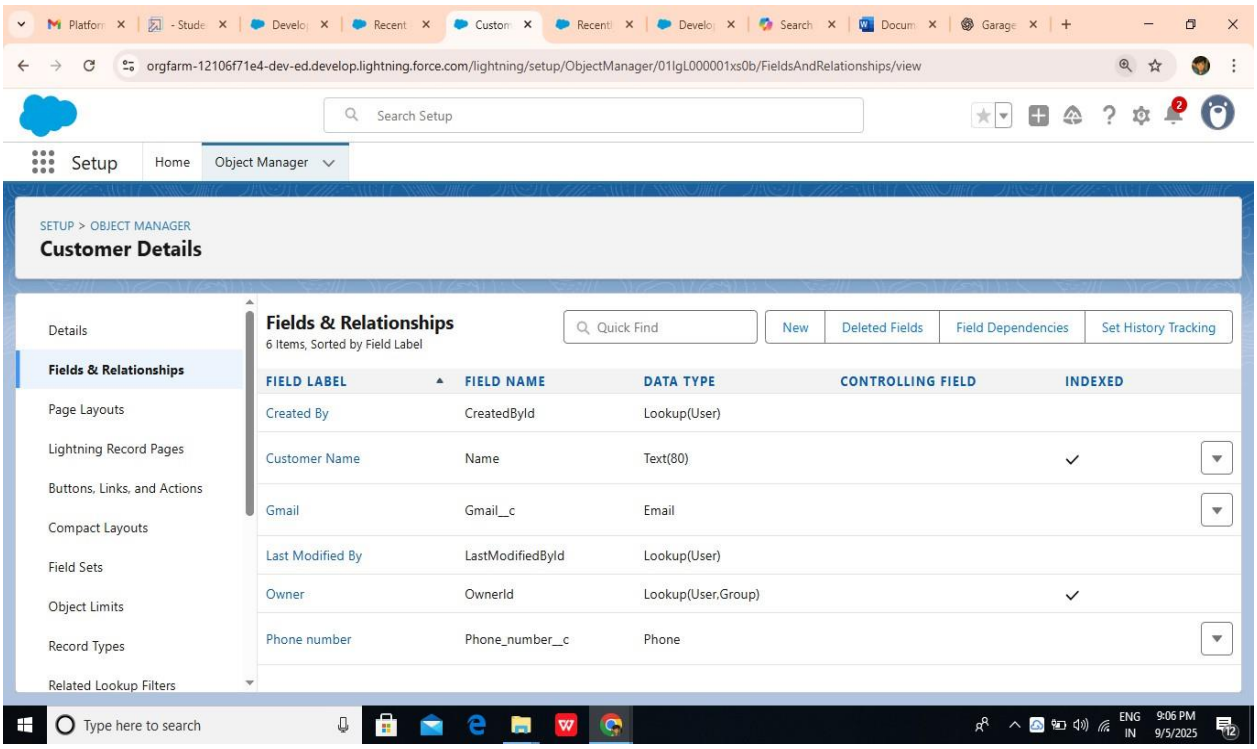


5.create fields in an object:

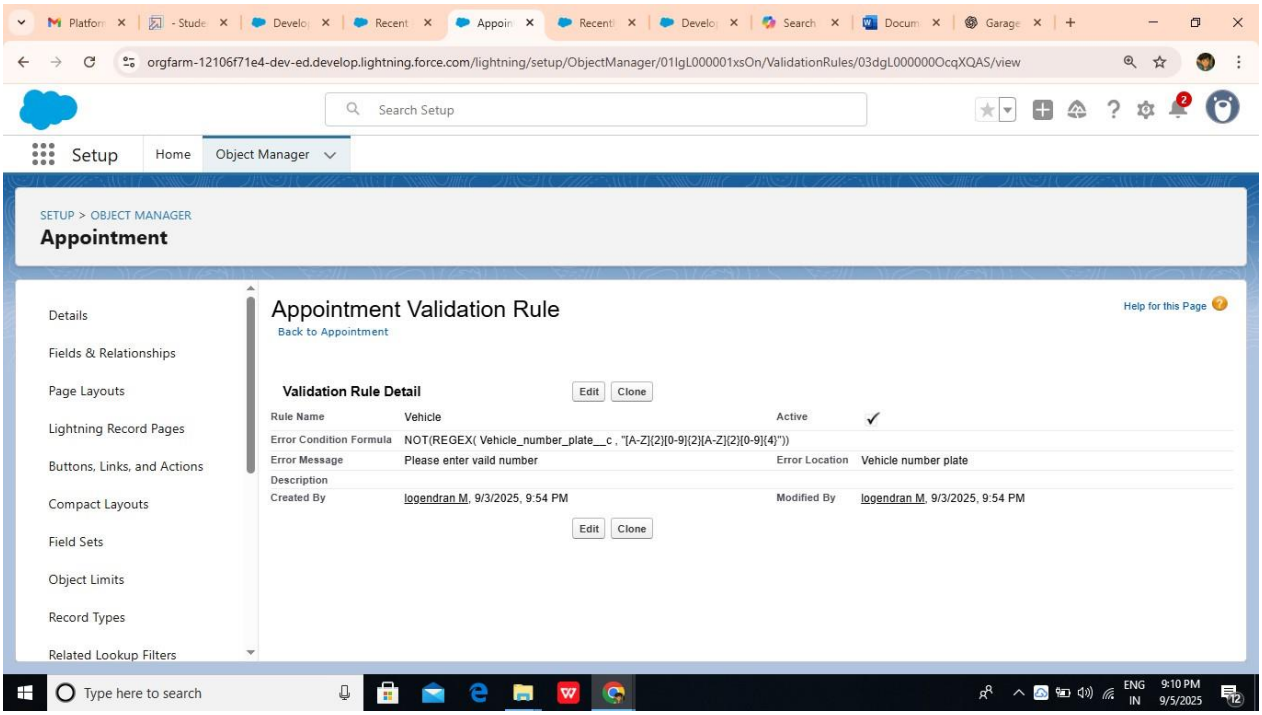


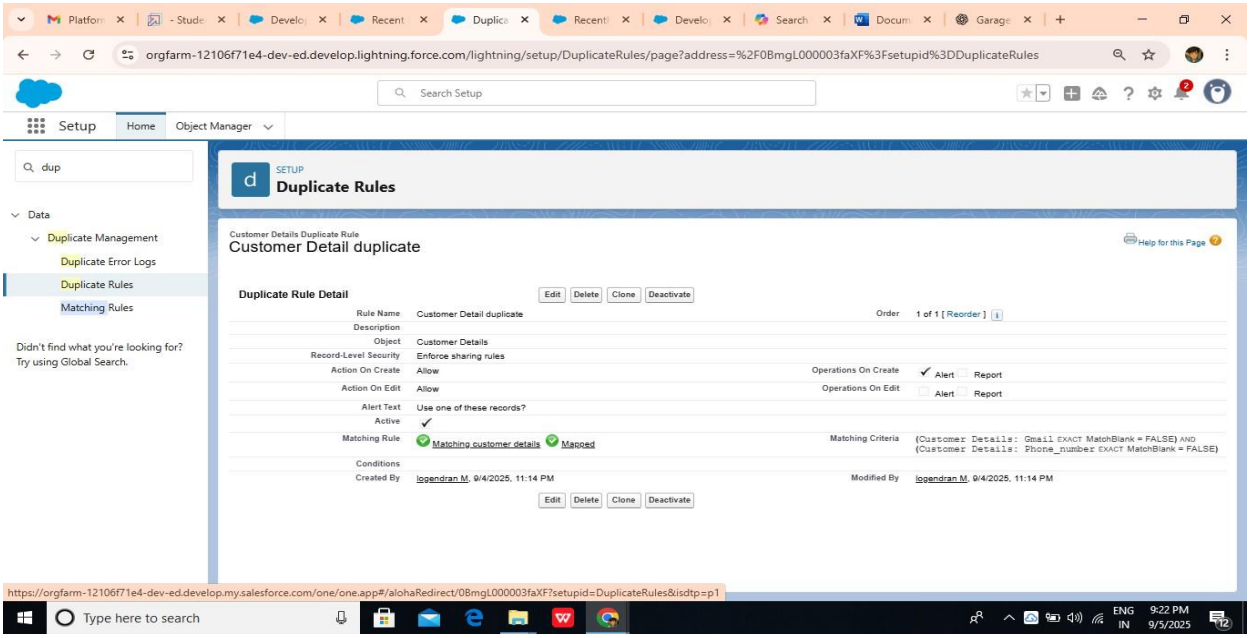



orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IgL000001xsrp/FieldsAndRelationships/view
Search Setup
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Service records
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Search Layouts
List View Button Layout
Restriction Rules
Fields & Relationships
9 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Appointment
Appointment__c
Lookup(Appointment)
Created By
CreatedById
Lookup(User)
Last Modified By
LastModifiedById
Lookup(User)
Owner
OwnerId
Lookup(User,Group)
Quality Check Status
Quality_Check_Status__c
Checkbox
Replacement Parts
Replacement_Parts__c
Checkbox
service date
service_date__c
Formula (Date)
Service records Name
Name
Auto Number
Service Status
Service_Status__c
Picklist
Type here to search
ENG
IN
9:05 PM
9/5/2025

