PROJECT TITLE: Garage Management System

College Name: PPG College of Arts and Science

College Code: bruap

TEAM ID: NM2025TMID25936

TEAM MEMBERS: 4

Team Leader Name: Avantika Nakshatra S

Email: 2328f0005.cas@ppg.edu.in

Team Member1: Barath P

Email: 2328f0006.cas@ppg.edu.in

Team Member2: Boomika G

Email: 2328f0007.cas@ppg.edu.in

Team Member3: Chandran P

Email: 2328f0008.cas@ppg.edu.in

INTRODUCTION

Project Overview

A Garage Management System is a software solution designed to streamline and automate the operations of an automobile garage or service center. It helps manage vehicle servicing, customer records, spare parts inventory, billing, and staff scheduling efficiently. The goal is to improve productivity, reduce manual paperwork, and provide better service to customers.

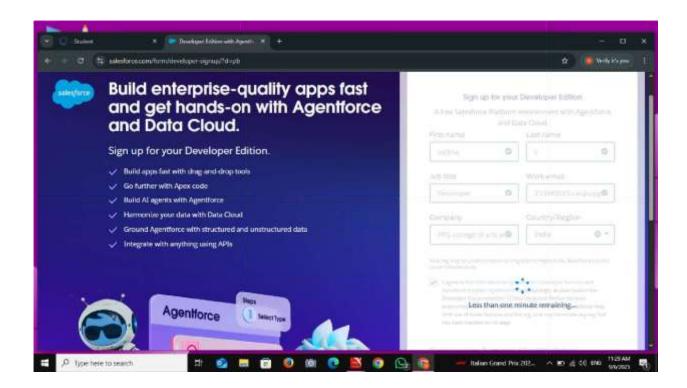
PURPOSE

The purpose of a Garage Management System is to automate and simplify the operations of an automobile garage or service center. It helps in maintaining customer and vehicle records, tracking service and repair activities, managing spare parts inventory, and generating accurate billing. The system ensures efficiency, reduces manual errors, and enhances customer satisfaction by providing timely and transparent services.

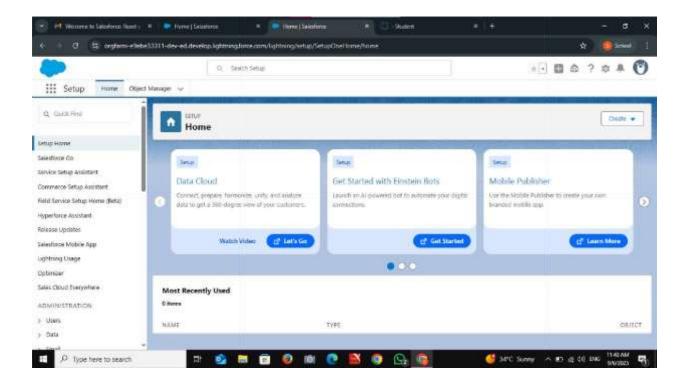
DEVELOPMENT PHASE

• Creating A Developer Account:

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

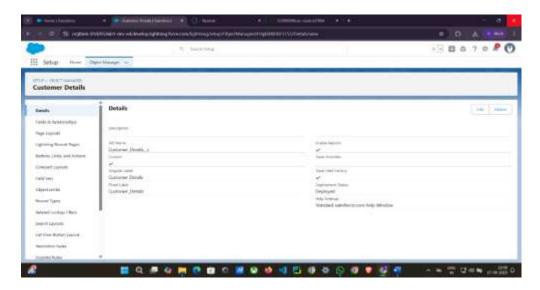


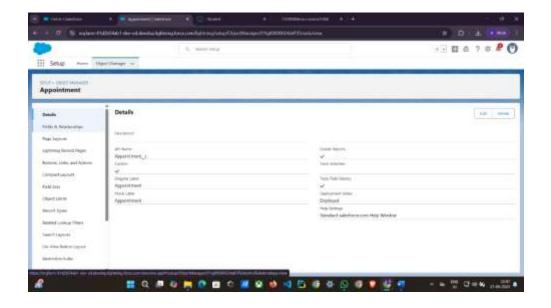
Account Activation:

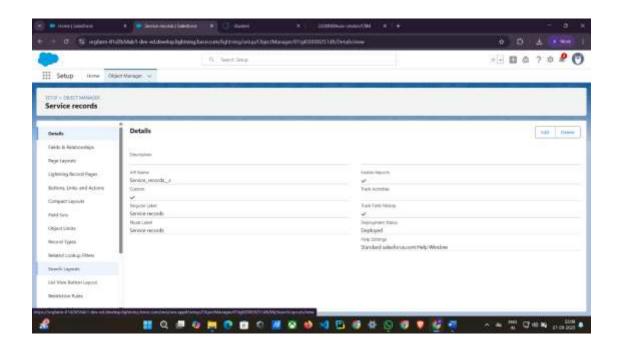


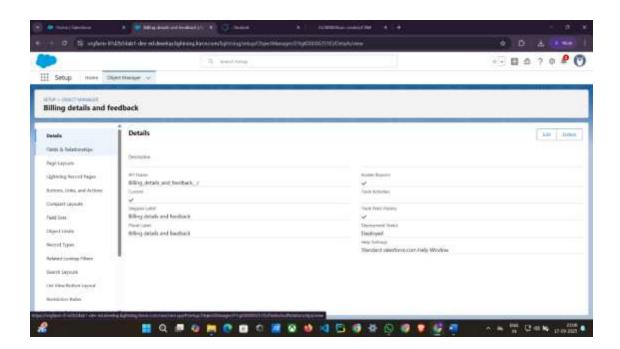
Object

• Created objects: Customer Details, Appointment, Service records, Billing details and feedback



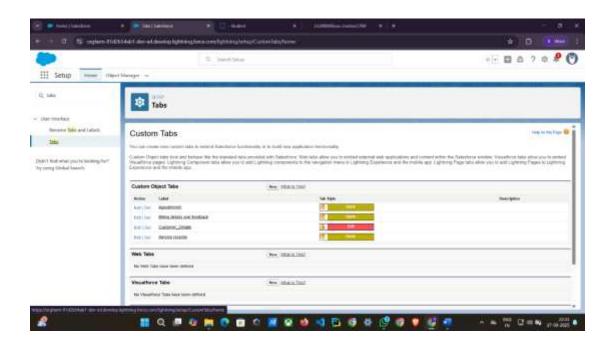




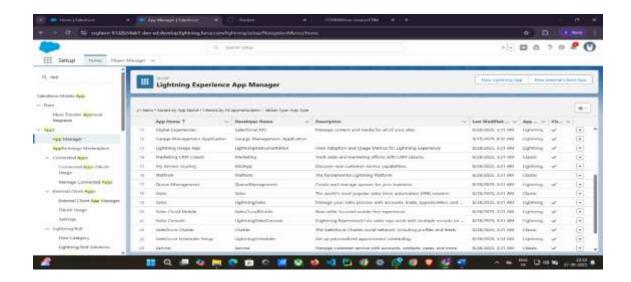


Tabs

• Created tabs: Custom Tab, Remaining Tabs

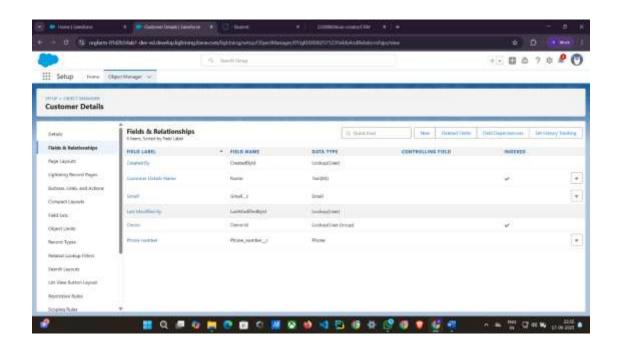


Developed Lightning App with relevant tabs

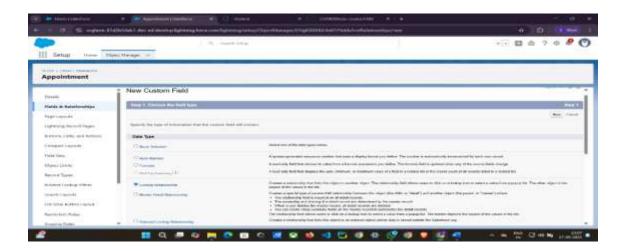


Fields

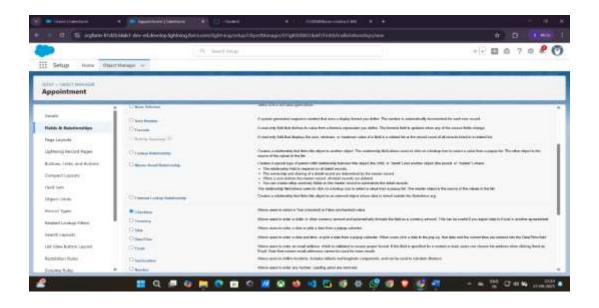
• Fields: Customer Details object



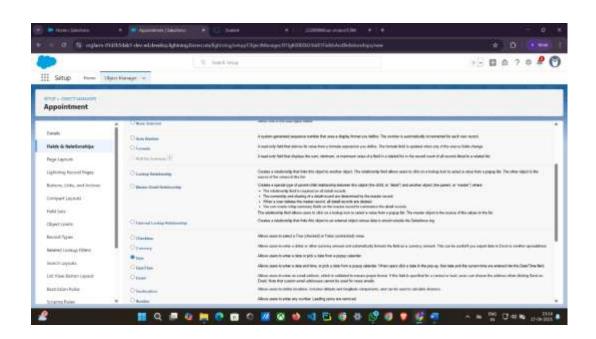
Lookup Fields



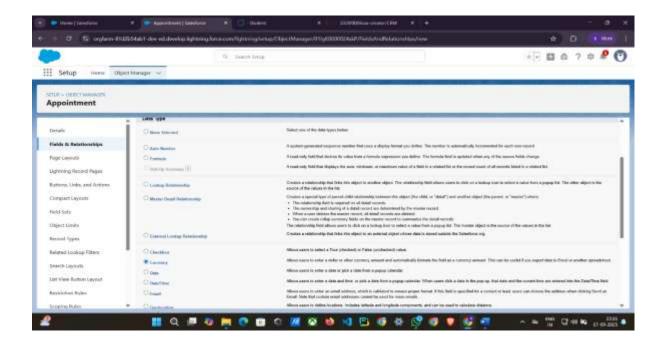
Checkbox Fields



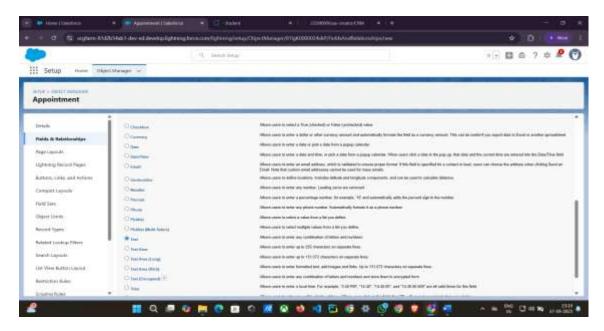
Date Fields



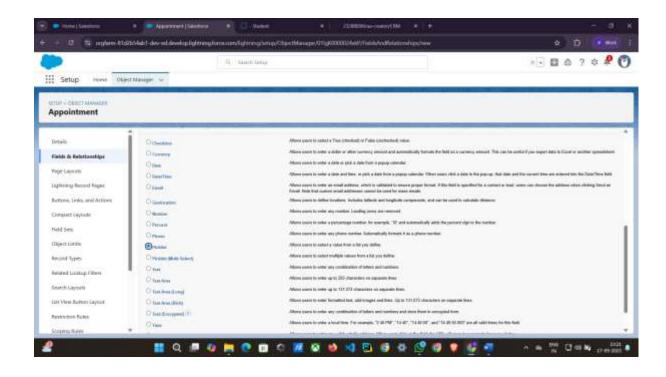
Currency Field



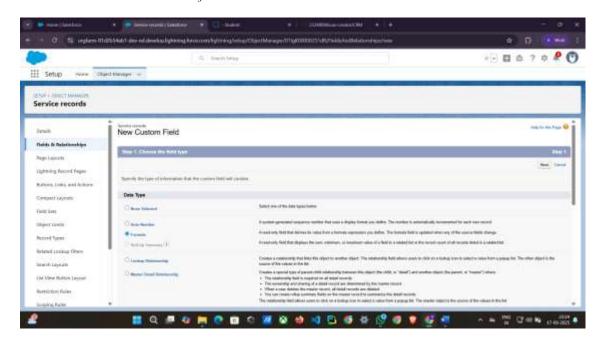
Text Fields



Picklist Fields

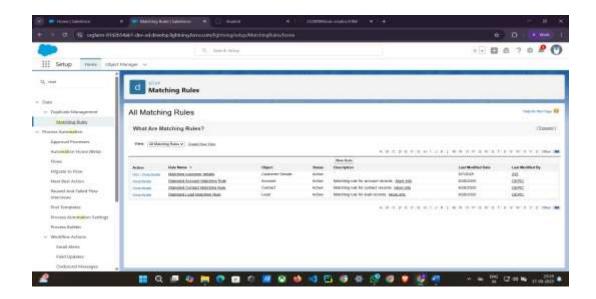


Formula Field in Service records Object

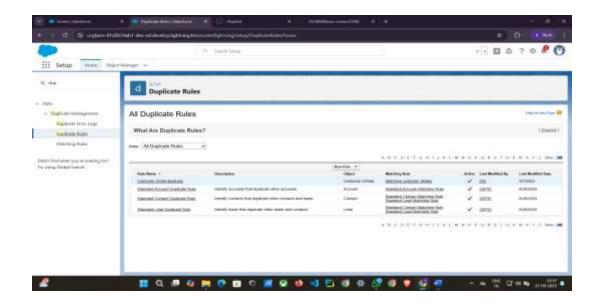


Validation rule

• Matching rule to an Customer details Object

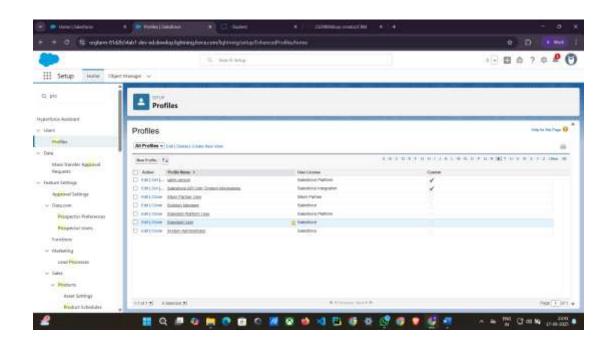


• Duplicate rule to an Customer details Object