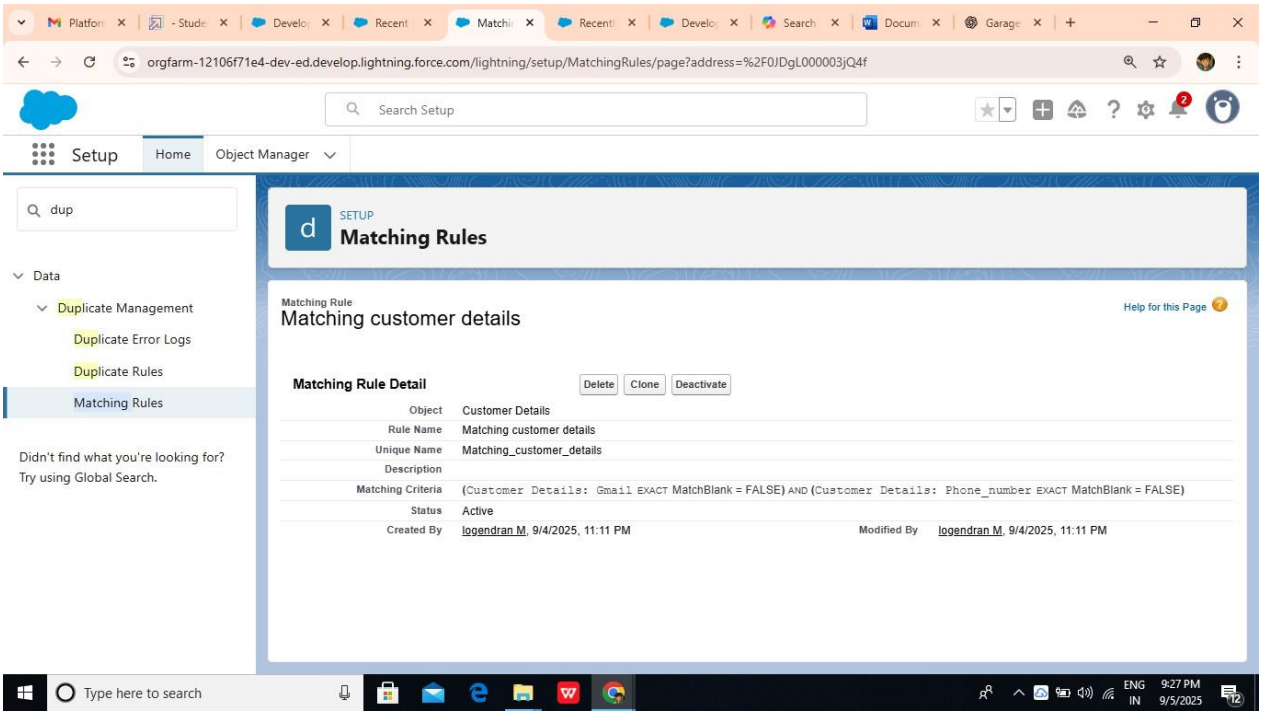

orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/01IgL000001xs0b/FieldsAndRelationships/view
Search Setup
Setup
Home
Object Manager
SETUP > OBJECT MANAGER
Customer Details
Details
Fields & Relationships
Page Layouts
Lightning Record Pages
Buttons, Links, and Actions
Compact Layouts
Field Sets
Object Limits
Record Types
Related Lookup Filters
Fields & Relationships
6 Items, Sorted by Field Label
Quick Find
New
Deleted Fields
Field Dependencies
Set History Tracking
FIELD LABEL
FIELD NAME
DATA TYPE
CONTROLLING FIELD
INDEXED
Created By
CreatedById
Lookup(User)
Customer Name
Name
Text(80)
Gmail
Gmail__c
Email
Last Modified By
LastModifiedById
Lookup(User)
Owner
OwnerId
Lookup(User,Group)
Phone number
Phone_number__c
Phone
Type here to search
ENG
IN
9:06 PM
9/5/2025

6.Create Validation rule:

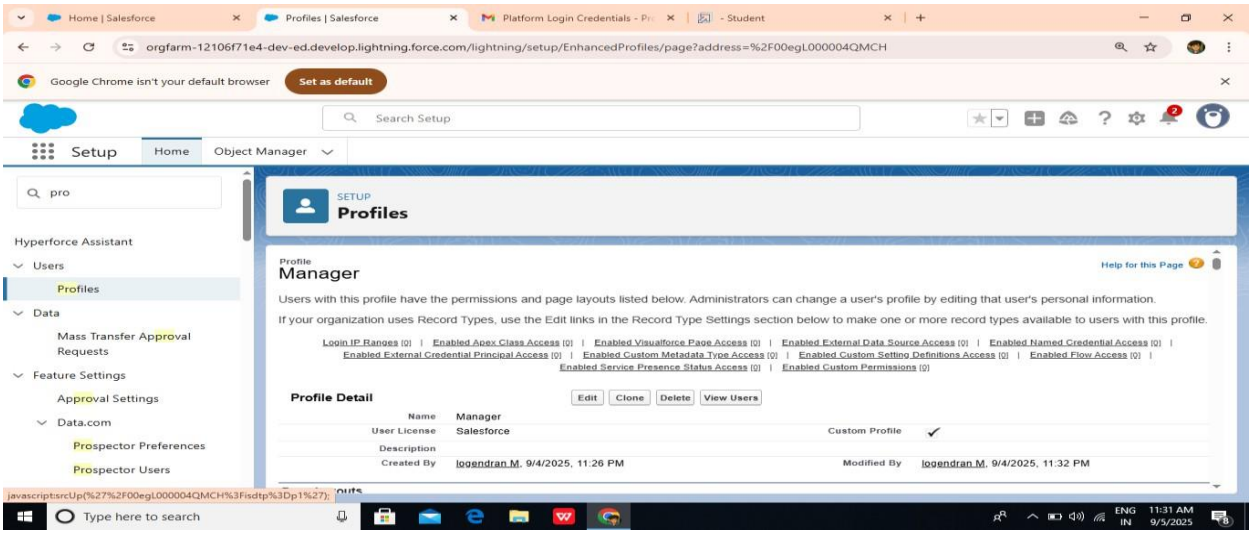


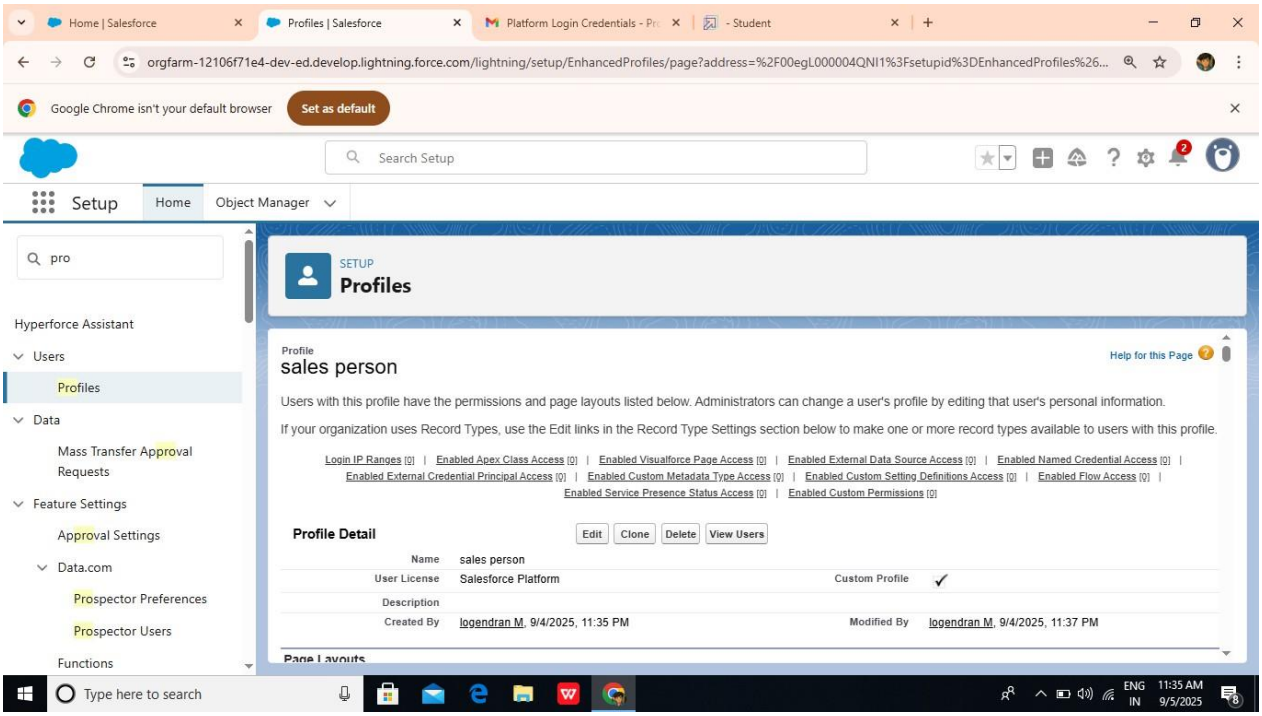


7.Duplicate rule to an Customer details Object:

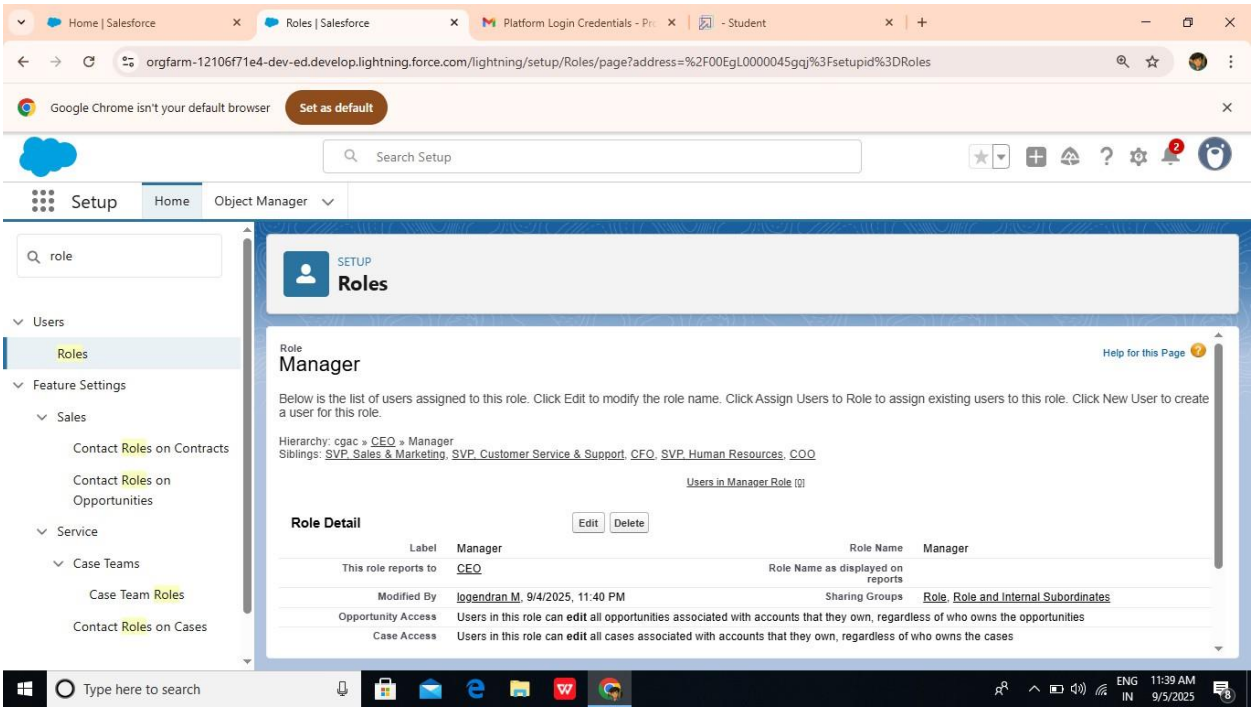


8.Profiles:

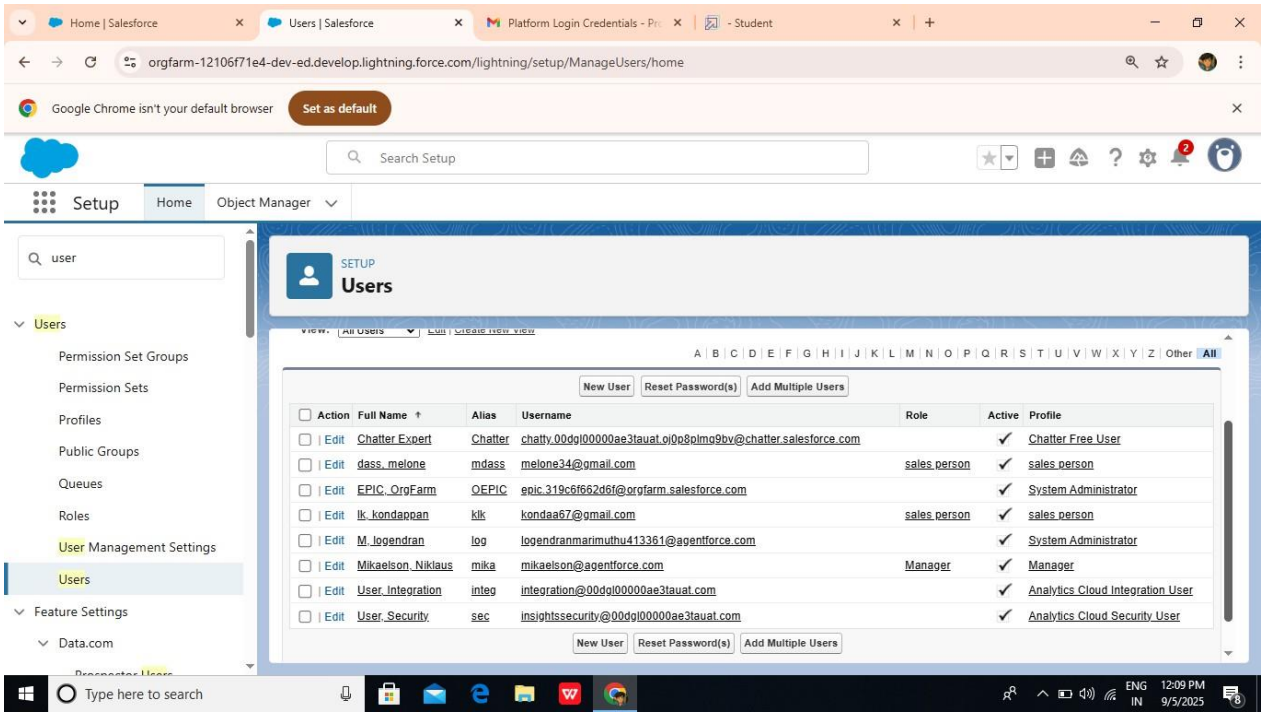


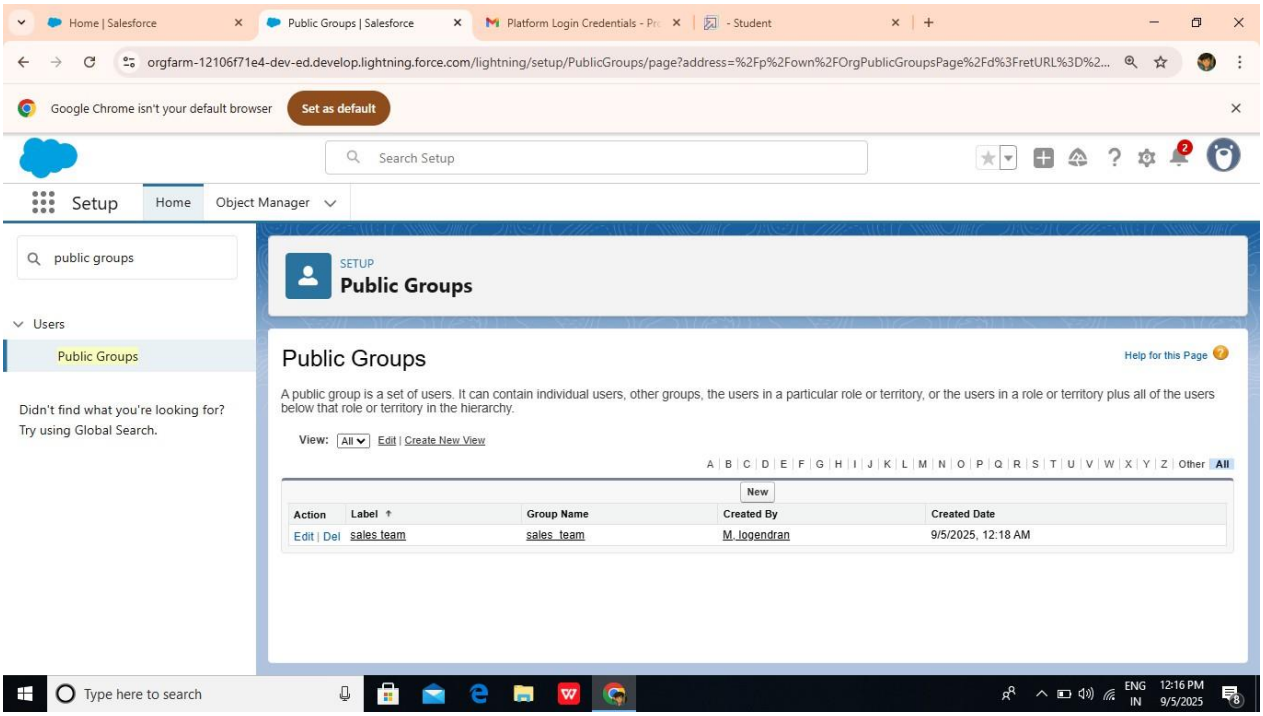

Home | Salesforce
Profiles | Salesforce
Platform Login Credentials - Pr
- Student
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/EnhancedProfiles/page?address=%2F00egL000004QNI1%3Fsetupid%3DEnhancedProfiles%26...
Google Chrome isn't your default browser
Set as default
Search Setup
Setup
Home
Object Manager
pro
Hyperforce Assistant
Users
Profiles
Data
Mass Transfer Approval Requests
Feature Settings
Approval Settings
Data.com
Prospector Preferences
Prospector Users
Functions
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 [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
Edit
Clone
Delete
View Users
Name
sales person
User License
Salesforce Platform
Custom Profile
Description
Created By
logendran M, 9/4/2025, 11:35 PM
Modified By
logendran M, 9/4/2025, 11:37 PM
Page Layouts
Type here to search
ENG
IN
11:35 AM
9/5/2025

9.Roles:

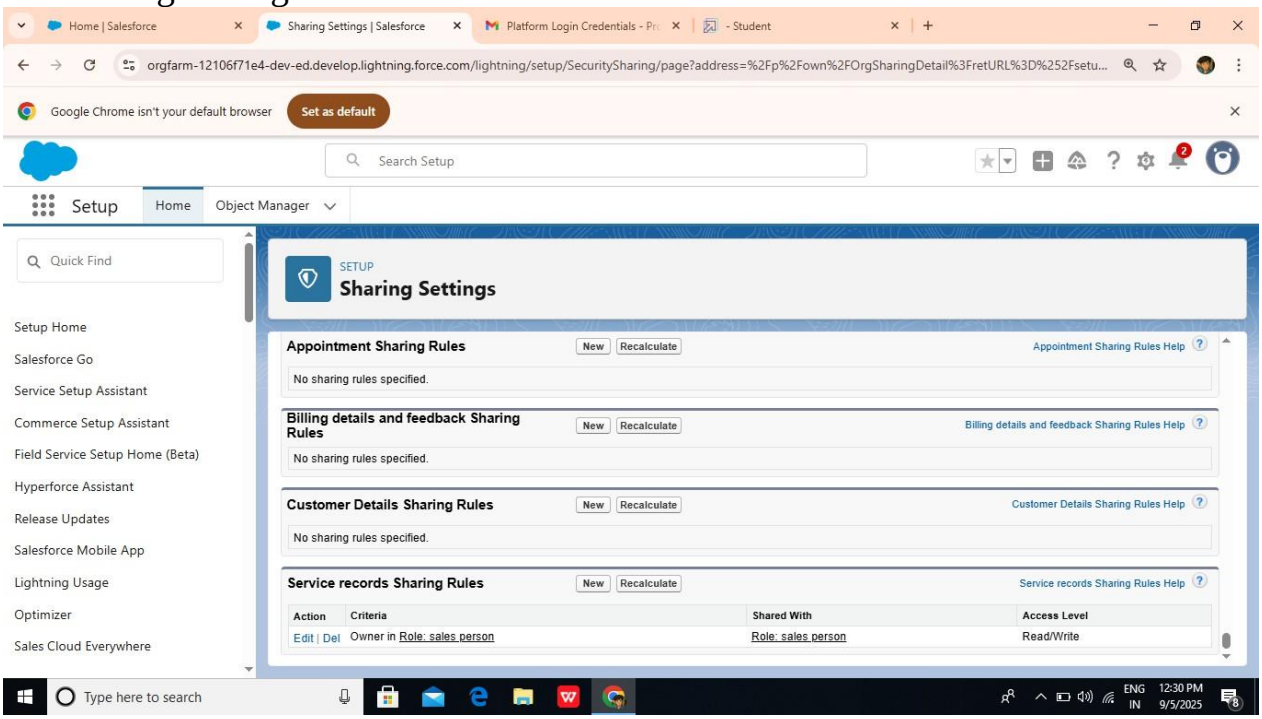

Home | Salesforce
Roles | Salesforce
Platform Login Credentials - Pr
- Student
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/Roles/page?address=%2F00EgL0000045gqj%3Fsetupid%3DRoles
Google Chrome isn't your default browser
Set as default
Search Setup
Setup
Home
Object Manager
role
Users
Roles
Feature Settings
Sales
Contact Roles on Contracts
Contact Roles on Opportunities
Service
Case Teams
Case Team Roles
Contact Roles on Cases
SETUP
Roles
Role
Manager
Help for this Page
Below is the list of users assigned to this role. Click Edit to modify the role name. Click Assign Users to Role to assign existing users to this role. Click New User to create a user for this role.
Hierarchy: cgac » CEO » Manager
Siblings: SVP, Sales & Marketing, SVP, Customer Service & Support, CFO, SVP, Human Resources, COO
Users in Manager Role [0]
Role Detail
Edit
Delete
Label
Manager
Role Name
Manager
This role reports to
CEO
Role Name as displayed on reports
Modified By
logendran M, 9/4/2025, 11:40 PM
Sharing Groups
Role, Role and Internal Subordinates
Opportunity Access
Users in this role can edit all opportunities associated with accounts that they own, regardless of who owns the opportunities
Case Access
Users in this role can edit all cases associated with accounts that they own, regardless of who owns the cases
Type here to search
ENG
IN
11:39 AM
9/5/2025

10.User:

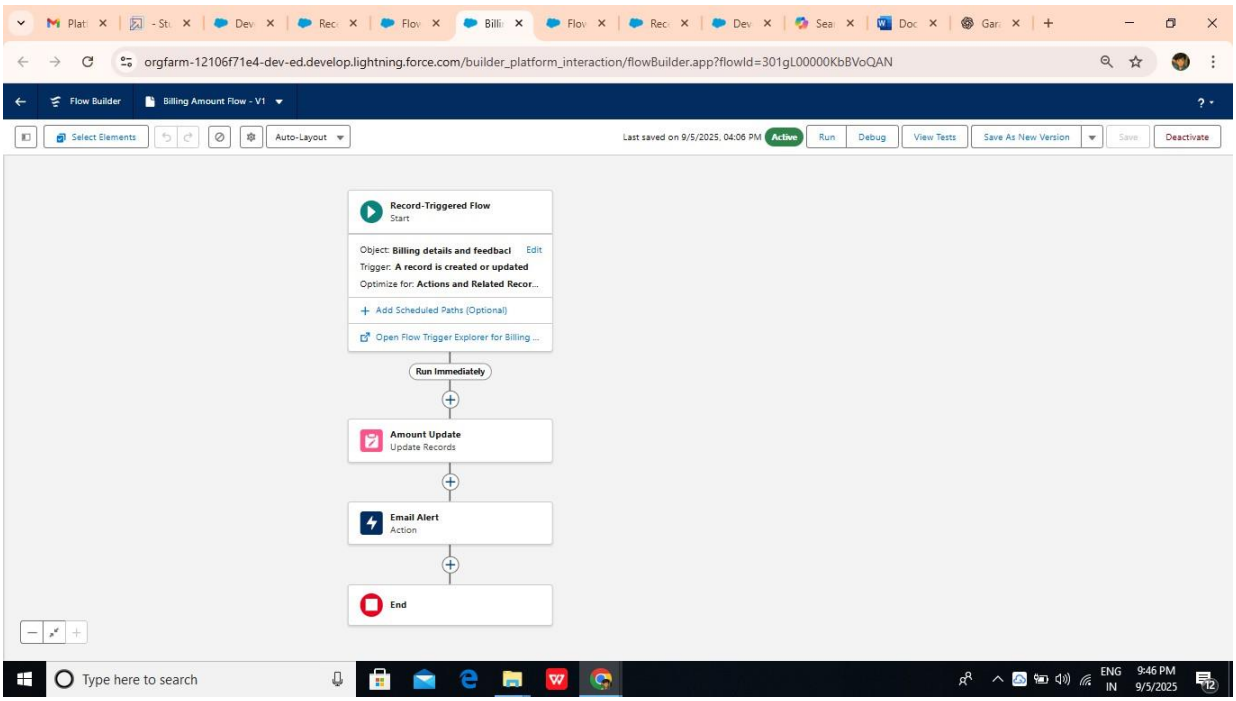

Home | Salesforce
Users | Salesforce
Platform Login Credentials - Pre
- Student
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/ManageUsers/home
Google Chrome isn't your default browser
Set as default
Search Setup
Setup
Home
Object Manager
user
Users
Permission Set Groups
Permission Sets
Profiles
Public Groups
Queues
Roles
User Management Settings
Users
Feature Settings
Data.com
SETUP
Users
New User
Reset Password(s)
Add Multiple Users
Action
Full Name
Alias
Username
Role
Active
Profile
Edit | Chatter Expert | Chatter | chatty.00dgl00000ae3tauat.oj0p8plmq9bv@chatter.salesforce.com | ✓ | Chatter Free User
Edit | dass, melone | mdass | melone34@gmail.com | sales person | ✓ | sales person
Edit | EPIC, OrgFarm | OEPIC | epic.319c6f662d6f@orgfarm.salesforce.com | ✓ | System Administrator
Edit | lk, kondappan | klk | kondaa67@gmail.com | sales person | ✓ | sales person
Edit | M, logendran | log | logendranmarimuthu413361@agentforce.com | ✓ | System Administrator
Edit | Mikaelson, Niklaus | mika | mikaelson@agentforce.com | Manager | ✓ | Manager
Edit | User, Integration | integ | integration@00dgl00000ae3tauat.com | ✓ | Analytics Cloud Integration User
Edit | User, Security | sec | insightssecurity@00dgl00000ae3tauat.com | ✓ | Analytics Cloud Security User
Type here to search
ENG IN
12:09 PM 9/5/2025

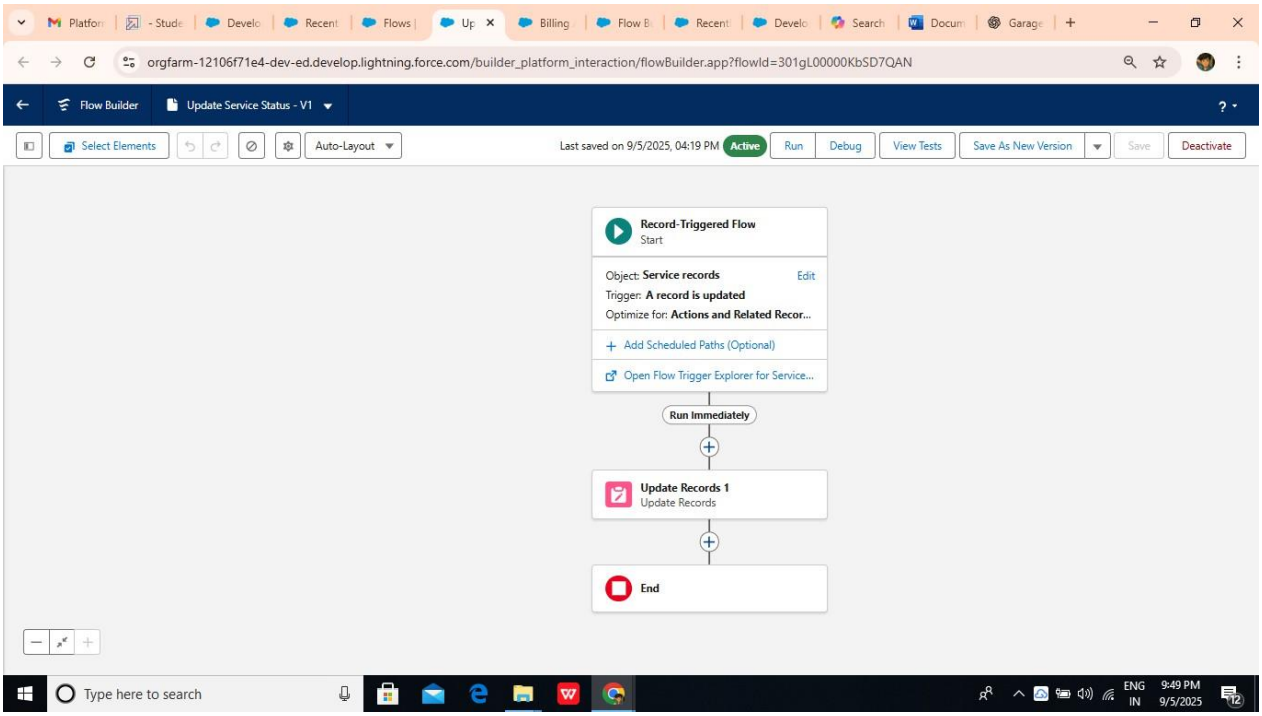

Home | Salesforce
Public Groups | Salesforce
Platform Login Credentials - Pre
- Student
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/PublicGroups/page?address=%2Fp%2Fown%2FOrgPublicGroupsPage%2Fd%3FretURL%3D%2...
Google Chrome isn't your default browser
Set as default
Search Setup
Setup
Home
Object Manager
public groups
Users
Public Groups
Didn't find what you're looking for?
Try using Global Search.
SETUP
Public Groups
Public Groups
Help for this Page
A public group is a set of users. It can contain individual users, other groups, the users in a particular role or territory, or the users in a role or territory plus all of the users below that role or territory in the hierarchy.
View: All
Edit | Create New View
New
Action
Label
Group Name
Created By
Created Date
Edit | Del | sales team | sales_team | M, logendran | 9/5/2025, 12:18 AM
Type here to search
ENG IN
12:16 PM 9/5/2025

11.Sharing Setting:

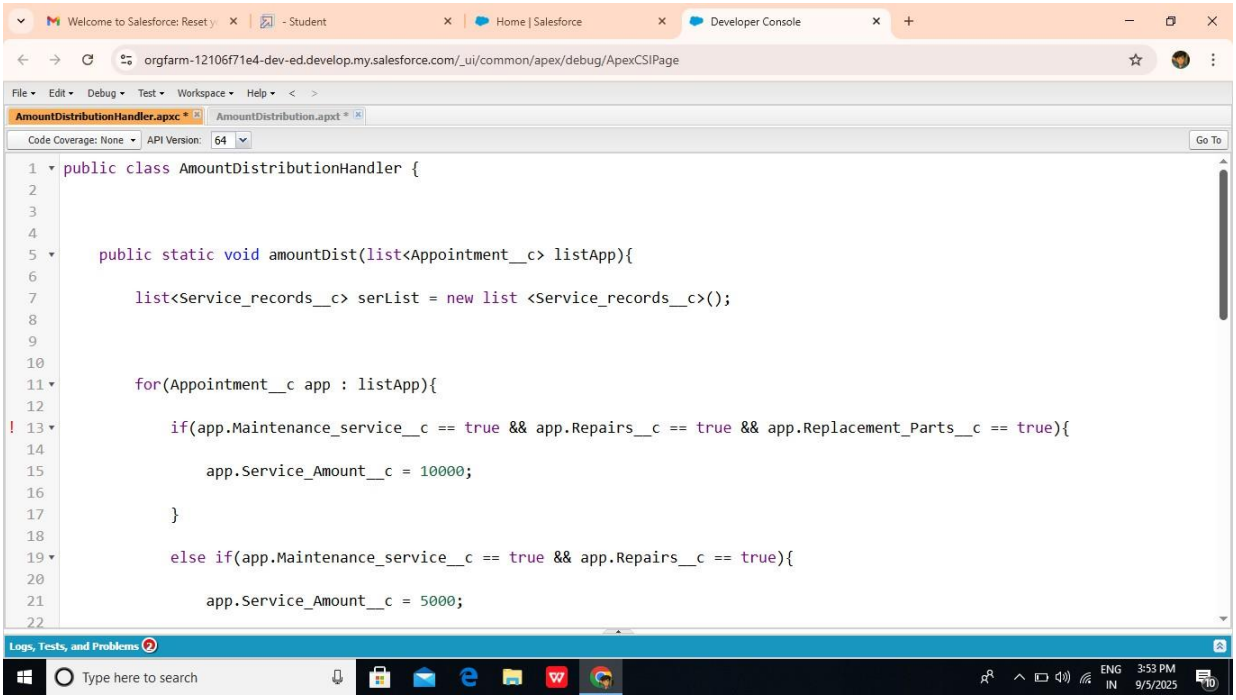


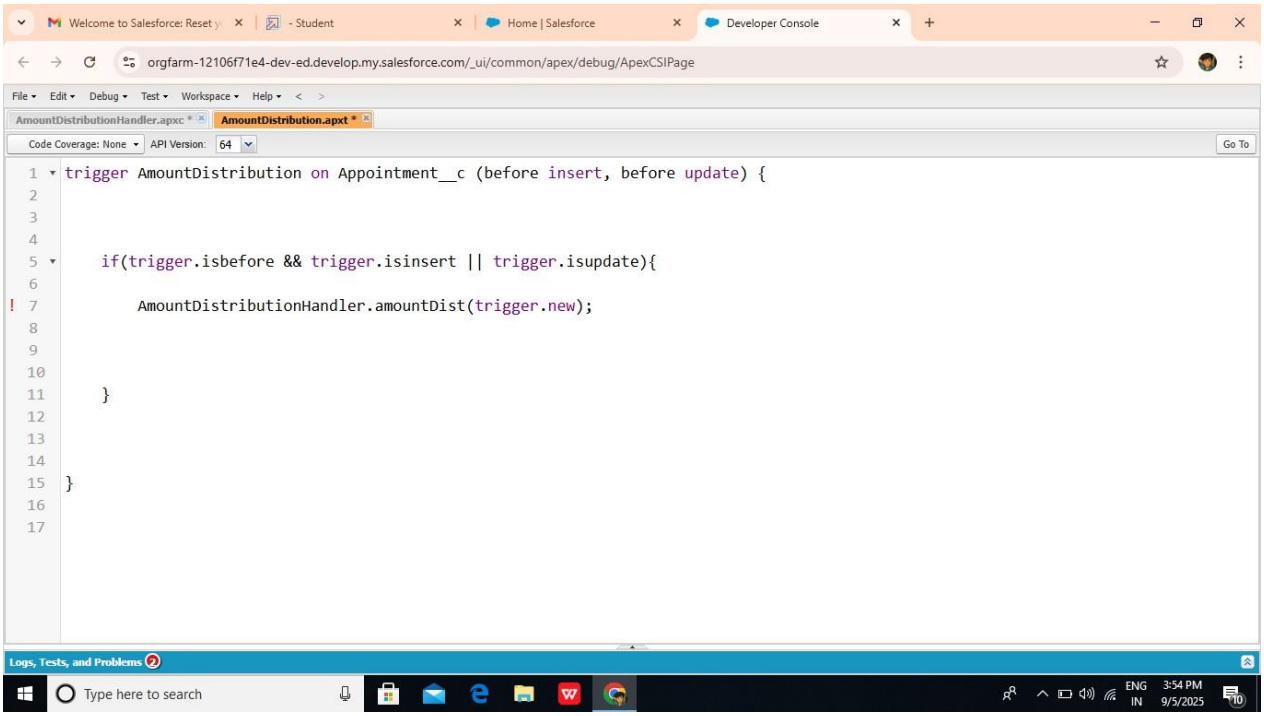
12.Flows:



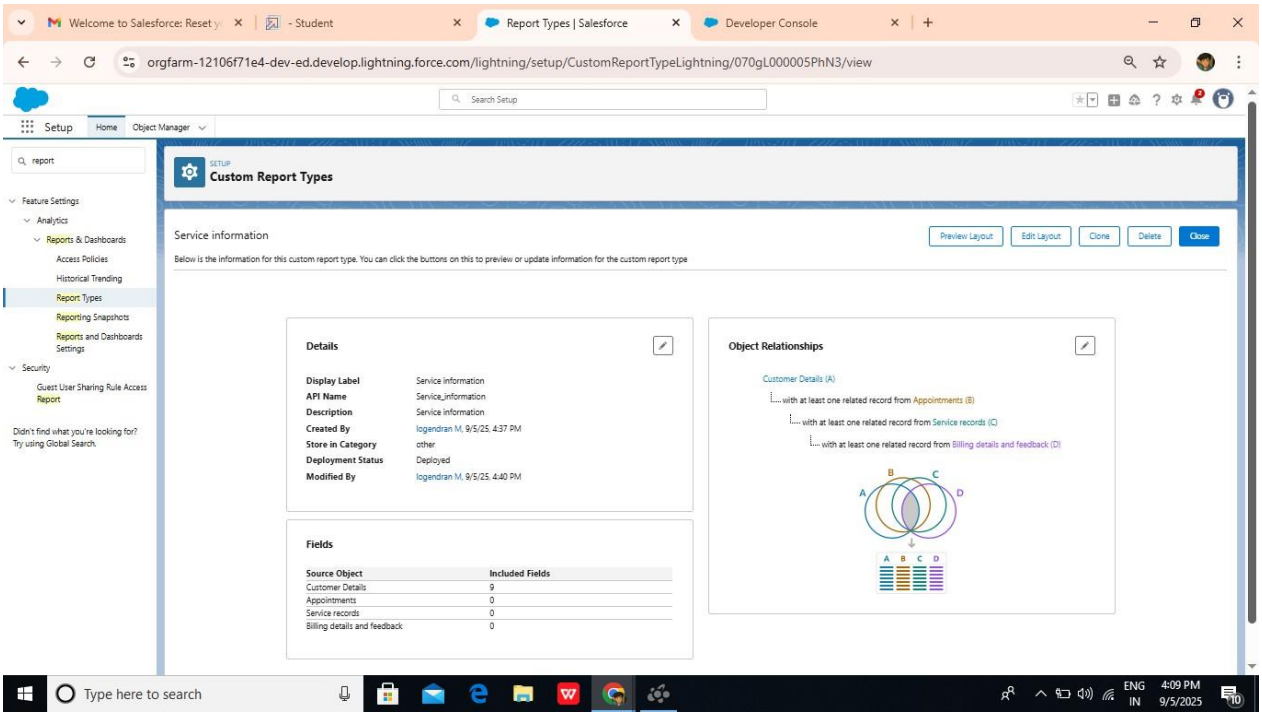


13.Apex Trigger:

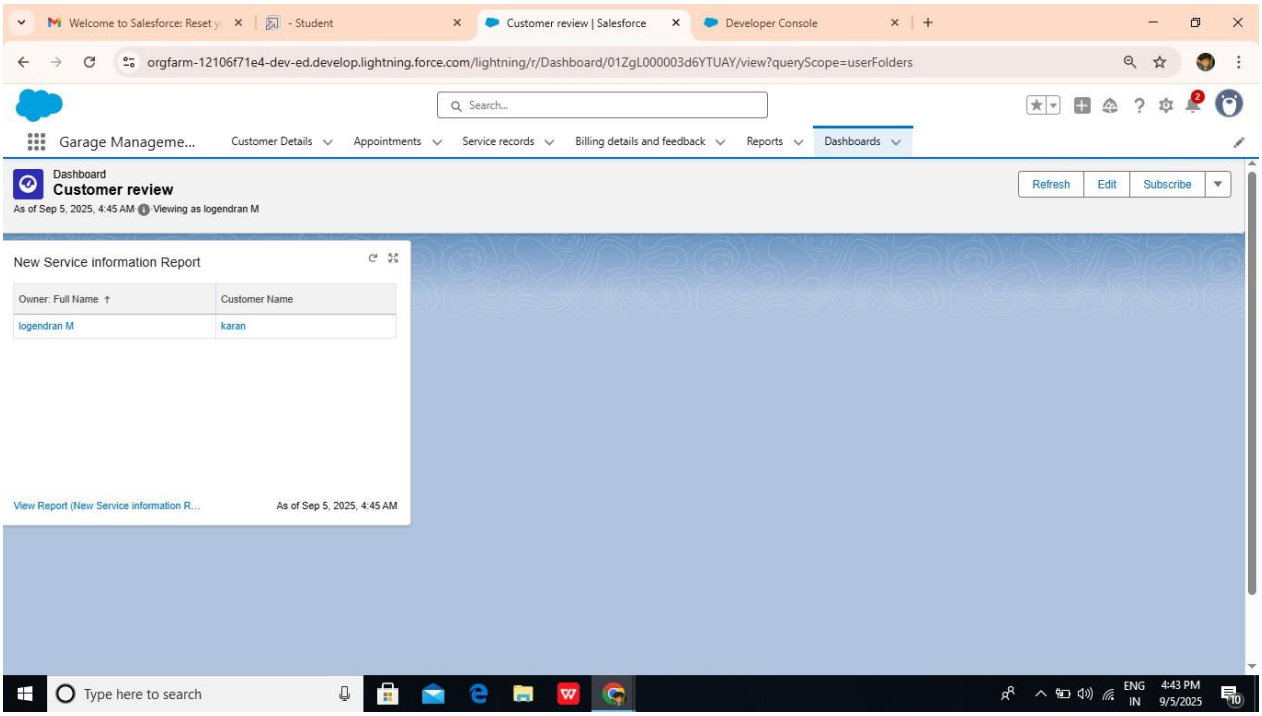



Welcome to Salesforce: Reset y
- Student
Home | Salesforce
Developer Console
orgfarm-12106f71e4-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File Edit Debug Test Workspace Help
AmountDistributionHandler.apxc *
AmountDistribution.apxt *
Code Coverage: None
API Version: 64
Go To
1 trigger AmountDistribution on Appointment__c (before insert, before update) {
2
3
4
5 if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
6
7 AmountDistributionHandler.amountDist(trigger.new);
8
9
10
11 }
12
13
14
15 }
16
17
Logs, Tests, and Problems
Type here to search
ENG
IN
3:54 PM
9/5/2025

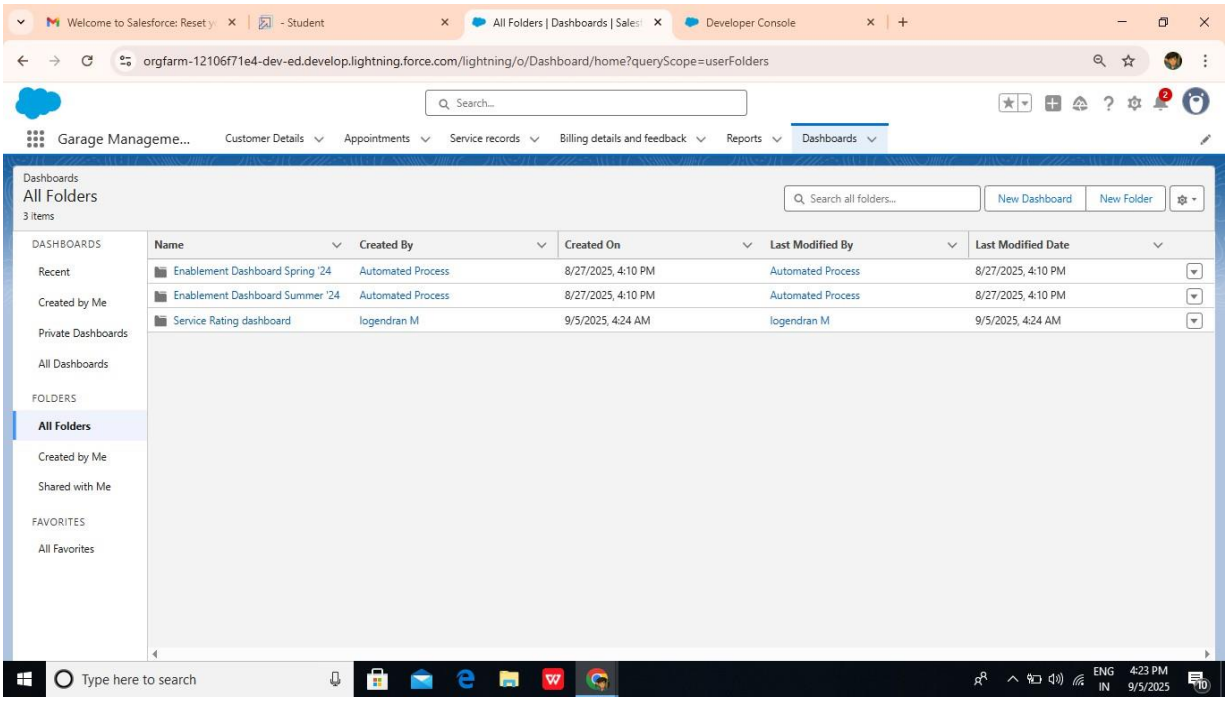
14.Reports:

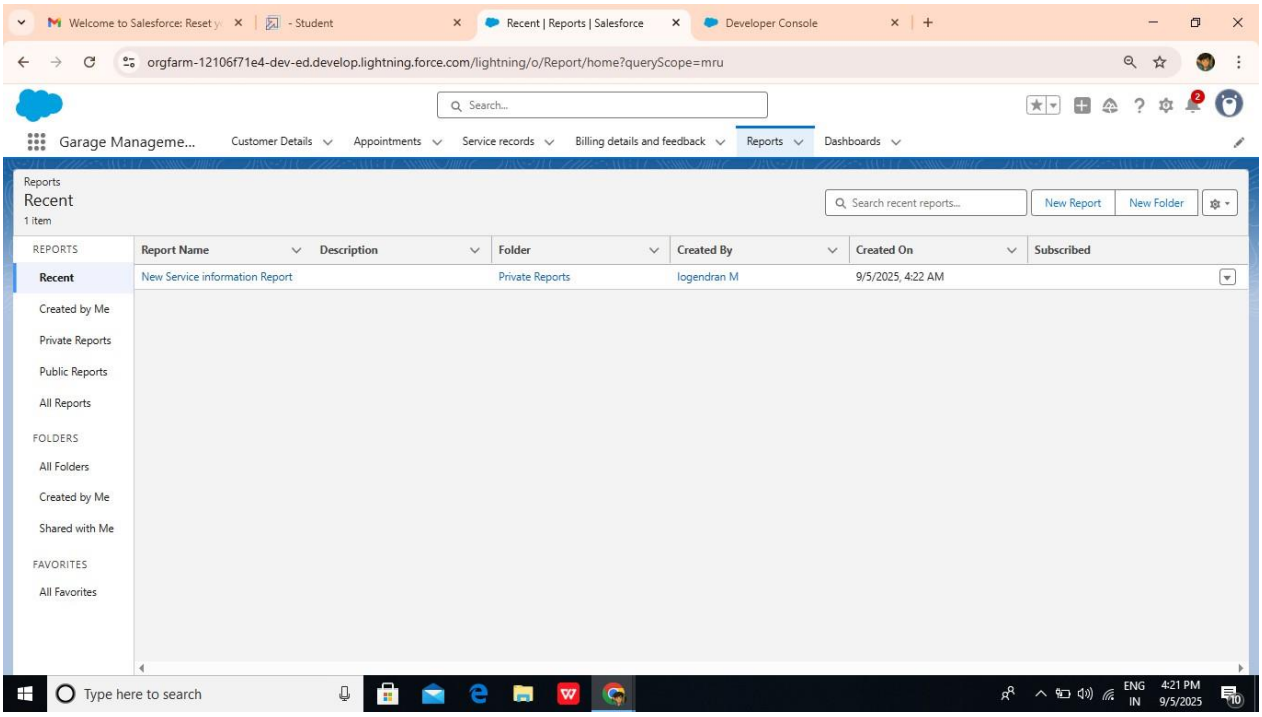

Welcome to Salesforce: Reset y
- Student
Report Types | Salesforce
Developer Console
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/setup/CustomReportTypeLightning/070gL000005PhN3/view
Search Setup
Setup
Home
Object Manager
report
Feature Settings
Analytics
Reports & Dashboards
Access Policies
Historical Trending
Report Types
Reporting Snapshots
Reports and Dashboards Settings
Security
Guest User Sharing Rule Access Report
Didn't find what you're looking for? Try using Global Search.
SETUP
Custom Report Types
Service information
Preview Layout
Edit Layout
Clone
Delete
Close
Below is the information for this custom report type. You can click the buttons on this to preview or update information for the custom report type
Details
Display Label Service information
API Name Service_information
Description Service information
Created By logendran M, 9/5/25, 4:37 PM
Store in Category other
Deployment Status Deployed
Modified By logendran M, 9/5/25, 4:40 PM
Object Relationships
Customer Details (A)
with at least one related record from Appointments (B)
with at least one related record from Service records (C)
with at least one related record from Billing details and feedback (D)
Fields
Source Object Included Fields
Customer Details 9
Appointments 0
Service records 0
Billing details and feedback 0
Type here to search
ENG
IN
4:09 PM
9/5/2025