Profiles

Manager Profile

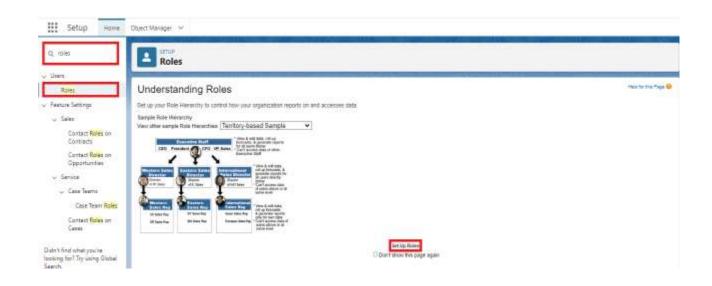


• sales person Profile

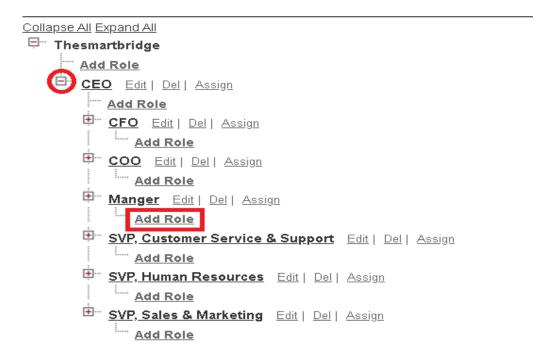


Sales person Profile

• Manager Role and another roles

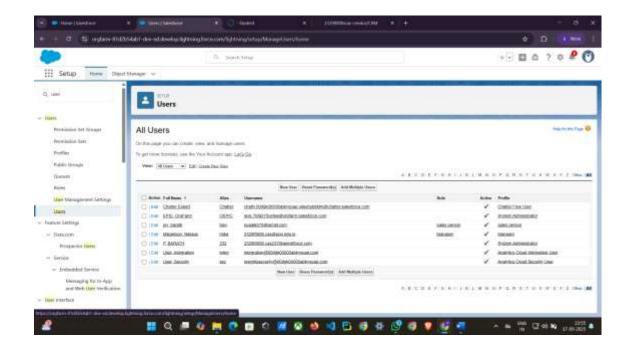






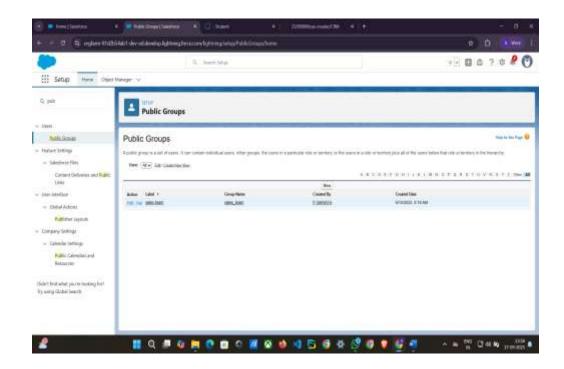
Users

• User and another user

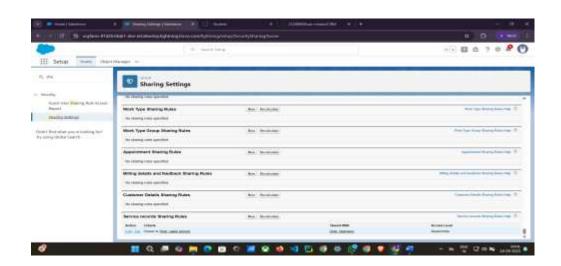


Public groups

• New Public Group

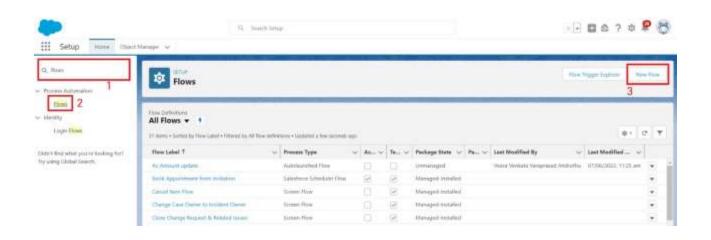


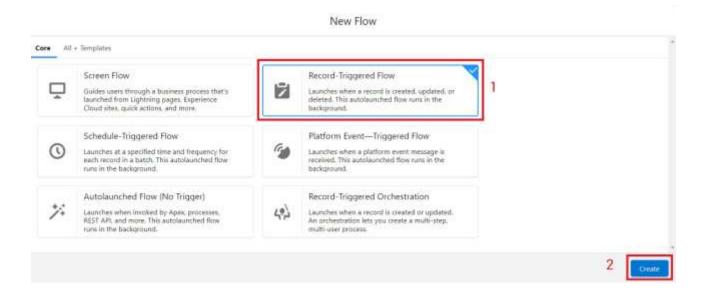
Sharing Setting

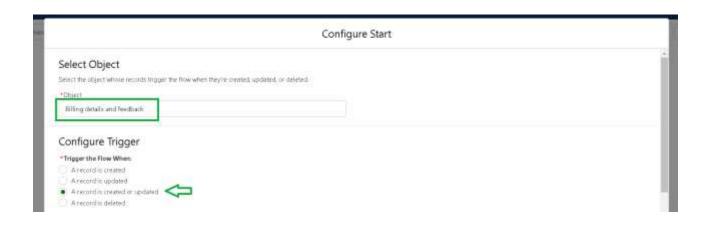


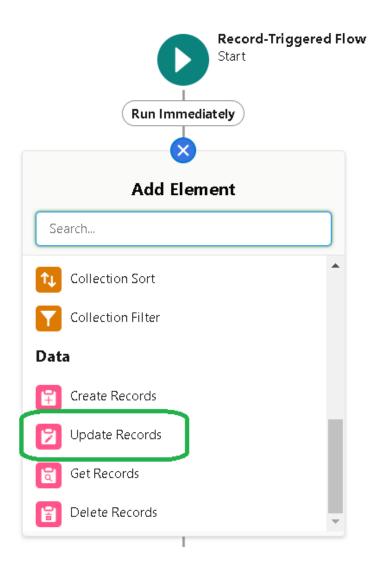
Flows

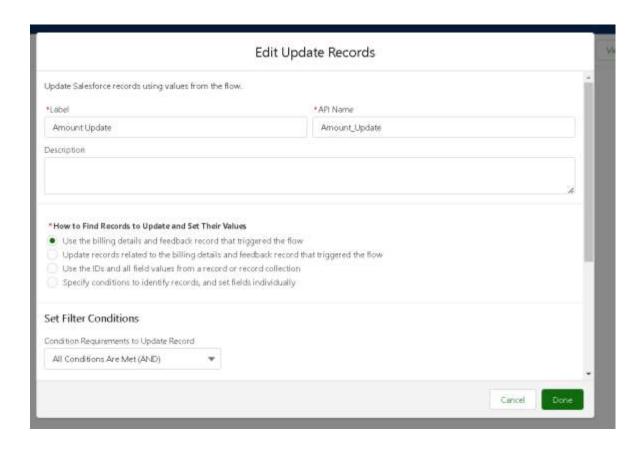
flow and another flow

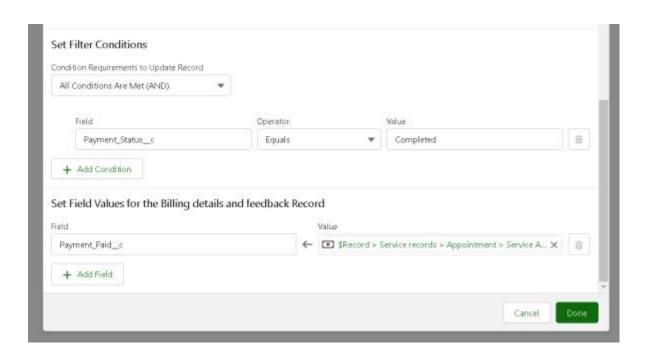












Apex Trigger

Apex handler

```
Accordistributed and Americal Contractors broker ages * 1
 Code Coverage Notes + API Minimum 12 (e. 12)
 13+
                 else if(app.Maintenance_service_c == true && app.Replacement_Parts_c == true){
 14
                     app.Service_Amount_c = 8000;
 15
 16 *
                 else if(app.Repairs_c == true && app.Replacement_Parts_c == true){
 17
                     app.Service_Amount_c = 7888;
 18:
 19 *
                 else if(app.Maintenance_service_c == true){
 20
                     app.Service_Amount_c = 2000;
 21
                 else if(app.Repairs_c == true){
 22+
 23
                     app.Service_Amount_c = 3000;
 24
 25 +
                 else if(app.Replacement_Parts_c == true){
 26
27
                     app.Service_Amount_c = 5000;
 28
 29
 30
31 }
```

```
partners a lateral to a
1 - public class AmountDistributionHandler {
2.4
       public static void amountDist(list(Appointment_c) listApp){
          list(Service_records_c) serlist = new list (Service_records_c){};
4
*
1.
           for(Appointment_c app : listApp){
              if(app.Maintenance_service_c == true && app.Repairs_c == true && app.Replacement_Parts_c == true)(
1
                   app_Service_Asount_c = 18880;
15-
10 -
              else if(app.Maintenance_service_c ** true && app.Hepairs_c ** true){
                  app. Service_Amount_c = 5000;
11.
              else if(app.Maintenance_service_c == true && app.Replacement_Parts_c == true){
14
                  app.Service_Amount_c = 8000;
15
16×
               else if(app.Repairs_c == true && app.Replacement_Parts_c == true){
                  app.Service Amount c = 7000;
18
19×
               else if(app.Maintenance_service_c == true){
30
                  ann Service beauty c = 1000
```

```
The fife Debug Tot Workspace Page (

AmountDistribution.aget | AmountDistribution on Appointment_c (before insert, before update) {

2

3 * if(trigger.isbefore && trigger.isinsert || trigger.isupdate) {

AmountDistributionHandler.amountDist(trigger.new);

5

6

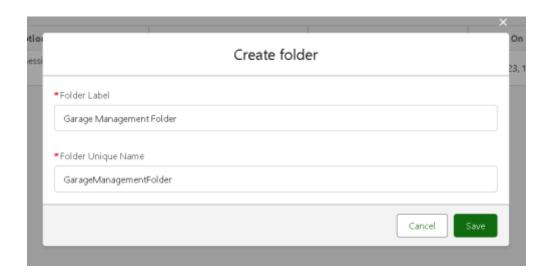
}

7

8
```