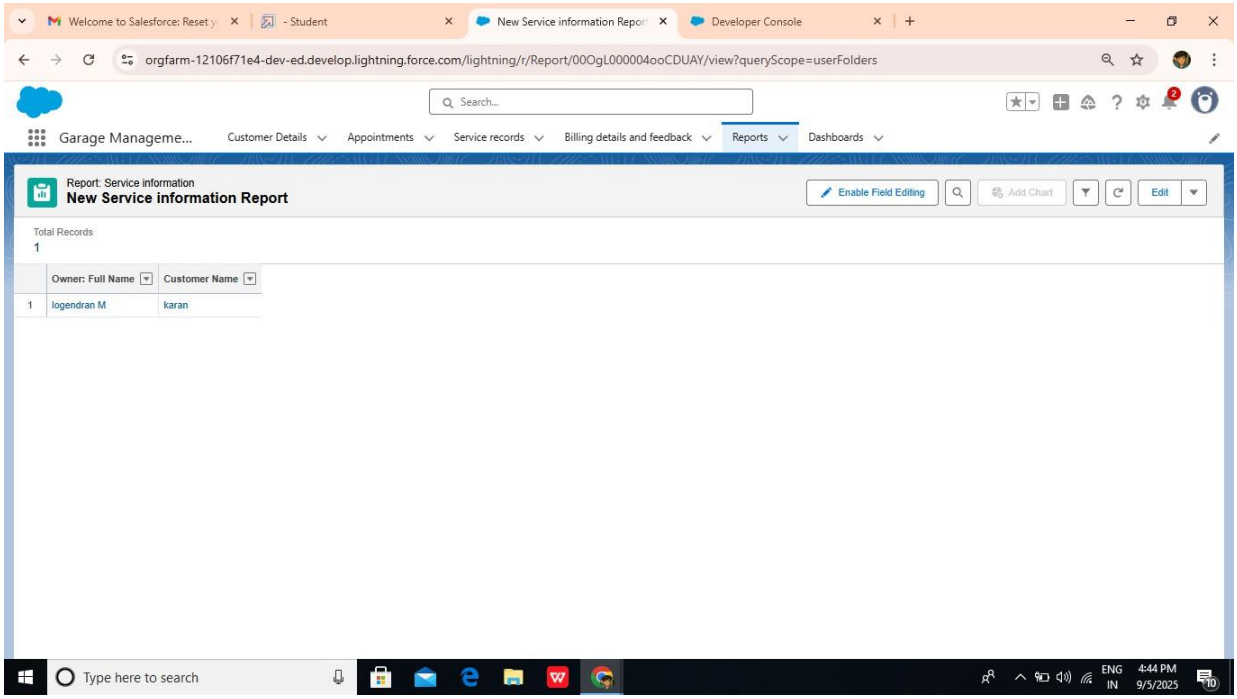
15.Dashboards:

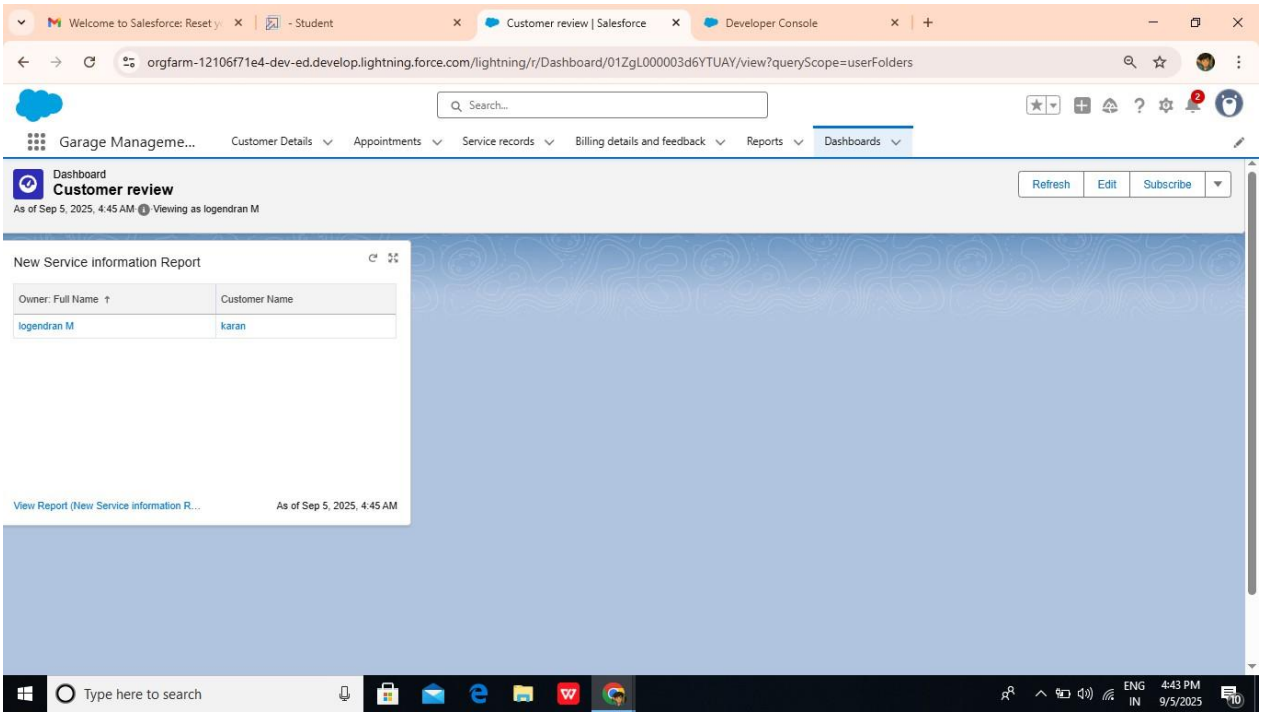


16.User adoption:




Welcome to Salesforce: Reset y
- Student
Recent | Reports | Salesforce
Developer Console
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/o/Report/home?queryScope=mru
Search...
Garage Manageme...
Customer Details
Appointments
Service records
Billing details and feedback
Reports
Dashboards
Reports
Recent
1 item
Search recent reports...
New Report
New Folder
REPORTS
Recent
Created by Me
Private Reports
Public Reports
All Reports
FOLDERS
All Folders
Created by Me
Shared with Me
FAVORITES
All Favorites
Report Name
Description
Folder
Created By
Created On
Subscribed
New Service information Report
Private Reports
logendran M
9/5/2025, 4:22 AM
Type here to search
ENG
IN
4:21 PM
9/5/2025


Welcome to Salesforce: Reset y
- Student
New Service information Repor
Developer Console
orgfarm-12106f71e4-dev-ed.develop.lightning.force.com/lightning/r/Report/00OgL000004ooCDUAY/view?queryScope=userFolders
Search...
Garage Manageme...
Customer Details
Appointments
Service records
Billing details and feedback
Reports
Dashboards
Report: Service information
New Service information Report
Enable Field Editing
Add Chart
Edit
Total Records
1
Owner: Full Name
Customer Name
1
logendran M
karan
Type here to search
ENG
IN
4:44 PM
9/5/2025



APPENDIX:

Amount distribution handler:

```
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 :

```
trigger AmountDistribution on Appointment___c (before insert, before update) {

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

    }

}
```

CONCLUSION:

The **Garage Management System (GMS)**, built on the **Salesforce platform**, is a powerful and scalable solution designed to streamline the operations of automotive service centers. By leveraging **Salesforce's robust CRM capabilities**, the system not only optimizes internal workflows such as **service booking, work order management, inventory tracking**, and **billing**, but also enhances the **customer experience** through real-time engagement via portals, notifications, and self-service options.