Reports

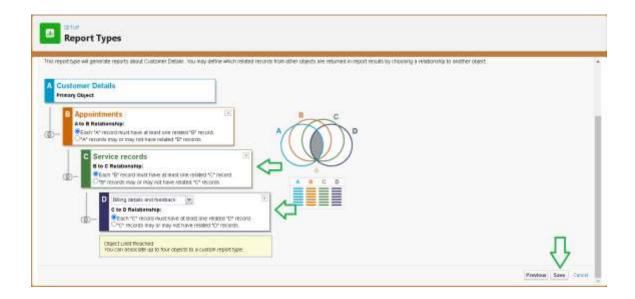
• report folder



• Sharing folder



• Report Type

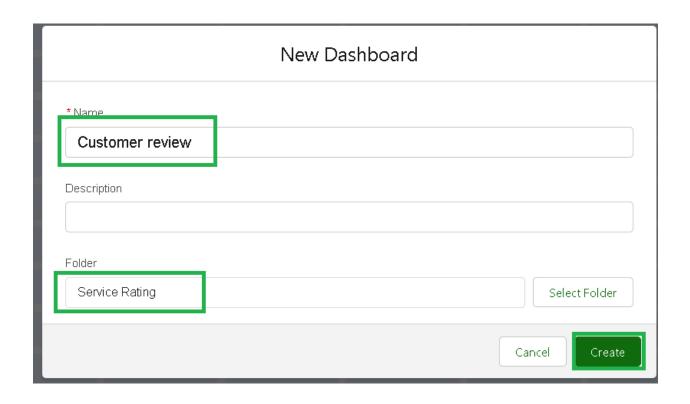


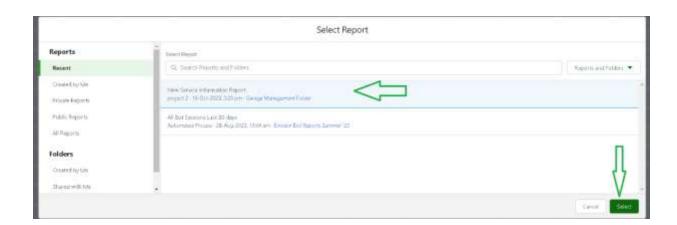
Report



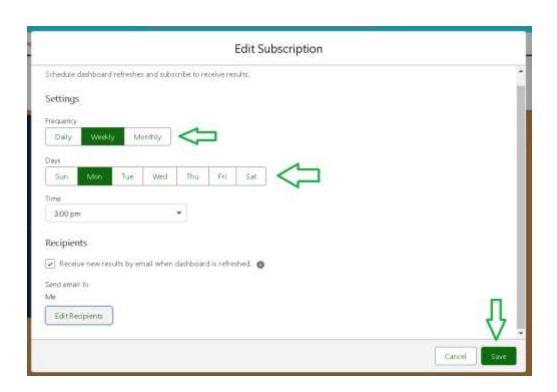
Dashboards

Dashboard Folder



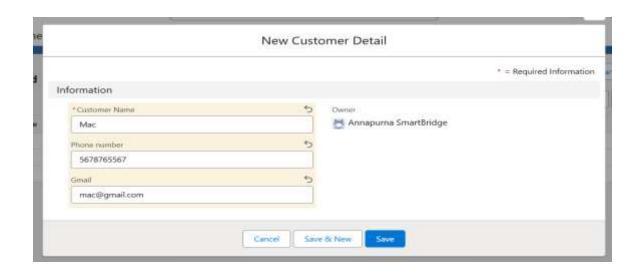


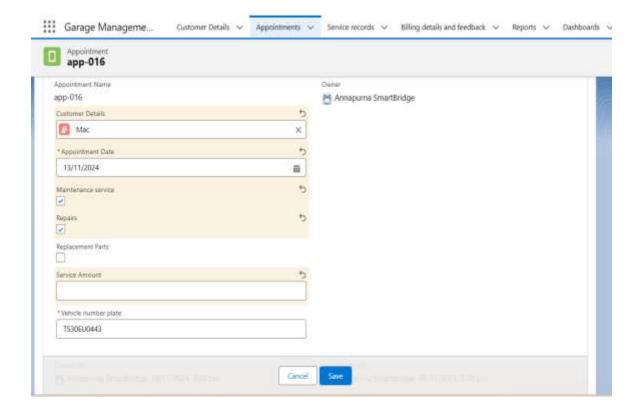


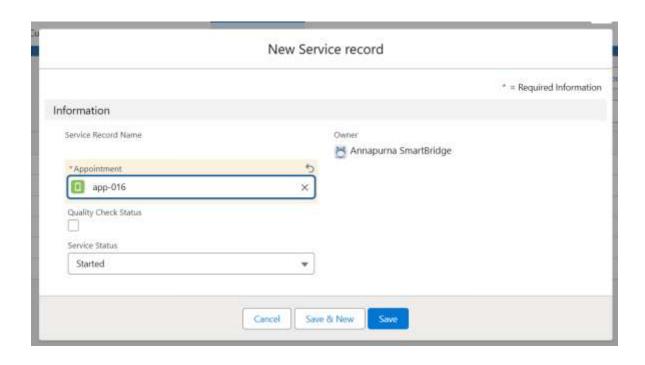


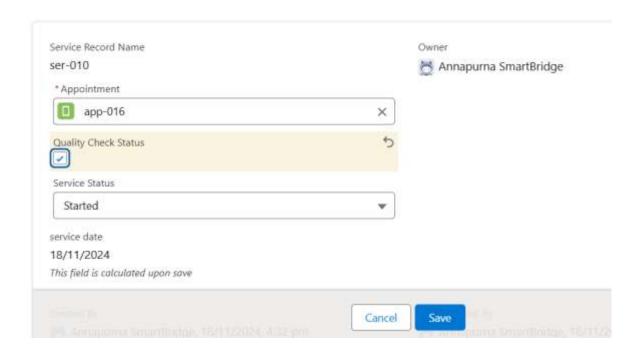
User Adoption

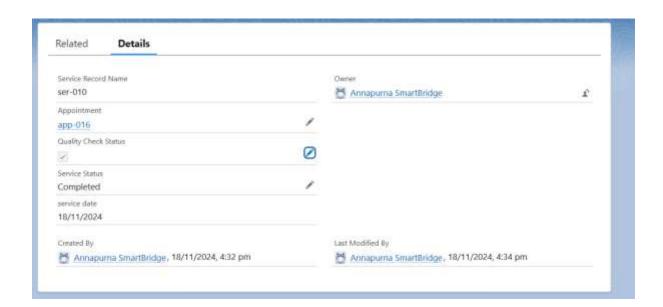
records











CONCLUSION:

The Garage Management System successfully streamlines the daily operations of automobile service centers by digitizing customer management, vehicle tracking, service scheduling, inventory control, and billing processes. It reduces manual effort, minimizes errors, and ensures efficient workflow for both staff and management. By providing accurate records, timely reminders, and quick service delivery, the system improves overall productivity and enhances customer satisfaction. This project demonstrates how automation in garages can lead to better resource utilization, cost savings, and long-term business growth.

APPENDIX:

SOURCE 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 <math>c == true){
         app. Service Amount c = 5000;
       else if(app.Maintenance service c == true &\& app.Replacement Parts <math>c == true)
         app. Service Amount c = 8000;
       else if(app.Repairs c == true \&\& app.Replacement Parts <math>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:

Code:

```
trigger AmountDistribution on Appointment_c (before insert, before update) {
   if(trigger.isbefore && trigger.isinsert || trigger.isupdate) {
        AmountDistributionHandler.amountDist(trigger.new);
   }
}
```